



2024 State of the District Report

The following is the third annual State of the District report which will be delivered during the May Board meeting each year. The purpose of this report is to provide an annual snapshot of the condition of important aspects of the business.

- ADEQ update
 - PFAS/PFOA testing, and remediation is the latest new requirement from ADEQ. Luckily for the GV Water District none was found during the initial two rounds of testing. We will be required to add annual monitoring but as long as the results are negative, no other action is required.
- Agency reports
 - All agency reports were submitted however one quarterly report was submitted with an incorrect location name which delayed it being entered in the ADEQ system resulting in a late filing violation. Our forms are now pre-filled with the correct information to avoid a re-occurrence.
- Line breaks
 - During fiscal year 2023-2024, we experienced four service line leak repairs and 3 main line breaks. In all but one case, the breaks were repaired quickly with minimal water loss or additional damage due to the leak. Pavement repairs were also completed within two weeks of the leak repairs. Unfortunately, a leak on Mariquita on August 8, 2023, resulted in the loss of over 1,000,000 gallons of water over night and there was a write up in the newspaper. The District continues to work to minimize water loss as was noted in a later article in the *Green Valley News*, our water loss percentage overall is far lower than the other area water providers.
- Current projects
 - The capital projects focus for this year continues to be upgrading our meters and activating the FlexNet equipment for reading. We completed the process of removing all manually read meters and now all are read using radios either reporting to the antenna or via drive-by. The existing SR2 meters will be upgraded to IPERL meters and new MXUs will replace older style radios. The programming work to connect the meter reading software to the billing software has been more time-consuming than expected but is moving forward. We had difficulty receiving meters and radios again this year and needed to carry over some approved funds to the following fiscal year.
 - Several PLC boards/cards as well as cooling fans for control cabinets were replaced during the summer. Some of the parts were well over 10 years old and just quit working.
 - Our water storage tanks were inspected last September, and no deficiencies were found.
 - New security cameras were installed at all remote sites. The existing cameras were no longer supported and had stopped working.
 - The antenna mounted on the pole at Calle Tres Booster was wired into the panel and is now being used as a repeater to improve the signal for SI well giving us consistent signal for the first time.

- Field staff installed a permanent ramada at the Cotonia well yard so the electronic controls and A/C unit would be shaded rather than in direct sun.
- The Booster station at Calle Tres is currently being upgraded to allow two 7 1/2hp motors to alternate carrying the load rather than relying on just one motor. A new panel with a new PLC is being installed, programming in SCADA will be updated, all infrastructure will be painted, and a new block wall will be installed. Project should be completed by the end of June.
- Future projects
 - The District will continue to focus on upgrading meters and radio units for the next year until all customers have equipment which is compatible with the FlexNet system for meter reading.
 - Work will continue to determine if linking the existing SI well to the domestic water system is a viable option to provide additional capacity and redundancy when well is not being used by the golf course.
 - WLB Engineering will be making recommendations for upgrades for the Canoa Ranch booster station as well as storage tanks and boosters for future development to the south.
 - To improve system pressures in our existing distribution system, upsizing the water main at Avenida De La Gloria and Ramita from 6" to 12" will be planned as well as upsizing the main on the south side of Moon River from 6" to 8".
- Quarterly equipment maintenance
 - Quarterly maintenance/inspections are currently being performed on all well pumps, generators, backhoe, and dump trailer. Monthly inspections are performed on all fleet vehicles and smaller equipment.
- Static water level at Cotonia Well (Water levels are checked on a quarterly basis by Freeport personnel)
 - In May 2024, static level was 290 ft In May 2023, static level was 286 ft
- Static water level at Well 2
 - In May 2024, static level was 234 ft In May 2023, static level was 232 ft
- Static water level at SI Well
 - In May 2024, static level was 266 ft Level was taken at this location in 2023
- Arsenic level
 - Natural arsenic level at Cotonia well is 16 parts per billion. The allowable limit for drinking water is 10 parts per billion so our raw water passes through the treatment plant to remove arsenic. Water leaving the treatment vessels is free of arsenic so there is a 40% blend ratio set up so that the water going into the distribution system has a level of between 7 and 8 parts per billion.
 - We anticipate doing a media change out for the front three vessels at some point this summer/fall depending on the level of breakthrough seen during monthly testing.
- Chlorine levels
 - As a ground water system that is not under the influence of surface water, the District is not required to add chlorine to the water. However, we do add a small amount of chlorine after the arsenic removal process to ensure there is no bacteria within the piping system. Water is tested throughout the system each month for the presence of total coliform bacteria and there have been no detections for many years. The chlorine level throughout the system is kept between .4 and .7.
- New Water Services
 - No new water services were installed this year but two new homes in the Alamos were activated this year on existing service lines.
 - There have been meetings to discuss development in 27South and Blocks 1-5 south of the Escondido Wash. We are updating our system modeling to show pressures throughout the entire area and are

planning where to have storage and booster capacity in the new sections, but until Pima County installs a sewer line, they cannot begin development.