Groundwater Condition

REPORT | SANTA CLARA COUNTY

May 2018

- Groundwater Storage: Total storage at the end of 2018 is predicted to fall within Stage 1 (Normal) of the District's Water Shortage Contingency Plan.

- Santa Clara Plain:

    - The April 2018 managed recharge estimate is 5,900 acre-feet. The year-to-date managed recharge estimate is 23,800 acre-feet, or 196% of the five-year average.
    - The March 2018 groundwater pumping estimate is 4,200 acre-feet. The year-to-date pumping estimate is 13,700 acre-feet, which is 89% of the five-year average.
    - The groundwater level in the Santa Clara Plain (San Jose) index well is about 5 feet higher than last April and 26 feet higher than the five-year average.

- Coyote Valley:

    - The April 2018 managed recharge estimate is 900 acre-feet. The year-to-date managed recharge estimate is 3,500 acre-feet, or 117% of the five-year average.
    - The March 2018 groundwater pumping estimate is 900 acre-feet. The year-to-date pumping estimate is 2,400 acre-feet, which is 114% of the five-year average.
    - The groundwater level in the Coyote Valley index well is about 11 feet lower than last April and 4 feet higher than the five-year average.

- Llagas Subbasin:

    - The April 2018 managed recharge estimate is 2,000 acre-feet. The year-to-date managed recharge estimate is 6,700 acre-feet, or 171% of the five-year average.
    - The March 2018 groundwater pumping estimate is 2,500 acre-feet. The year-to-date pumping estimate is 7,400 acre-feet, which is 122% of the five-year average.
    - The groundwater level in the Llagas Subbasin (San Martin) index well is about 8 feet lower than last April and 17 feet higher than the five-year average.

Contact Us For questions, contact **Bassam Kassab** at **(408) 630-2091**

Santa Clara Valley Water District

Groundwater Recharge

Compared to the April average of the last five years (2013-2017), the estimated managed recharge for April 2018 is higher for all three groundwater areas: the Santa Clara Plain, the Coyote Valley, and the Llagas Subbasin. Managed recharge is dependent on several factors, including water availability, regulatory requirements, and facility maintenance schedules. Figures 1, 2, and 3 compare monthly managed recharge in 2018 to the five-year average.

Figure 1 - Estimated Managed Recharge in the Santa Clara Plain

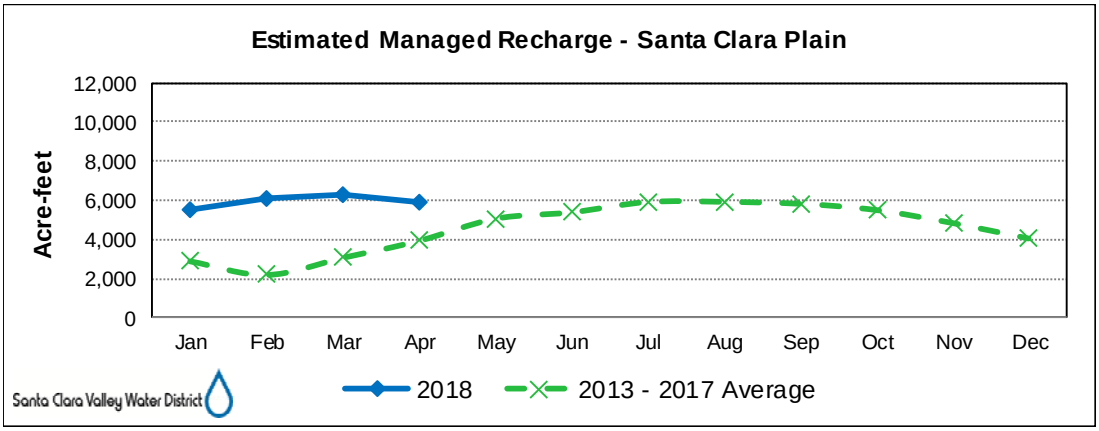


Figure 2 - Estimated Managed Recharge in the Coyote Valley

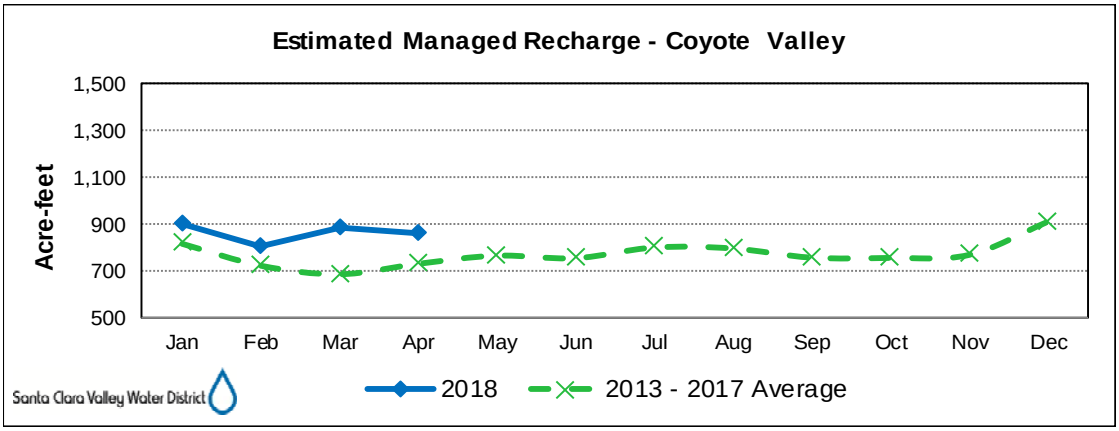
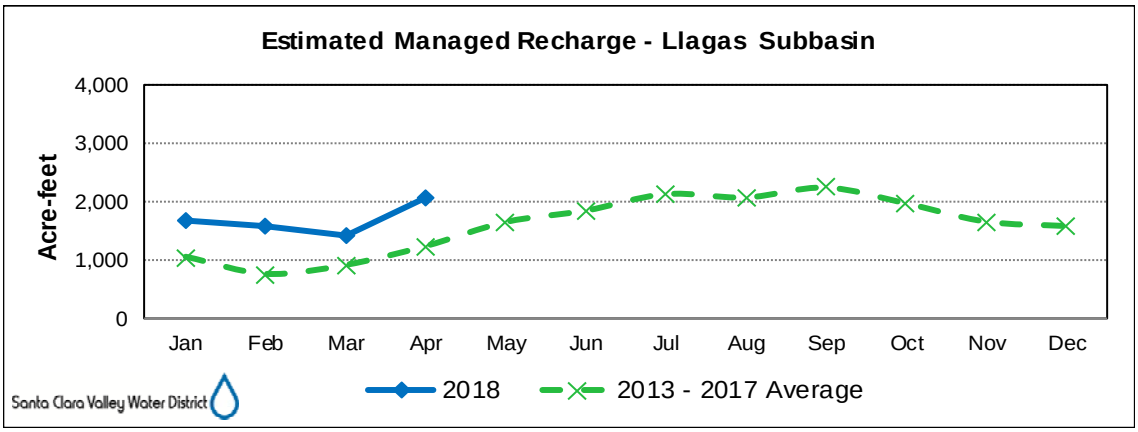


Figure 3 - Estimated Managed Recharge in the Llagas Subbasin



Groundwater Pumping

Estimated pumping for March 2018 (the most recent month with pumping data available from retailers) is lower than the March average of the last five years (2013-2017) for the Santa Clara Plain and higher for the Coyote Valley and the Llagas Subbasin. Figures 4, 5, and 6 compare monthly estimated groundwater pumping through March 2018 to the five-year average.

Figure 4 – Estimated Santa Clara Plain Pumping

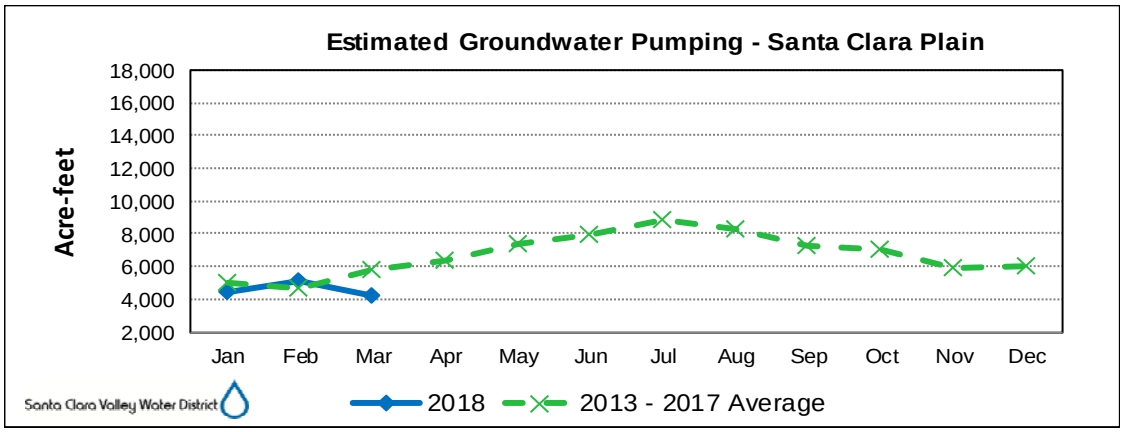


Figure 5 – Estimated Coyote Valley Pumping

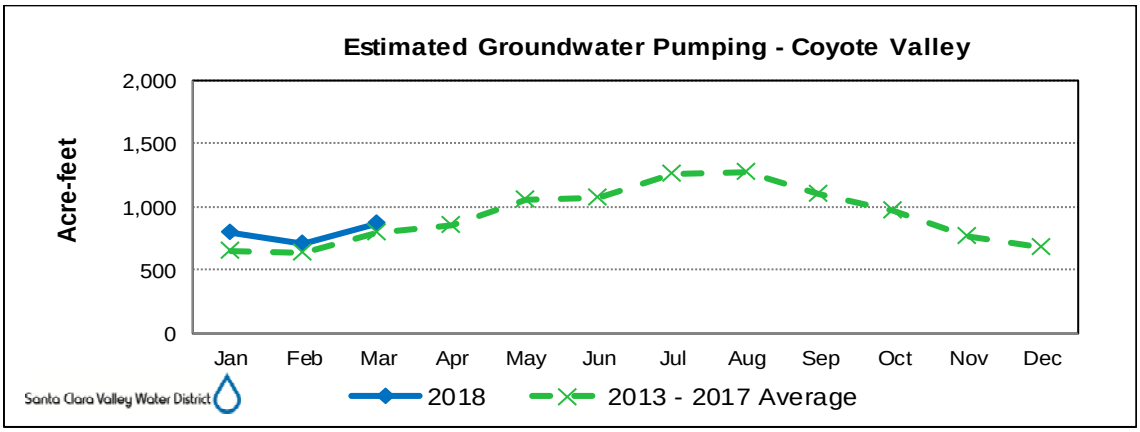
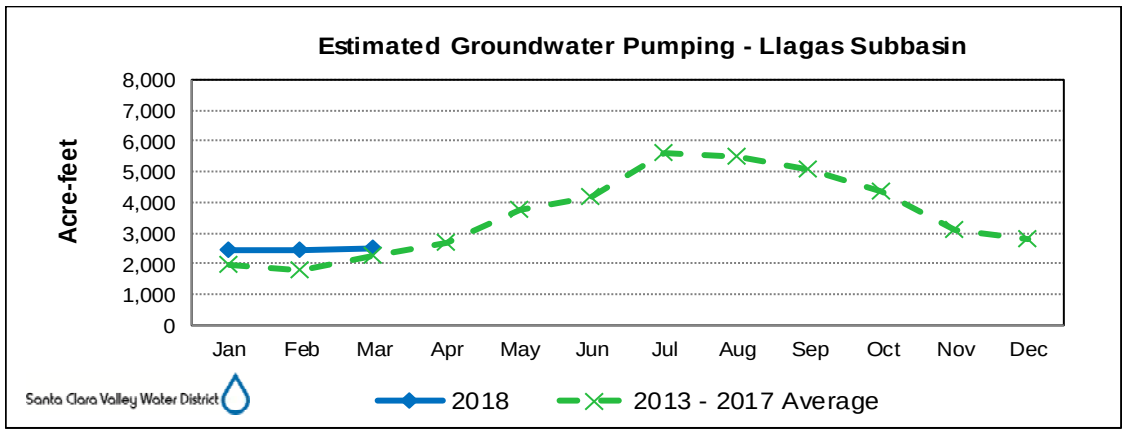


Figure 6 – Estimated Llagas Subbasin Pumping



Groundwater Levels

Groundwater levels at selected monitoring wells (Figure 7) are compared to the groundwater levels of April 1987 (a dry year), April 2004 (a normal year), and the five-year average of April measurements for 2013-2017. This information is presented in individual well groundwater hydrographs in Figures 8 through 18.

April 2018 groundwater levels were higher than March 2018 levels in two index wells, lower in four wells, about the same in four wells, and one well lacks April 2018 data. From April 2017 to April 2018, five wells showed water level increases ranging from 2 to 6 feet, five wells showed water level decreases from 1 to 11 feet, and one well lacks April 2018 data. The April 2018 levels were higher than April 2004 levels by 1 to 24 feet in nine wells, one well lacks April 2018 data, and one well lacks 2004 data. April 2018 levels were higher than the five-year average of April measurements in 10 index wells by 4 to 37 feet and one well lacks April 2018 data. April 2018 groundwater levels were higher than April 1987 levels in 10 index wells and one well lacks April 2018 data.

Figure 7 - Location of Selected Monitoring Wells

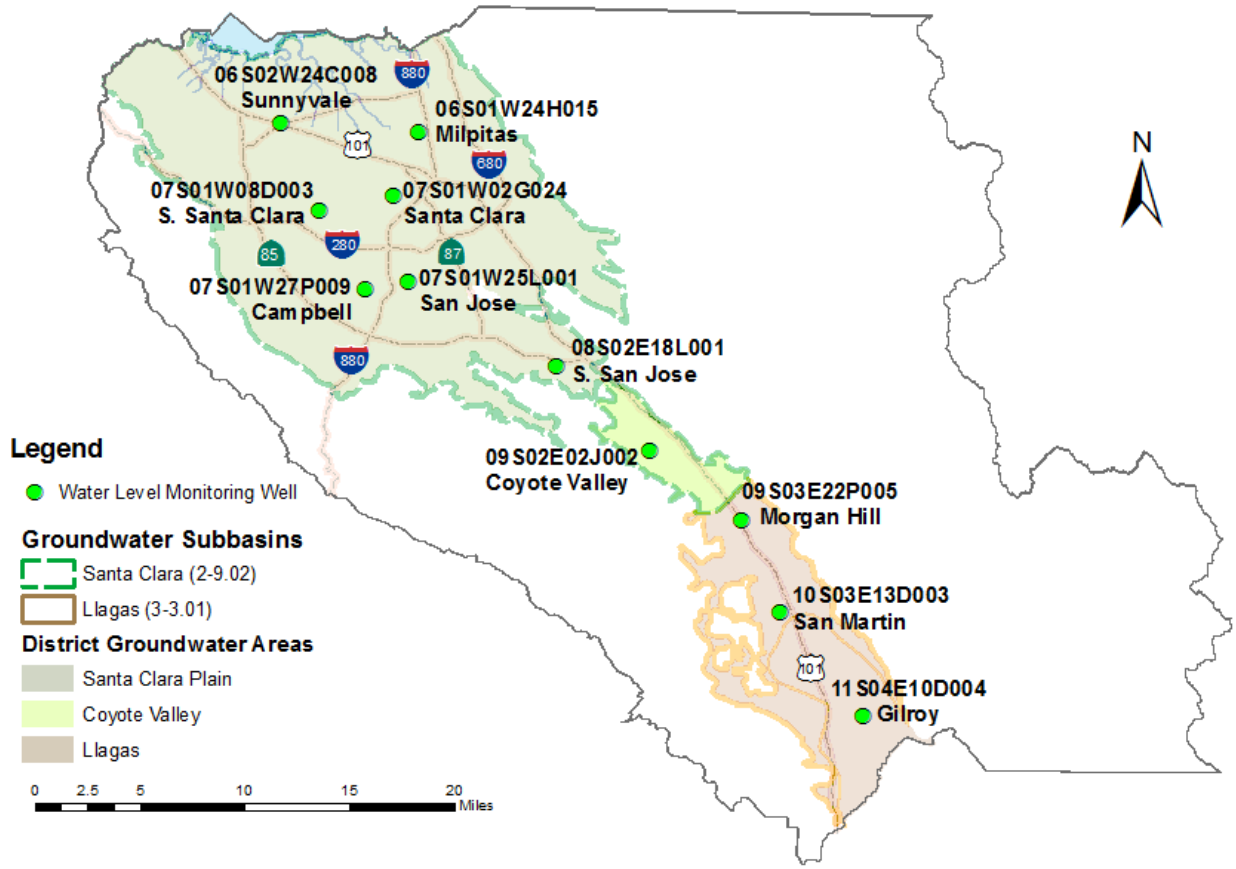


Figure 8 - Milpitas Well Hydrograph

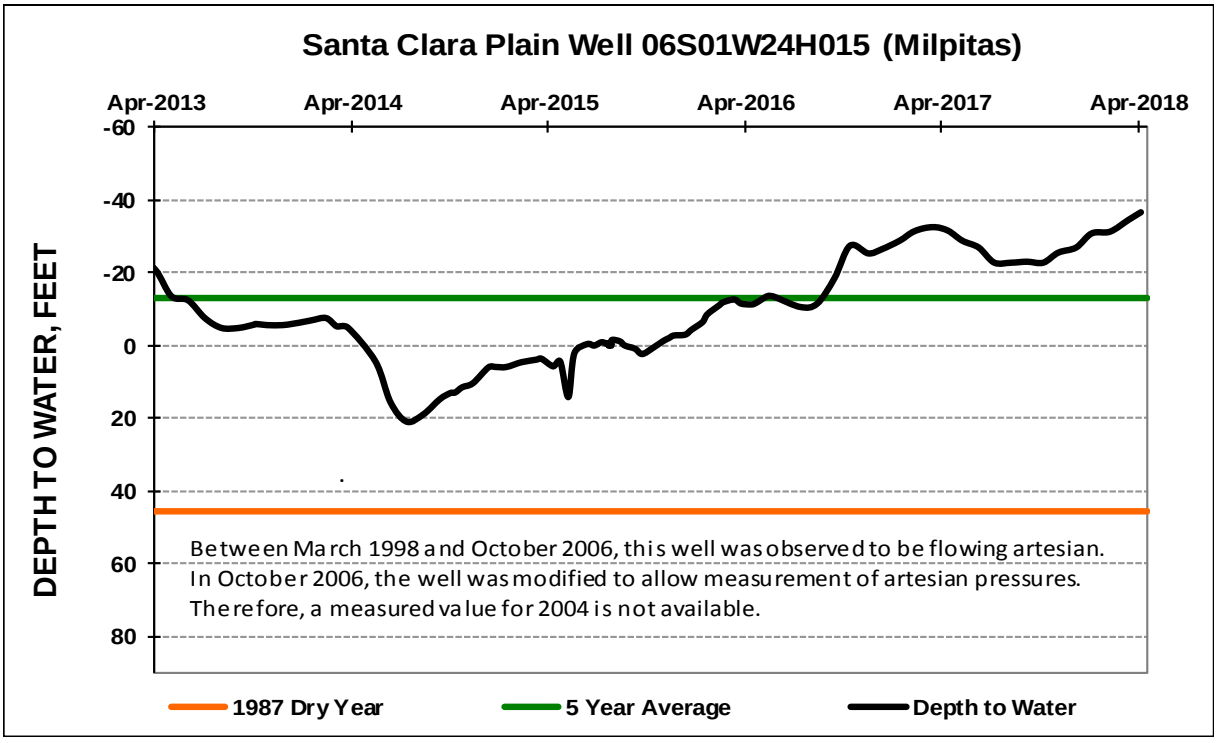


Figure 9 – Sunnyvale Well Hydrograph

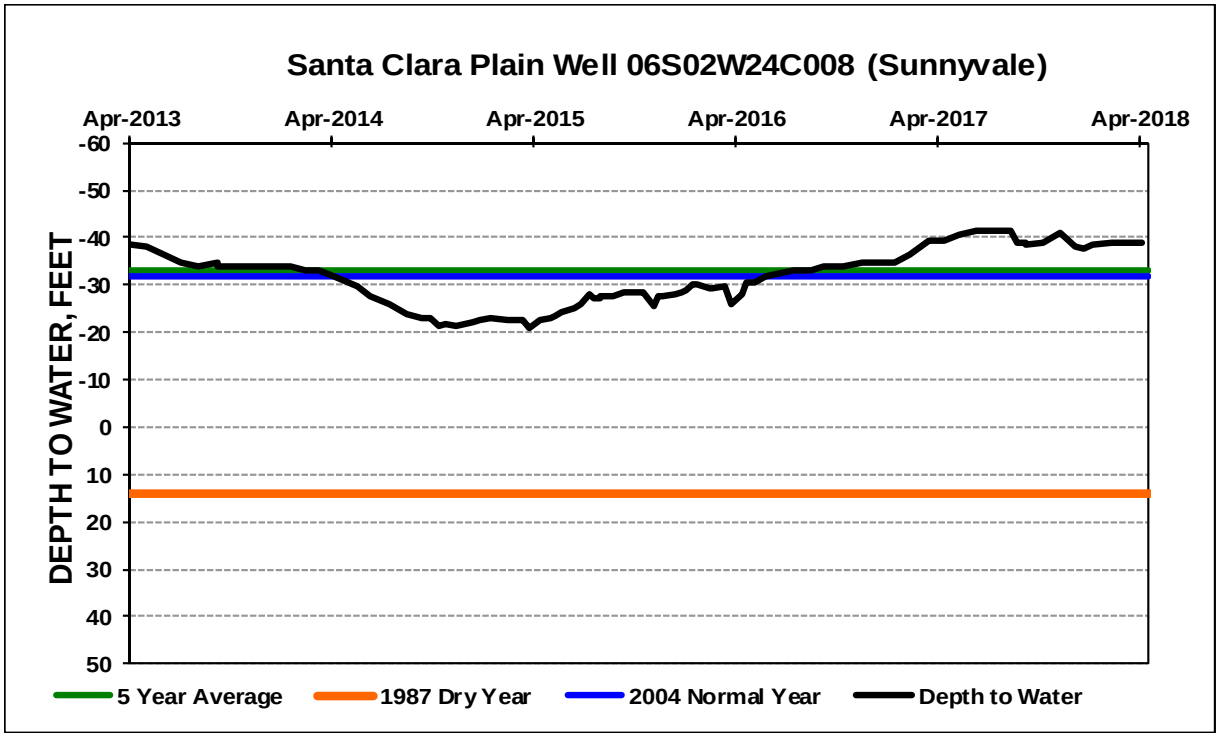


Figure 10 - San Jose Well Hydrograph

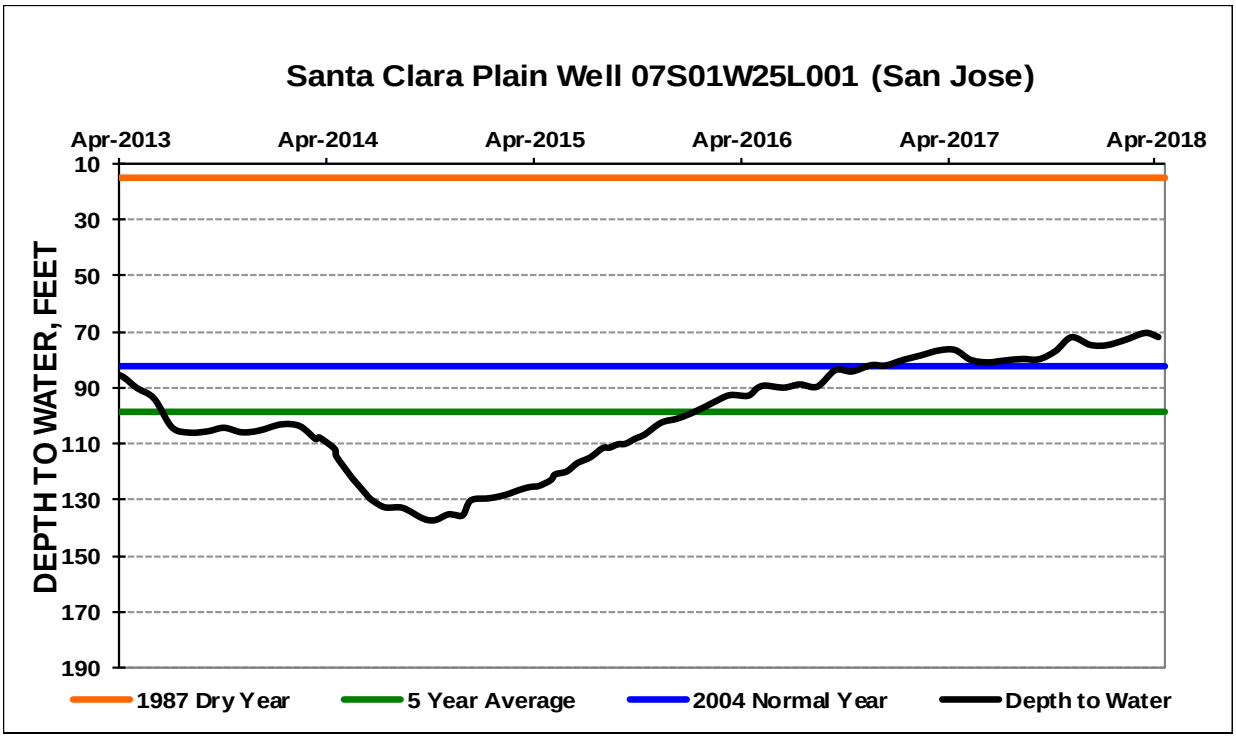


Figure 11 - Santa Clara Well Hydrograph

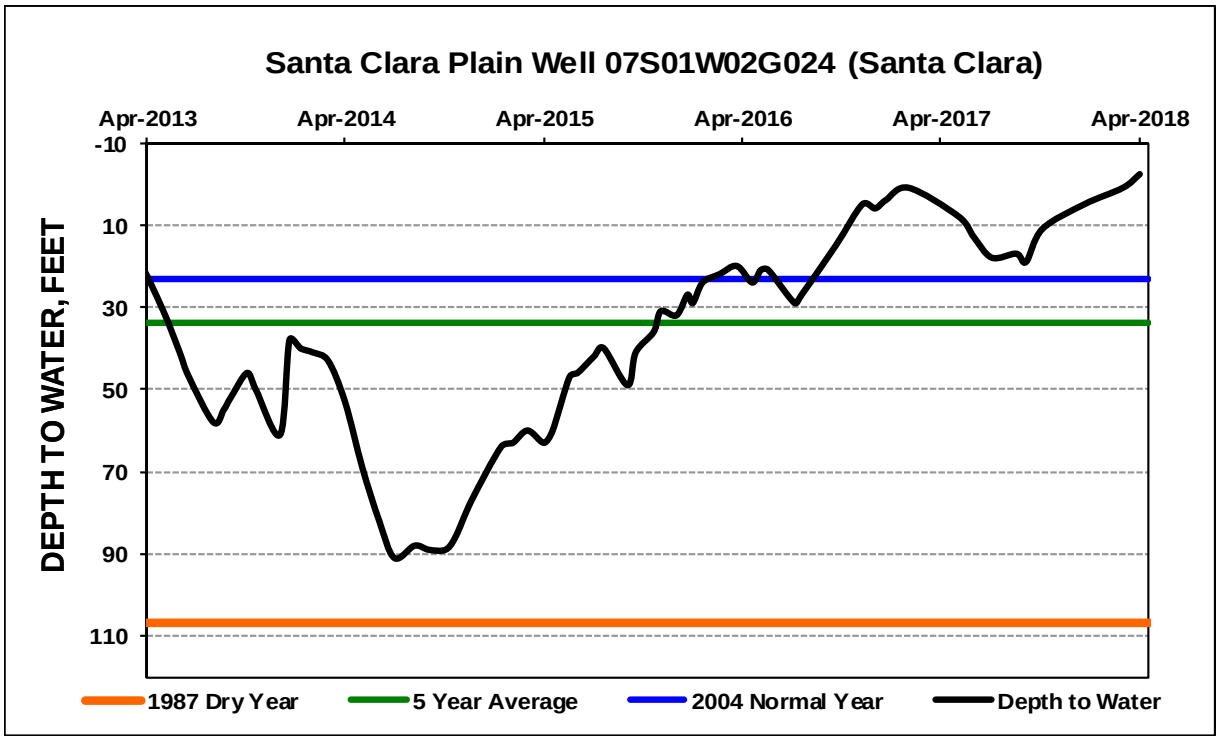


Figure 12 - South Santa Clara Well Hydrograph

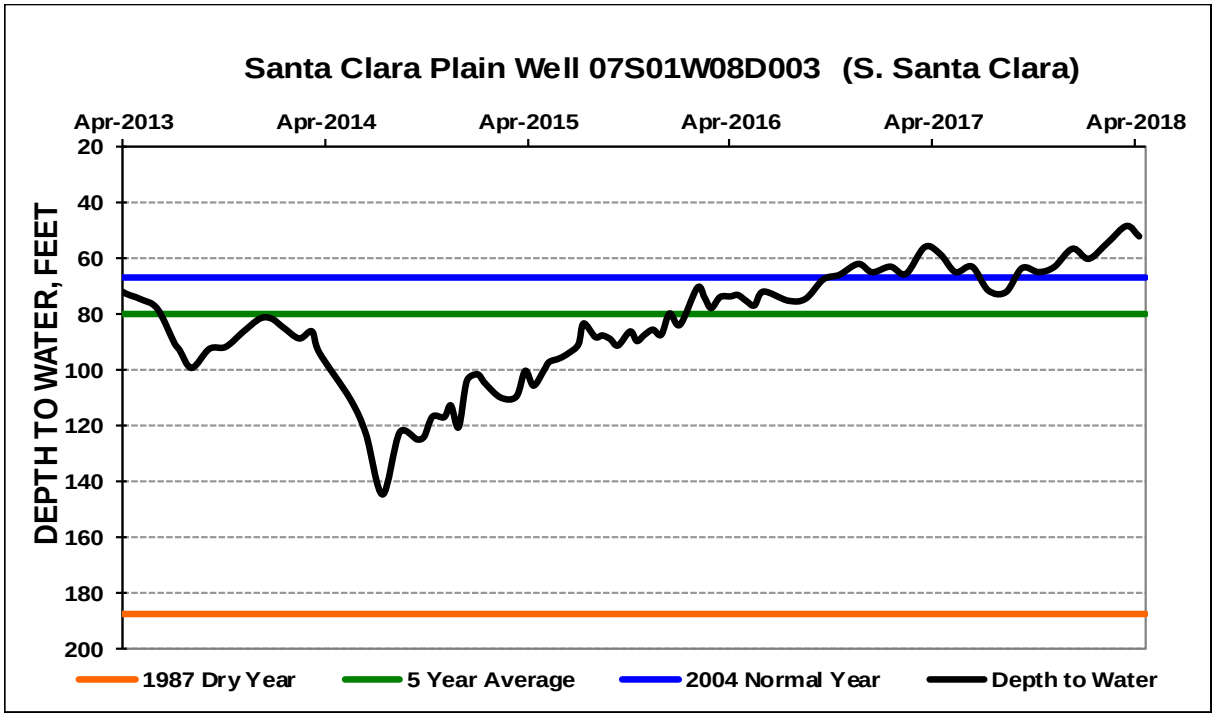


Figure 13 - Campbell Well Hydrograph

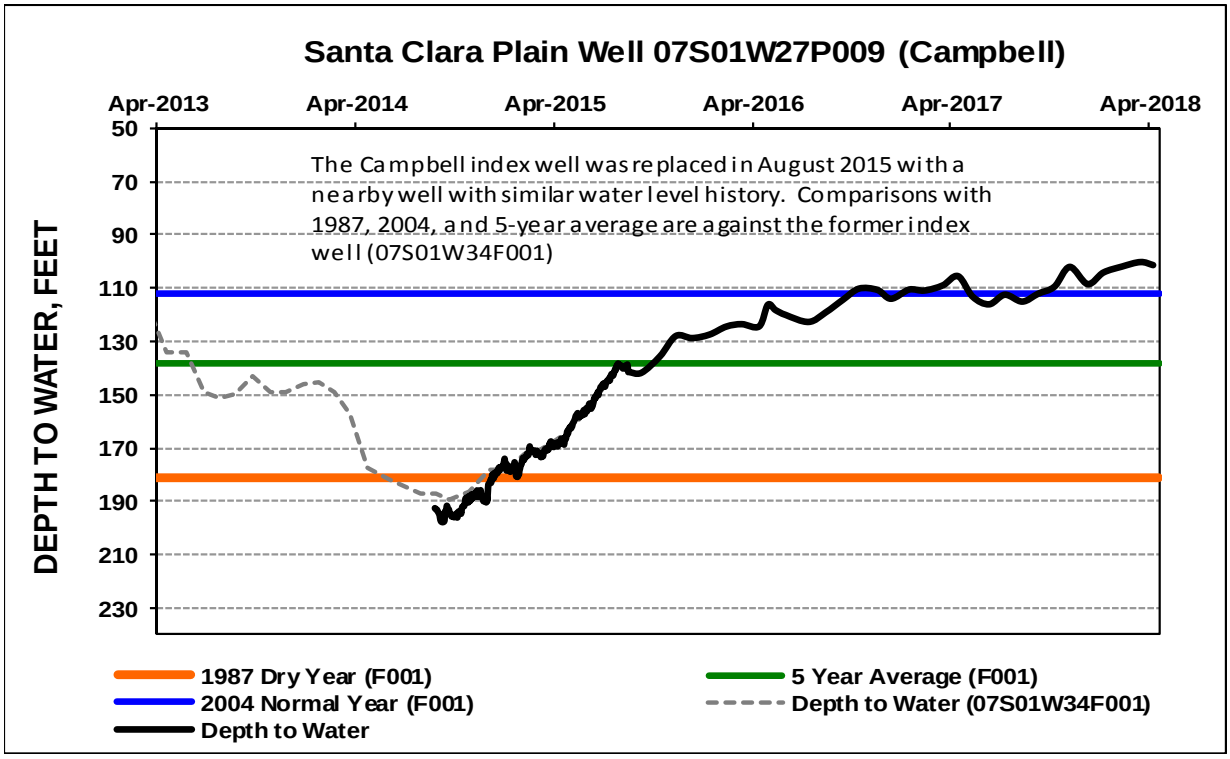


Figure 14 - South San Jose Well Hydrograph

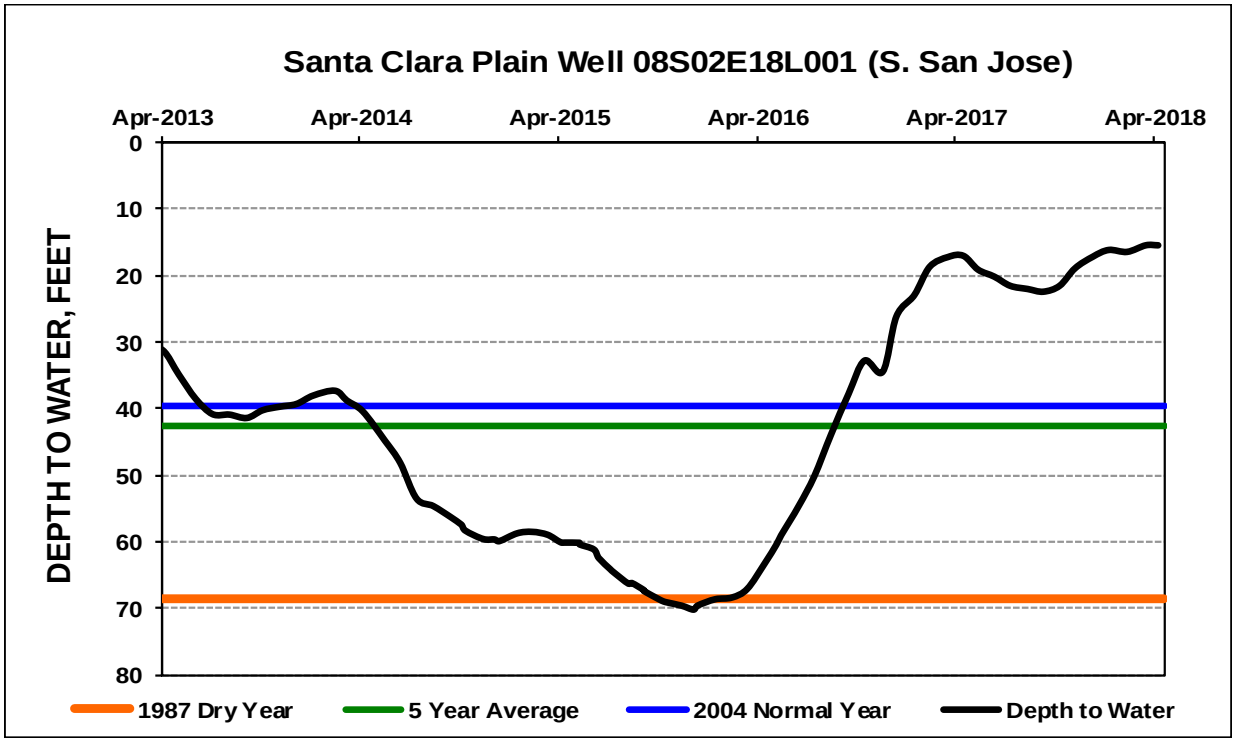


Figure 15 - Coyote Valley Well Hydrograph

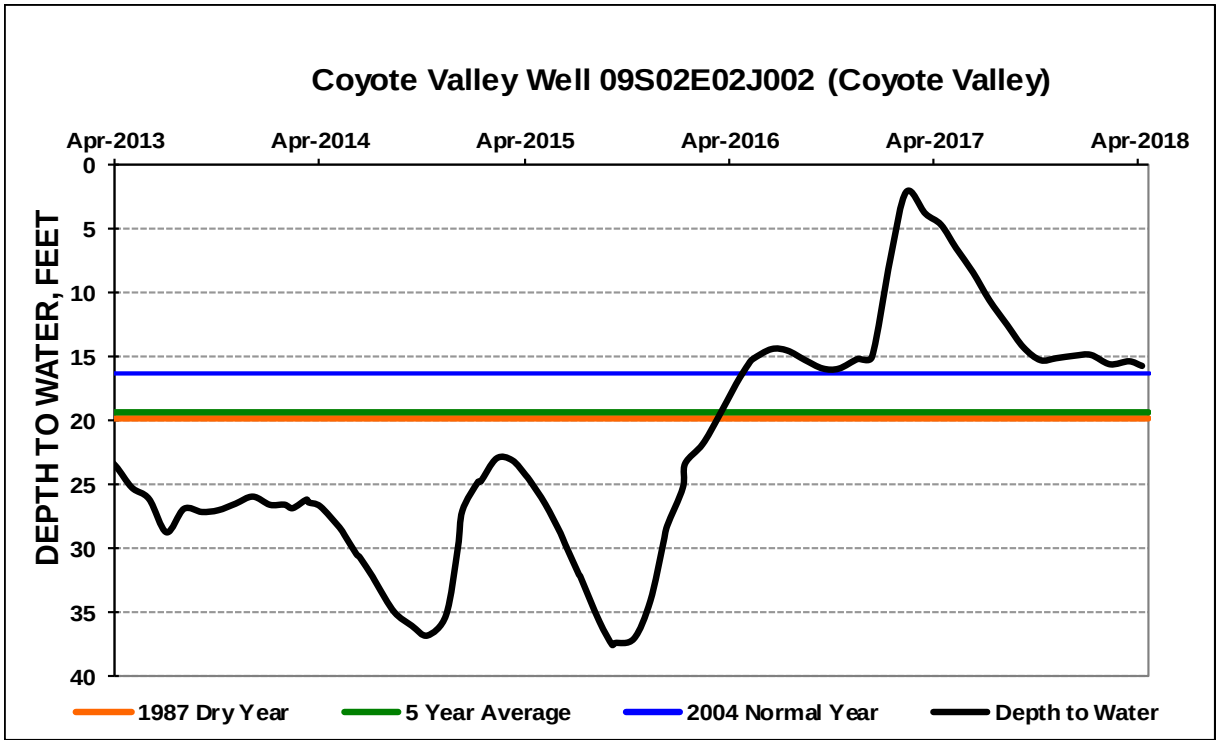


Figure 16 - Morgan Hill Well Hydrograph

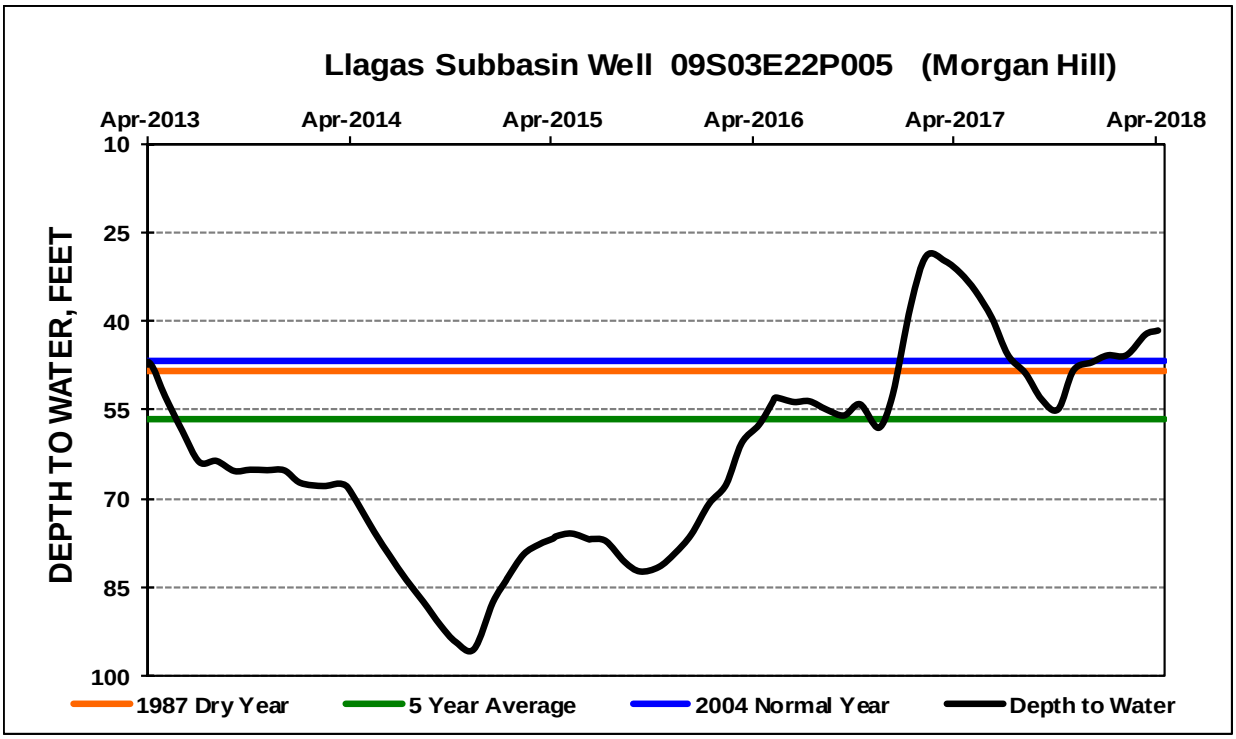


Figure 17 - San Martin Well Hydrograph

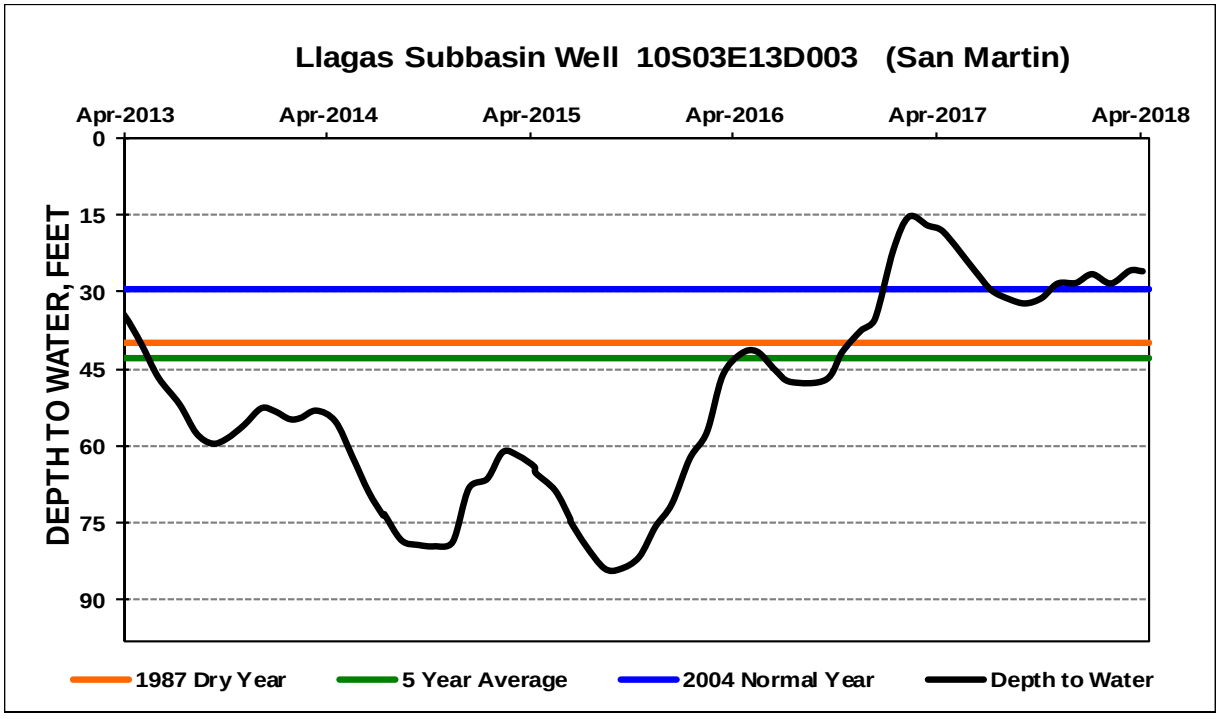


Figure 18 - Gilroy Well Hydrograph