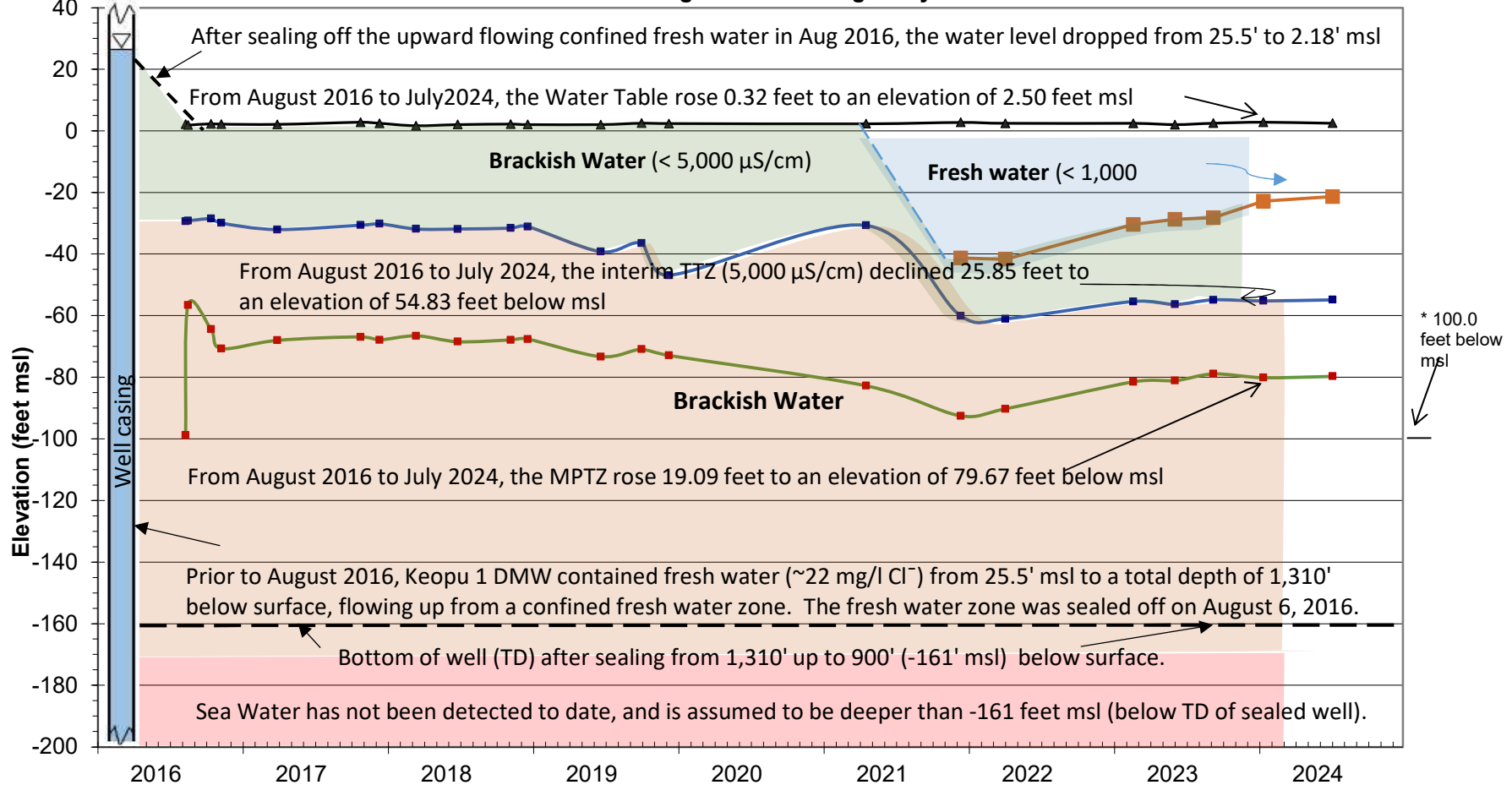


## Keopu 1 Deep Monitor Well, Hawaii (8-3858-001)

**Fluctuations in the Water Table, Top of Transition Zone (TTZ), Midpoint of Transition Zone (MPTZ), and Sea Water from August 2016 through July 2024**



Note: In June 2019, the bottom 20 feet of the solid casing in this well was perforated to allow the circulation and measurement of the top of the fresh water lens.

—■— 5,000uS/cm - RBR 12895 —■— MPTZ - RBR 12895 —▲— Water Levels —●— Sea Water —◆— TTZ (1,000  $\mu\text{S}/\text{cm}$ ) —■— Top of Transition Zone (ft msl) - 1000  $\mu\text{S}/\text{cm}$

**Notes:** (1) Until December 2021, minimum conductivity in this well was greater than 1,000  $\mu\text{S}/\text{cm}$ , therefore an interim TTZ of 5,000  $\mu\text{S}/\text{cm}$  was used, TTZ = 1,000 $\mu\text{S}/\text{cm}$ ; MPTZ = 25,000  $\mu\text{S}/\text{cm}$ ; (2) Fresh Water < 220 mg/L  $\text{Cl}^-$ , Brackish Water 220 mg/L  $\text{Cl}^-$  to 19,399 mg/L  $\text{Cl}^-$ , Sea Water  $\geq 19,400 \text{ mg/L Cl}^-$ ; (3) RBR 12895 = RBR Global CTD (Specific Conductivity); (4) msl = mean sea level.

\* Since August 2016, the MPTZ rose 19.09 feet to an elevation of -79.67 feet below msl, where it is above a calculated Ghyben-Herzberg equilibrium elevation of -100.0 feet below msl, relative to the Water Table measured at 2.50 feet above msl.