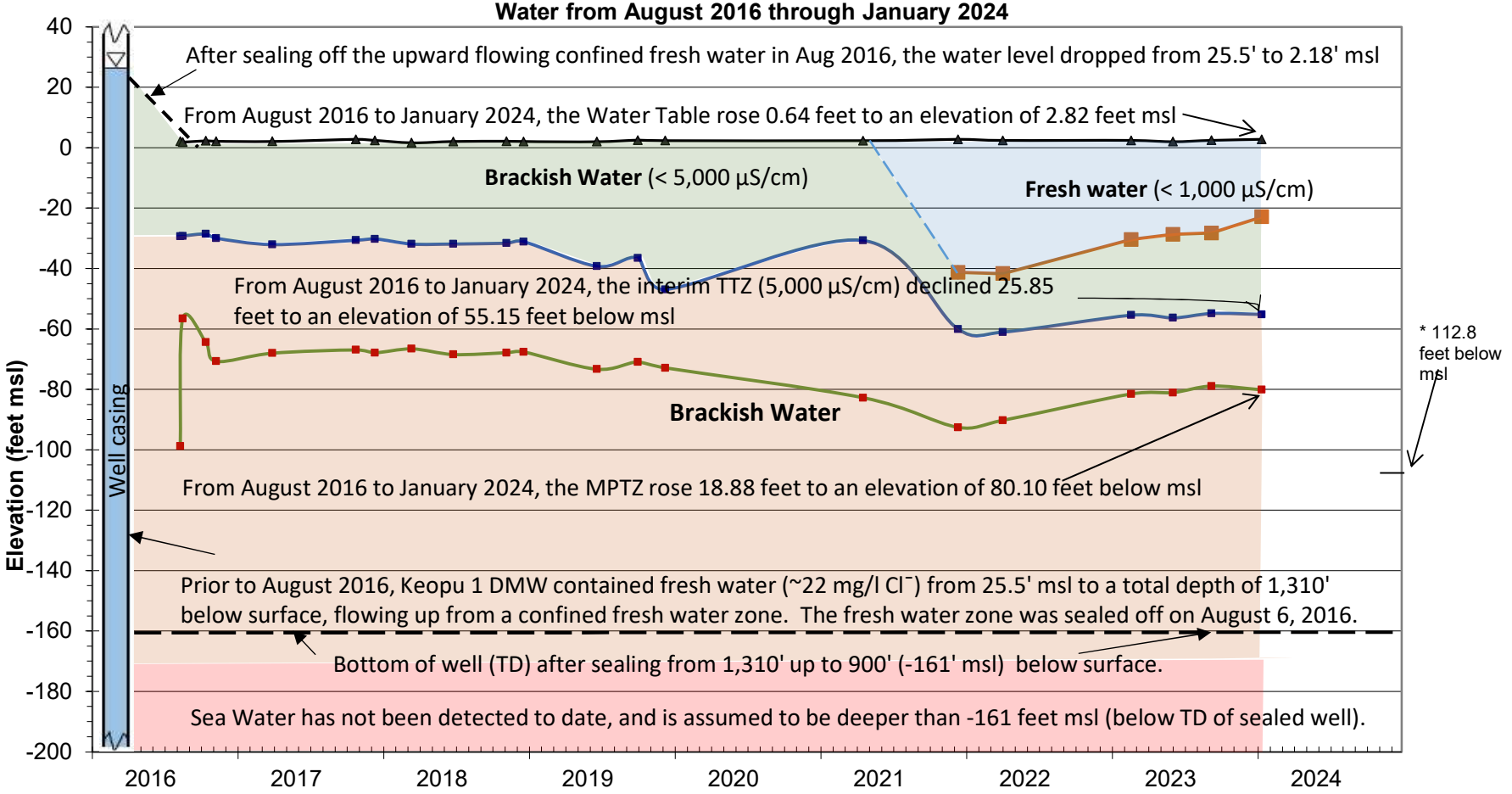
Keopu 1 Deep Monitor Well, Hawaii (8-3858-001)

Fluctuations in the Water Table, Top of Transition Zone (TTZ), Midpoint of Transition Zone (MPTZ), and Sea Water from August 2016 through January 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 µS/cm) — Top of Transition Zone (ft msl) - 1000 µS/cm

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

* Since August 2016, the MPTZ rose 18.66 feet to an elevation of 0.10 feet below msl, where it is above a calculated Ghyben-Herzberg equilibrium elevation of 115.2

last updated 3/6/2024