



Memorandum

Date: July 6, 2022
To: Kimberly Villa – NDM CSA Representative
From: Matt Deussenberry – Water Division Manager
Subject: Issues with NDM well 1

This memo is to inform the county of challenging operating conditions for well 1 at the North Davis Meadows community. On Friday July 1st the city's production supervisor noticed sediment in the garden hose onsite at NDM 1 when the hose was shut off. At that time, the well site was isolated from the distribution system. The city then mobilized a response team with all the resources we had available to attempt to clean the tank. After the water team cleaned as far the equipment would allow, we sounded the water at a static level which was 116'. After running the well for 45 minutes the drawdown was over 77' to 193'. The first screen listed on the drillers log is from 150 to 340'. With the drawdown to 190+ feet, this could be a contributing factor of the increased sediment. The city has provided some recommendations on this memo.

Below is a list of maintenance plans and operational recommendations for the immediate future:

- Due to scheduling and supply chain issues, the city plans to rent equipment to assist in the on-site cleaning effort of the water storage tank.
- Options for peak demand reliability.
 1. Have a water consultant review the original drillers log for an option to lower the pump and column pipe for more reliable pumping compacity.
 2. Hard pipe overland from the golf course standby well to NDM 1 storage tank with a timed operation for filling the tank as needed.

A consultant may want to visit the site to get an understanding of these challenges, which intern may add additional options not noted by the city at this time. Feel free to contact city staff at any time to coordinate county and consultant site visits.