

Emergency Water Well Rehabilitation – Rebawood Drive

Harris County Municipal Utility District No. 132 (“the District”) recently completed an emergency rehabilitation of the water well at Water Plant No. 1, located at 8502 Rebawood. During an approximately five-week period between May 11 and June 16, Water Plant No. 1 was out of service, as the water plant is not able to produce water for the District’s water distribution system without use of its water well. During this time, the District was served entirely by Water Plant No. 2, located at 19441 W. Lake Houston Parkway, and did not open any of the emergency water interconnects with adjoining MUDs.

On May 11, the District Operator, Inframark, noticed a significant increase in vibration at the water well at Water Plant No. 1 and had a vibration analysis performed. The recommendation from the analysis was that the water well pump equipment should be removed from service and further evaluated. On May 18, the Board of Directors of the District approved a proposal from Weisinger, Inc., a water well contractor, to pull and inspect the pump equipment and to televise the water well. The inspection revealed damage to the pump and column assembly caused by sand production over a prolonged period of time, with a recommendation to clean the water well and to replace the pump equipment and column piping.

The Board of Directors subsequently made a finding that an emergency condition existed and that immediate repair to the water well was necessary to prevent “a serious health hazard or unreasonable economic loss to the District”. Weisinger provided the District with a proposal with a scope that included cleaning and wire brushing the well, televising the well upon completion of the cleaning to check for any structural defects within the well, and installation of a new well pump and column piping.

On June 2, the TCEQ confirmed that the events met the requirements of an emergency condition pursuant to the Texas Water Code and authorized the District to proceed with the repairs based on a negotiated bid. The District subsequently approved Weisinger’s proposal and authorized additional payment for a two-week expedited completion of the work to limit low water pressure in the water distribution system due to increased demand during the summer months.

On June 8, Weisinger completed the cleaning of the water well and performed the additional camera survey, which revealed no structural damage to the water well casing and screens. Weisinger proceeded to install the new water well pump and column piping. On June 16, Weisinger informed the District that all testing was complete and that the water well and water plant could be put back in service.

The total cost of the water well rehabilitation project was approximately \$297,000 and was paid out of the District’s general operating funds.

June 30, 2023