



COOPER CITY UTILITIES DEPARTMENT MEMORANDUM

DATE: January 26, 2026

TO: Alex Rey, City Manager

FROM: Akin Ozaydin, P.E., Director of Utilities Department

SUBJECT: Water Plant Well #8

BACKGROUND OF ITEM:

Recently, Water Well #8 experienced a motor failure. After initial testing by our electrician, it was determined that the motor was likely faulty. Based on this assessment, the motor was sent to Condo Electric for further evaluation.

Despite repeated follow-up calls requesting a diagnostic report, the motor remained at Condo Electric's shop for a while with no response or findings provided. Finally, Condo Electric has provided a quote for a new replacement pump in the amount of \$24,575.00 with a lead time of 24 weeks. The Utility Department decided to retrieve the motor and deliver it to another repair facility for inspection.

Within two weeks, IPS completed a full diagnostic evaluation of the motor and pump assembly. Their findings confirmed that the motor was internally seized and deemed unrepairable. During the inspection, IPS also noted abnormal grinding noises coming from within the pump housing.

Approval was then given for IPS to disassemble the pump for a detailed internal inspection. This inspection revealed multiple areas of concern, including:

- The impeller shows mechanical damage and is unrepairable
- Shaft sleeve with excessive wear
- Bushings are severely worn
- Diffuser out of tolerance

Due to the extent of damage and wear, IPS recommended that the pump be rebuilt. The cost to rebuild the existing pump is \$10,899.72. Because the pump is currently in a fully disassembled state, it is impractical to transport it to additional vendors for further quotations, and it's considered an emergency repair because of the critical water supply demands on our raw water pumping system.