

TO: Mayor and City Council  
FROM: Joe Zierden, Public Works Supervisor  
RE: Irrigation Turbine Replacement  
DATE: July 6, 2023

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Sewer Plant effluent is pumped by two 50 horse turbines into the wooded spray fields and was installed in approximately 1978. During the installation of a new motor on turbine #2, staff discovered the turbine shaft would not rotate or allow adjustment. Several vendors (Quality Flow Systems, Minnesota Valley Irrigation and W.W. Goetsch) were contacted to inspect/repair turbine #2, the only vendor to respond was Quality Flow Systems. Quality Flow Systems determined the turbine was non-repairable due to corrosion/age and likely played a role in the old motor failure last year. Relying on one turbine would not be recommended for long term operation. A quote was obtained for a new turbine/installation from Quality Flow Systems for \$22,700.00.

Cost of a new turbine would be paid out of the Sewer Capital Fund.

**Council Action**

Staff recommends that the City Council accept the quote from Quality Flow Systems for \$22,700 for the replacement of irrigation turbine #2.