

Project Schedule

April, 2021

Project Start Date

June, 2022

Project Completion Date

Contact Information:

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Transfer Pump Replacement

Background

The City of Hallandale Beach has successfully maintained the water treatment plant's transfer pumps (TPs) since 1968. Staff reports that two (2) of the three (3) transfer pumps were installed in 1968 and the third pump was installed at a later date. All three transfer pumps discharge water from the clear well (storage and disinfection) to a common pipe. Some of this water is then stored in above ground storage tanks and some of it supplies backwash water to the City's filters. Filter backwashing occurs when water is pumped backwards over the filter. This acts as preventative filter maintenance and extends the life of the filter.

All three pumps are at or beyond the end of their normal economic lives (typically 20-30 years). City staff have reported that current pump capacities have decreased to approximately 80% of their original design capacities. The transfer pumps are also experiencing deficiencies in filter backwashing. Total transfer pumping capacity is currently less than the water treatment plant's rated capacity of 16.0 MGD. The water treatment plant has the capacity to produce 16 million gallons of water per day. Demand in the City does not currently warrant this production, however if the City were to have to produce this much water it would not have the capacity to do so because the transfer pumps have outlived their useful lives.

Scope of Work

The scope of work includes removal of existing equipment, piping, electrical and structural components. Installation of new pumps, piping, valves, controls, electrical, structural, mechanical and civil upgrades required for a complete and operable system.

Project Location

