



Wastewater Treatment Facility Needs



Infrastructure Needs

The Jordan wastewater treatment facility is 24 years old and in need of improvements based on age and corroded condition, but also to combat evolving state and federal requirements. The City had a professional engineer complete a facility plan in March 2022 to identify how the new requirements will impact the existing facility and how the aging facility can be most cost effectively improved as the City also strategically manages growth.

Replace the influent lift station at the WWTF: The City's gravity sanitary sewer system flows to an existing sanitary lift station just outside its wastewater treatment facility (WWTF). The internal lift station components are 24 years old and have exceeded their service life. The lift station structure is 40 years old and is also approaching the end of its service life. While the City could simply replace the pumps, that investment would be short sighted. Jordan's facility is simultaneously facing increasing flow volumes and the facility also has a new, pending chloride discharge limit for its discharge to Sand Creek. The facility is designed with three equalization ponds to prevent harmful bypass events which can discharge untreated wastewater to Sand Creek and the Minnesota River. However, the existing lift station capacity and ancillary piping facilities are not adequate to meet State and EPA requirements. To ensure protection of our natural resources during these events, the lift station and piping facilities need to be replaced to house larger pumps and piping. This will allow maximum flows to be redirected to the equalization basins, preventing illicit discharge events. The replacement of the lift station with pumps and piping adequate to meet future flows and regulations will most cost effectively benefit the public and environment, properly accounting for regulatory goals.

Final Clarifier at the WWTF: The City's wastewater facility is experiencing increased flows as a result of more inflow/infiltration (I&I) on the sanitary sewer collection system. While the City is separately battling I&I throughout the collection system as well, completely ridding I&I from the system is infeasible and expansion of the Jordan WWTF is an inevitable need. The City is in need of a larger final clarifier to properly treat the increased flows before wastewater reaches Sand Creek and the Minnesota



Corroded pretreatment piping and grit pump

River. The clarifier will ready the system for increased I&I due to climate change, meet the goals / objectives of pending regulatory requirements the City is faced with, and meet the needs of the growing community.

Pretreatment Infrastructure Rehabilitation: Due to the corrosive environment of pretreatment facilities, the existing pretreatment equipment is corroding and in need of improvement. These needs include replacement of the corroded grit classifier, replacing deteriorated doors throughout the pretreatment building, and sandblasting/re-coating of the piping and pumps throughout the building.



Corroded pretreatment piping and valve

Funding Request

The City is seeking \$6.25M in state bonding bill funds for these infrastructure needs, which are itemized as follows:

- \$1.0M: Replace Influent Lift Station
- \$4M: Final Clarifier
- \$1.25M: Pretreatment Building Piping & Pump Rehabilitation
- \$6.25M: Total Request**