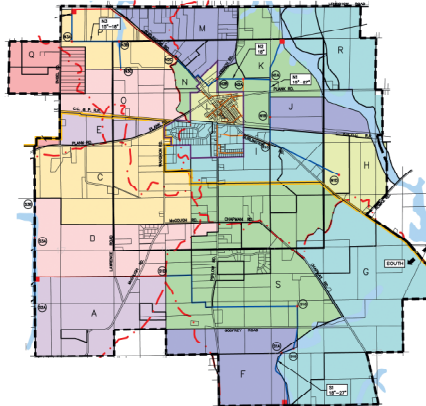




Wastewater Systems

Wastewater System Improvements
Burlington, Illinois



Wastewater Collection System

The Village of Burlington is currently an unsewered community with numerous privately owned on-site septic systems that continue to fail. Acknowledging their obligation to the environment, the Village has taken action to remedy this situation by giving EEL the responsibility of completing a Sanitary Sewer Feasibility Study followed by a Facilities Plan Document which is currently under review.

The recommendations in the Facilities Plan include the construction of a municipal sanitary sewer collection system and two wastewater treatment facilities.

Construction Cost:

\$10,300,000 (Est.) - Collection System

\$15,500,000 (Est.) - Treatment Facilities

Project Features:

North WWTF

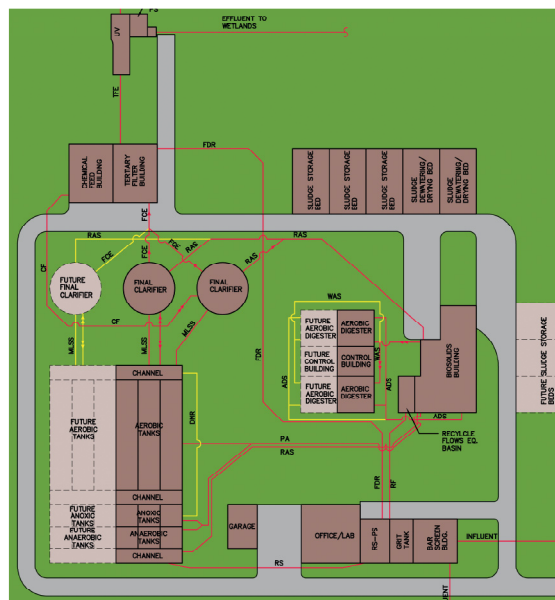
- Headworks building
- Grit removal
- Raw sewage PS
- Aeration basins
- Final clarifiers
- Tertiary filters
- UV disinfection
- Aerobic digesters
- Artificial polishing wetlands
- Biosolids storage

South WWTF

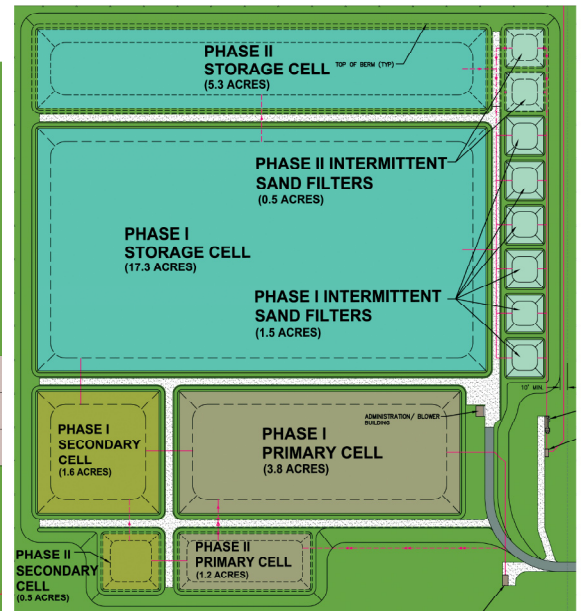
- Headworks building
- Raw sewage PS
- 2 aerated lagoons
- Storage lagoons
- Sand filtration
- UV disinfection
- Irrigation pump station
- Land application

To the north a conventional activated sludge plant sized for a design average flow of 0.94 MGD will be constructed. To the south a lagoon pre-treatment system that will “land apply” treated wastewater to surrounding agricultural land will also be constructed.

Together the proposed WWTF's will serve a projected year 2028 population of 15,797 population equivalents.



Site Layout North WWTF



Site Layout South WWTF