

SHOREWOOD FOREST UTILITIES, INC WASTEWATER COLLECTION AND TREATMENT SYSTEM FACT SHEET

OVERVIEW

- Shorewood Forest Utilities, Inc. (SFU) utilizes an Activated Sludge, Extended Aeration Wastewater Treatment Facility (WWTF) to treat sanitary sewer from its service area.
- The current facility has an Indiana Department of Environmental Management permitted capacity (average daily flow) of 450,000 gallons per day (0.450 million gallons/day).
- The current facility services approximately 1,034 equivalent dwelling units (EDU's), which generate an average daily flow of 180,000 gallons per day (0.180 mgd).
- The SFU has previous commitments to serve an additional 274 EDU's (unbuilt homes) within its service boundary. This will result in an additional flow of 48,000 gallons per day.
- Currently, there is a theoretical reserve capacity of 222,000 gallons per day. Reserve capacity is determined based on the following:

$$\text{Reserve Capacity} = \text{Permitted Capacity} - \text{Current Flow} - \text{Future Committed Flow}$$

FACILITY PLANNING / PLANT IMPROVEMENTS

- In 2011, the SFU Board contracted McMahon Associates, Inc. to prepare a Facility Plan for the treatment works. The scope of the Facility Plan evaluated the condition of the current tankage and equipment to determine the actual treatment capacity and to make recommendations relative to necessary improvements to recapture permitted capacity lost over the years due to the degradation of equipment.
- The results of the Facility Plan lay the groundwork for a multi-phase improvements project to undertake much need and overdue replacement and upgrades of treatment tankage and equipment. The goal of the projects was to recover the permitted capacity of 0.450 mgd and make the plant truly compliant with State regulations for redundancy, wet weather flow capacity, and be proactive in anticipation of ever-changing permit requirements.
- The first projects were completed in 2013, 2015 and 2016. The final phase of projects is currently in design phase.

NEED FOR GROWTH OF CUSTOMER BASE

- The reserve capacity of the SFU WWTF would service a minimum of an additional 716 equivalent dwelling units, generating \$XXX in upfront connection fees and \$XXX annually in user fee revenue.
- Growth in revenue is necessary to pay for ever-increasing costs of operation, replacement of aged equipment, and to address maintenance of the treatment plant and collection system.
- The last sewer rate increase in Shorewood Forest was in April 2005.
- Revenue growth can only be achieved two ways; either from increased user rates of the existing customer base or by increasing the size of the customer base within the available capacities of the system.
- Compounding the need, previous SFU management did not place emphasis on establishing set-aside capital replacement budgets for the utility. This has resulted in equipment reaching the end of its service life without having the budgeted finances available from the collected user rates to pay for the replacement equipment.