

UTILITIES DIVISION

The Utilities Division is responsible for the operation and maintenance of the Village water and sewer systems, and the storm water conveyance system. The Village has 7,515 residential and 674 commercial services, for a total of 8,189 utility billing addresses, of which approximately 150 are for properties outside of the Village limits. Duties include: monitoring of distribution and storage of potable water and associated regulatory reporting requirements; repair of water mains, valves, hydrants, customer water service lines and valve boxes located in the public right-of-way; hydrant flow testing; water valve exercising; water meter installation, repair and testing; water quality testing; manhole, vault, and catch basin repairs; sanitary sewer lift station maintenance; sanitary and storm sewer system cleaning and televising; and responding to residents requests for service and assistance.

Water Production, Pumping, Storage, and Distribution System

- Two pressure adjusting stations located where Glen Ellyn receives Lake Michigan water from the DuPage Water Commission.
- Two 1,000,000 gallon ground storage reservoirs and two elevated storage tanks of 500,000 and 750,000 gallon capacity.
- Two stand-by ground water wells and two water pumping stations.
- 145.2 miles of water mains; 1,211 fire hydrants; 1,368 water main line valves; and 8,189 water meters.
- Supervisory Control and Data Acquisition (SCADA) monitoring and control system.

Sanitary Sewer System

- 85 miles of sanitary sewer mains.
- 5 sanitary sewer lift stations.
- Approximately 2,000 manholes.

Storm Sewer System

- 70 miles of storm sewer mains.
- 3,165 storm sewer inlets and catch basins.
- 1,200 storm sewer manholes.

Utilities Division Accomplishments for FY 2005/06

1. Tested and calibrated 15 water meters that are 2 inch and larger in diameter.
2. Reviewed televised sanitary sewer reports, and identified 25,000 feet of sanitary sewer main to be lined with a cured in place resin liner. This would serve to reduce “clear water” inflow into our sanitary sewer collection system.
3. Met all state and federal drinking water regulatory requirements.

4. Contracted the video taping of approximately five miles of sanitary sewer main and prioritized the maintenance and reconstruction needs of these mains.
5. Pressure cleaned approximately nineteen miles of sanitary main.
6. Vacuumed out over 11% of the Village's 3,165 storm sewer system catch basins, and cleaned approximately four miles of storm sewer main.
7. Repaired 51 water main breaks, 17 fire hydrant replacements, 25 hydrant repairs, 9 water main valve replacements, 10 valve repairs, 5 water service line repairs, 10 sanitary sewer repairs, 5 storm sewer repairs, 22 storm sewer structure repairs, 39 sanitary manhole repairs, and 5 water vault rehabs.
8. Updated the Village's Water Atlas.
9. Marked sanitary sewer and water main locations for 5,323 JULIE requests.
10. Trained all members of the Utilities Division staff on emergency response procedures as identified in the Emergency Response Plan. The staff has completed two comprehensive training sessions on emergency operations of our two back up wells and emergency generator systems.
11. Performed 178 final occupancy water meter inspections.
12. Replaced 1.85 miles of old 4 inch water main, 2.13 miles of old 6 inch water main, and 276 feet of old 8 inch water main with 3.98 miles of new 8 inch, 0.7 miles new 6 inch, and 675 feet of new 12 inch water main during FY 2005/2006 construction projects to improve fire protection and reduce water main breaks.
13. Provided 60% of the Public Works manpower in snow removal efforts.

Utilities Division Goals for FY 2006/07

1. Continue to meet all state and federal drinking water regulatory requirements.
2. To further reduce unmetered water loss, we will test for accuracy and repair another 15 meters that are two inch in diameter or larger.
3. Continue the on going research to identify the sources of clear water inflow in to the sanitary sewer collection system and develop viable plans to mitigate this inflow.
4. Conduct an infrared inspection of all well houses; pressure adjusting stations, and sanitary lift stations to provide early detection of potential electrical problems.
5. Provide Public Works coordination of work with the engineering consultants and engineering staff to assure that FY 2006/2007 projects are built on time, and with minimal disruption to the

Village of Glen Ellyn residents.

6. Pressure clean 20 miles of sanitary sewer main.
7. Pressure clean 5 miles of storm sewer main, and vacuum 650 storm sewer catch basins {20% of the 3165 total basins}.
8. Televis 5 miles of sanitary sewer main and prioritize the maintenance and reconstruction needs of these mains.
9. Train two additional Public Works staff to be competent operators of the computerized SCADA system, the water production plants, and the sanitary sewer lift station systems.
10. Cross train members of the Utilities Division and the Street/Forestry Division to provide a seamless Public Works Staff capable of shifting personnel as needed to respond to the on going and ever changing duties of the Public Works Department.
11. We will be installing security upgrades to all of the water facilities that includes TV cameras, new hatch barriers for the reservoirs, and additional sensory equipment that will be installed to supplement the existing security systems currently in service at the well houses and pressure adjusting stations.
12. Work with a consultant to perform a rate study of charges billed to Illinois American Water for the treatment of wastewater at the Glenbard Wastewater Authority.