

# WASTEWATER TREATMENT PLANT

---

## 2006-2007 Annual Report For Jackson Wastewater Treatment Plant

The Jackson Wastewater Treatment Plant located on Lansing Avenue (north of town) services the City of Jackson, parts of Blackman, Napoleon, Spring Arbor/Sandstone, Summit townships, and the State Prison of Southern Michigan.

The wastewater coming to the plant in fiscal year 2006-2007 averaged about 13.6 million gallons per day. Many pollutants are removed from the wastewater in the treatment process. We produce sludge or bio solids as a result of our cleaning the water. The bio solids are treated thereby reducing the organic matter in the sludge. The treated sludge is recycled on area farm fields or disposed of at the county landfill. In fiscal year 2006-2007 around 3.4 million gallons were put on area farm fields and about 3,600 cubic yards were disposed of at the county designated landfill.

Some of the chemicals or materials our sewer users may discharge can cause problems for the sewer system, the plant, or they may pass through the plant into the Grand River and cause environmental problems. In order to help prevent problems and to keep informed on what kind of materials are in our service area our pretreatment personnel do inspections, sewer discharge monitoring/sampling, and, if needed, enforcement activities.

Our laboratory personnel perform many chemical tests on the plants incoming wastewater, in plant processes, and plant discharge. Our lab personnel also sample our bulk township sewage discharges so as to bill the townships for the services we perform.

Our maintenance and sludge personnel maintain 16 buildings, over 18 vehicles, 62 process tanks, and 9 City sewage lift stations. The property and buildings contain numerous pieces of machinery, plumbing, and electrical equipment.

The wastewater treatment plant started operation in 1936. There have been numerous updates to the plant during the years but "Father Time" must be answered to. In other words we need to replace or upgrade many items.

In fiscal year 2006-2007 an engineering firm called EarthTech was hired to develop plans/specifications and perform engineering oversight for:

- Major pipe replacement in our powerhouse building.
- Significant service water line replacement in various areas of the plant, sludge line replacement for primary tanks 1-6, scum line discharge installation for 1-12 primaries.
- Build a new locker room etc. so we can then perform other work where a present wet well is located. Perform some electrical replacement work.

We also replaced one sewage lift station located by Research Drive. We chip sealed most of the plant and park asphalt areas. We replaced a 1978 front-end loader. We purchased an aerial lift device to help with our maintenance activities. We purchased a small excavator to assist with pipe repair etc., and we replaced a 1996 pickup truck.

Source: Annual Report 2006-2007

*2995 Lansing Avenue 517-788-4075*

*Director of Wastewater Service and Facilities: Paul Vermaaten*