

Major MSANK Activities in 2016

Management reports that during 2016 MSANK undertook several noteworthy activities which are itemized below:

A. Wastewater Treatment Plant

- MSANK employees rotated conveyor belt supports and installed new wear plates on the #2 grit snail.
- MSANK employees installed a new gear box, drive motor and chain on the #2 clarifier.
- MSANK employees installed a new digester gas compressor #2. New ceramic filters were installed and all piping associated with this compressor and filter was removed and thoroughly cleaned and reinstalled.
- MSANK employees drained and cleaned both head cells in the grit removal facility.
- MSANK employees cleaned and coated the #3 digester roof with Shur-Tar.
- MSANK employees installed and rebuilt the #1 digester recirculation pump.
- MSANK employees removed gravel and other debris from the main influent channel in the new head works pump house several times.
- MSANK employees cleaned the decant tank and all associated piping in the primary system.

- MSANK employees drained and cleaned both chlorine contact tanks and repaired the pump screens.
- MSANK employees repaired the non-potable water line in the digester basement and installed new support braces.
- MSANK employees repaired the #1 bar screen by replacing the broken chain and flights and converting the torque.
- MSANK employees sealed concrete around the new construction.
- MSANK employees installed beam stops on the hoist in the new pump house.
- MSANK employees drained, cleaned, and repaired chains, flights and wear shoes in all four primary settling tanks.
- MSANK employees excavated a trench for a new electric line from the new office building to entrance gate.
- MSANK employees performed exploratory excavation to locate existing conduit for light standards around the new office.
- MSANK employees replaced the drive motor and coupler on the #2 primary tank.
 - MSANK employees installed new 6-inch stainless steel pipe to facilitate main channel cleaning in the new pump house.
 - MSANK employees installed two new samplers – one for primary effluent and one for final effluent.
 - MSANK employees repaired the drive chain and flights in the secondary thickener.
 - MSANK employees replaced the air compressor and air lines in the secondary thickener.

- MSANK employees loaded excess excavated material and debris for the new construction project site.

B. Wastewater Collection System

- Conducted internal inspection of approximately 3,369 lineal feet of sanitary sewer line ranging in size from 8-inch to 48-inch.
- Conducted dye testing of approximately 241 units for I/I violations.
- Continued infiltration/inflow (I/I) studies in certain areas of the collection system.
- Cleaned approximately 11,575 lineal feet of sewer line.
- Performed work on 24 manholes. The work comprised of lid and casting replacement to at times installing a new precast manhole.
- Repaired approximately 55 feet of sanitary sewer line ranging in size from 6 inch to 18 inch.
- Conducted continuing flow monitoring in select manholes as a part of the CSO requirements of the NPDES Permit.
- Performed inspections of CSO chambers at various intervals and during rain events.
- Responded to all Pa-One Call notices (400).
- Responded to all service calls (77) and made repairs as required.
- Monitored all MSANK pump stations daily.

- Continued to collect and update data regarding our collection system for the GPS information of our Information Management System (City Works).
- Continued to utilize and upgrade the Service Work Order of the Information Management System (to be City Works Program).
- Continued to up-grade our Sewer Camera CCTV system for NASSCO certification.
- Assisted MSANK contractors performing CCTV and cleaning and repairing of sanitary sewer lines in conjunction with the regions Administrative Order for Compliance on Consent.

The Authority's maintenance staff continued their efforts relative to the completion of preventive maintenance activities on equipment in an effort to maintain satisfactory operation and performance of all MSANK plant and collection system equipment throughout 2016.