

## **Review of Major MSANK Activities in 2010**

During 2010, MSANK undertook several noteworthy activities which are itemized below:

### **1. Wastewater Treatment Plant**

- MSANK employees installed two new diaphragm transfer pumps (#1 & #2) serving the sludge digester system.
- MSANK employees installed new main gears, chains, shafts and shoes in the primary settling tanks #1 and #2.
- MSANK employees refurbished the sludge thickener. This included installing new top shafts & gears, new skim line, a six inch diameter pneumatic valve, chains & flights, and a new drain line.
- MSANK employees installed a new non-potable waterline with a six inch diameter isolation valve in the Digester Building.
- MSANK employees installed a new access pit for the chlorine line and installed new chlorine line to the first chlorine manhole.
- MSANK employees installed new chlorine controls, header and board inside the Chlorine Building.
- MSANK employees installed a new one-inch diameter chlorine line from the first chlorine manhole to the chlorine contact tank.

- MSANK employees installed a new storm inlet at the plant entrance.
- MSANK employees installed a new flow meter in the twenty-inch diameter plant recycle flow line.
- MSANK employees installed new wiring for both plant gates and for lighting at the main entrance gate.
- MSANK employees installed a new #1 Primary valve.
- MSANK employees installed new exhaust fans in the Primary Building.
- MSANK employees installed weir plates in channels leading to both new bar screens.
- MSANK employees installed a new yard hydrant at the chlorine contact tank.
- MSANK employees installed a new check valve on the #3 return activated sludge pump.
- MSANK employees installed root-wood media in the new Bio-filter.
- MSANK employees installed a sprinkler system in new Bio-filter.
- MSANK employees installed new gears on the #1 clarifier drive.
- MSANK employees installed a new security cage in the Primary Building.

- MSANK employees installed new conduit and wiring for the new plant security camera.
- MSANK employees installed new fans in the office rest rooms and maintenance room.
- MSANK employees excavated and capped the four inch diameter “Tee” on the non-potable line in front of the main garage.

## 2. Wastewater Collection System

- Conducted internal inspection of approximately 100,000 lineal feet of sanitary sewer line ranging in size from 8-inch to 48-inch diameter.
- Conducted dye testing of approximately 220 units for infiltration/inflow (I/I) violations.
- Continued I/I studies in certain areas of the collection system.
- Heavy cleaned approximately 24,000 lineal feet of sewer line.
- Performed work on 23 manholes. The work was comprised of lid and casting replacement to at times installing a new precast manhole.
- Repaired approximately 400 feet of sanitary sewer line ranging in size from 6 inch to 21 inch diameter.

- 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 approximately 400 Pa-One Call notices.
- Responded to 104 service calls and made repairs as required.
- Monitored all MSANK pump stations daily.
- Tied the Valley Camp Pump station into the SCADA system at the plant for monitoring purposes.
- Continued to collect and update data regarding our collection system for the GPS information of our Information Management System.
- Continued to utilize and upgrade the Service Work Order of the Information Management System.
- Continued to up-grade our Sewer Camera closed circuit television (CCTV) system for NASSCO certification.
- Assisted MSANK contractors performing CCTV and cleaning of sanitary sewer lines in conjunction with the regional Administrative Order for Compliance on Consent.

The MSANK 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 treatment plant and collection system equipment throughout 2010.