

## **SEWER MAINTENANCE DIVISION**

### Major Accomplishments for 2014

The division recorded 159 sewer-related actions or complaints. Sluggish or blocked mains generated 19 complaints. There were 102 complaints related to actual lateral blockages. Eleven (11) of these were when a plumber was unable to restore service or reported a defect. The division restored service by using sewer-cleaning rods or a Harben. Plumbers addressed the other 91 lateral complaints. Eight (8) laterals were inspected with the CCTV equipment. The other complaints resulted in a general investigation or were unrelated to lateral or main malfunctions. A total of 143 trouble reports occurred while on-duty and 16 were call-outs. The call-outs are as follows: 8 due to main blockages and 8 due to reports of lateral blockages.

The division repaired five laterals during 2014. (2013: 5 repairs; 2012: 3 repairs; 2011, 2 repairs; 2010: 5 repairs, 2009: 9 repairs, 2008: 4 repairs, 2007: 6 repairs, 2006: 4 repairs, 2005: 3 repairs, 2004: 6 repairs).

There were 4 main repairs completed by either the division or a private contractor during 2014.

The division cleaned 93,766 lineal feet of sanitary sewer during 2014 (2013: 353,329; 2012: 445,934; 2011, 257,091; 2010: 182,500; 2009: 245,200; 2008: 163,058; 2007: 135,567). The decrease in jetting was due to an increase in CCTV inspections.

No major replacements or rehabilitation took place in 2014. Main Sewer pipe replacement/rehabilitation: 2013: 356 (132 lf by City contractor, 234 lf by developer; 2012: 0 lf; 2011: 3001 lf; 2010: 2707 lf; 2009: 1322 lf; 2008: 817 lf.

The crew televised 19,627' lineal feet of sanitary sewer mains in 2014. (2013: 0'; 2012: 0'; 2011: 1500'; 2010: 6,490'; 2009: 1,278'; 2008: 7817'; 2007: 5,024')

In 2014, 1450 manholes were inspected during cleaning and maintenance activities.

A total of 7 sanitary sewer manhole frame and cover was replaced and adjusted to grade. The division assisted Highway replacing/adjusting 3 storm sewer manholes. No manhole cushions were installed. (2013: 14 SS, 5 SWS; 2012: 1 SS, 30 SWS (replaced 3); 2011: 17 SS 19 SS due to sewer construction, 3 SWS manholes; 2010: 63 SS manholes, 10 SWS manholes, 2009: 35 SS manholes, 10 SWS manholes)

The chemical root control program for laterals continued in 2014. Root control was applied to 16 service laterals where homeowners indicated or the division found root problems (2013: 13; 2012: 22; 2011: 21 laterals; 2010: 50 laterals; 2009: 29 laterals). Root control was applied to 0' of sewer mains in problem areas (2013: 0'; 2012: 2643'; 2011: 391').

The division continued utilizing CSL for Intermunicipal flow monitoring. This firm collects data and prepares reports from the 19 intermunicipal flow meters and two rain gauges. The

information was used for sewer billing and collection system capacity evaluation. Four additional meters were added to system in 2014.

The division responded to 1,495 requests for PA-One Call utility markings. (2013: 1524; 2012: 1884; 2011: 1888; 2010: 1709; 2009: 1826; 2008: 2115; 2007: 2113; 2006: 2,066; 2005: 1,727).

Five (5) Flood Pump Stations were inspected and maintained. All five stations were operational and ready for a flood emergency.

The division continues to use a database management system for tracking activities within the division.

The Sewer Emergency Response Team continued to operate for serious sewer related backups.

The division continued to update the comprehensive sewer maps and lateral detail sheets.

The Superintendent continued to work on the mapping and attribute components of the GIS system for sanitary sewers and storm sewer system. Inventorying and inclusion of the storm water outfalls to the Codorus Creek and tributaries continued as part of the City's ongoing MS4 program.

The division assisted the Highway, Parks, and WWTP as needed. The Highway Bureau assisted Sewer Maintenance on several patching and manhole projects.

The division became fully staffed by the end of 2014.