



MEMORANDUM

TO: Mayor Laurel L. Prussing and Members of the City Council
FROM: William R. Gray, Public Works Director
Bradley M. Bennett, Assistant City Engineer
Justin M. Swinford, Civil Engineer II
DATE: March 23, 2017
RE: 2016 Sewer Activity Report Summary

Action Requested

This summary of the 2016 Sewer Activity Report prepared by the Public Works Department is presented for your reference. The full report is available at http://urbanaininois.us/Sanitary_Sewer_System on the City website. The report summary is for informational purposes only and no Council action is required.

Background and Facts

The City of Urbana owns, operates and maintains over 102 miles of sanitary sewer and 142 miles of storm sewer. Each year the City performs activities including cleaning, inspections, repairs, and replacements to keep the sewer systems functioning at their optimal capacities. Activities are prioritized and sorted into the following categories:

1. Basement back-up reports and flooding complaints;
2. Problematic sewers identified by City staff;
3. Areas where the City is performing roadway resurfacing or reconstruction; and
4. High cost repairs such as sewers under railroads, arterial streets, collector streets, and brick streets.

Highlights from the 2016 maintenance activities include 70,540 linear feet (13.4 miles) of sanitary sewer cleaning, 32,426 linear feet (6.1 miles) of storm sewer cleaning, 11,371 linear feet (2.2 miles) of sanitary sewer televising, 30,232 linear feet (5.7 miles) of storm sewer televising, 216 hours of manhole/inlet cleanings, 29,328 linear feet of chemical grease treatment, and 570 linear feet of mechanical root treatment. Public Works maintenance efforts resulted in the lowest reported total of public sewer back-ups reported since 2004. A history of public sewer blockage related back-up complaints to the City from 2004 to 2016 is presented in Figure 1.

A summary of the sewer related activities completed by the Public Works Department in 2016 is presented in Table #1.

2016 SEWER ACTIVITY SUMMARY TABLE #1

| Activity | Quantity | Comments |
|--|-------------|-----------------------------------|
| <u>Rehabilitation Activities</u> | | |
| Sanitary Sewer Pipe Point Repairs | 30 l.f. | |
| Sanitary Sewer Manhole Repairs | 6 ea. | |
| New Sanitary Sewer Manhole Construction | 3 ea. | |
| Storm Sewer Point Repairs | 46 l.f. | |
| Storm Sewer Manhole/Inlet Repairs | 16 ea. | |
| New Storm Sewer Manhole/Inlet Construction | 5 ea. | |
| Sanitary Sewer Full Length Lining | 8,454 l.f. | |
| Storm Sewer Full Length Lining | 2,434 l.f. | |
| <u>Maintenance Activities</u> | | |
| Sanitary Sewer Cleaning | 70,450 l.f. | |
| Storm Sewer Cleaning | 32,426 l.f. | |
| Sanitary Sewer Television Inspection | 11,371 l.f. | |
| Storm Sewer Television Inspection | 30,232 l.f. | |
| Inlet and Manhole Cleaning | 216 hrs | |
| Chemical Grease Treatment | 29,328 l.f. | Included in sewer cleaning totals |
| Mechanical Root Treatment | 570 l.f. | |
| <u>Sanitary Sewer Blockages</u> | | |
| In Private Service Lines | 30 ea. | |
| In City Owned Mains | 20 ea. | |
| <u>Sanitary Sewer Surcharges</u> | | |
| Reports of Sanitary Sewer Surcharges | 12 ea. | |
| <u>Overhead Sewer Program</u> | | |
| | 0 ea. | |
| <u>Illicit Connections & Discharges</u> | | |
| | 1 ea. | |
| <u>Pavement Reimbursement Program</u> | | |
| | 3 ea. | |
| <u>Hazardous Sump Pump Discharge Elimination</u> | 12 ea. | 7 corrected in 2016 |
| <u>Private to Public Sewer Conversion</u> | | |
| | 1 ea. | |

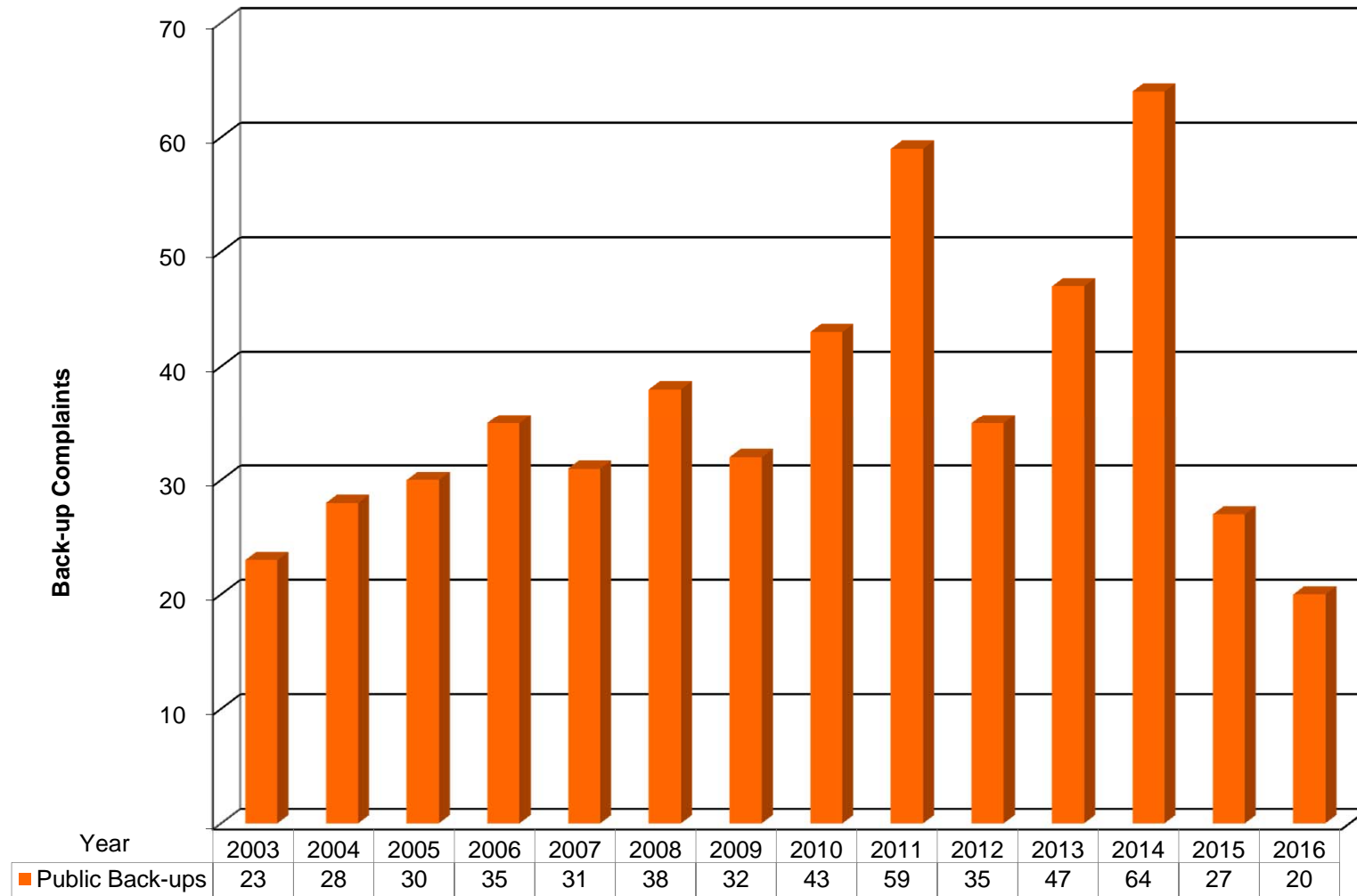


Figure 1
Public Sanitary Sewer Back-Up Complaint History 2003-2016

2016 SEWER ACTIVITY REPORT PHOTOS



Cured-In-Place Pipe (CIPP) Rehabilitation



Construction of Sanitary Sewer Extension Along Springfield Avenue



Miscellaneous Sewer Repair Project



Sewer Cleaning