

**CITY OF WAUKESHA
 CMOM COLLECTION SYSTEM PROGRESS REPORT
 MARCH 8, 2018**

ACTIVITY	2017 ACCOMPLISHMENTS
SYSTEM INSPECTION / MAINTENANCE	
Gravity Sewers	
Sewer Televising	About 92% of system completed. Will complete entire City in 2018.
Sewer Flushing	4 crews flush entire City annually
Sewer Rehabilitation / Replacement	Replaced/lined mainline sewer and/or laterals in ROW for: <ul style="list-style-type: none"> - West-Side Concrete Sewer Lining - East-Side Concrete Sewer Lining - N Grand Ave / South St - Arcadian Ave - NW Barstow St - Jefferson St / Oscar St / Greenway Terr / Butler Dr - Caroline St - W Sunset Dr / S Grand Ave Intersection - Patricia Ln - West Ave / Glenwood Dr - Perkins Ave - S Porter Ave Total mainline replacement/lining: 30,915 LF Total lateral replacement/lining in ROW: 4,112 LF
Manholes	
Inspections	88% of system completed. Finish work in 2018.
Manhole Rehabilitation	<ul style="list-style-type: none"> - 64 cover replacements - 142 chimney replacements - 2 cone replacement - 119 complete MH linings - 27 complete MH replacements - 31 invert rehabilitations
Chimney Seal Installation	Installed 170 seals

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Force Mains	
Ferrous Force Main Replacement	Abandoned approx. 3900 feet of Ruben Dr force main with new connection at Butler Dr and Rustic Way.
Inspections	Inspected all air relief valves
Pump Stations	
Pump Station Inspection	Weekly inspections completed
Pump Station Rehabilitation	River Place, MacArthur Rd, and Coral Dr upgrades complete
Pump Station Elimination	Completed final phase of alternatives analysis for Greenmeadow / Woodfield pump stations and determined gravity interceptor to replace stations was cost effective. Began final design process.
Pump Station Wet Well Cleaning	Performed cleaning at all stations
Pump Station Maintenance	<ul style="list-style-type: none"> - Replaced pumps, guide rails, and other items - Radio communications switched over for 3 stations - Oil changes and annual maintenance; wear parts - Signage and chains installed to discourage dumping
CAPACITY	
Peak Flow Reduction	<p>For 2017, the monthly average difference in Clean Water Plant (CWP) influent versus Water Utility pumping was 4.553 MGD. This is higher than the historical (2005-2010) monthly difference of 3.390 MGD by 1.163 MGD.</p> <p>The precipitation for the year was 2.63 inches above the historical yearly average.</p> <p>The higher than average precipitation total for the year caused higher than average I/I. Overall, the system continues to show a downward trend of I/I compared to the historical median I/I.</p>

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ACTIVITY	2017 ACCOMPLISHMENTS
TRAINING	
Confined space entry	Completed entry practice training
Manhole & Sewer Assessment	Sewer crews completed NASSCO refresher training
POLICY ISSUES	
Codes / Standards	
Update municipal codes to comply with CMOM goals	<p>City Attorney's office reviewing City ordinance Chapter 29 (Sewer Use & Wastewater Treatment).</p> <p>City Attorney's office reviewing revisions to City ordinance Chapter 32 (Stormwater Management & Erosion Control)</p> <p>Consultant completed the rewrite of the department's standard construction specifications. A new development handbook was created by Engineering staff.</p>
Source Control	
Odor control	Finished construction of sewer upsizing along Jefferson St, Oscar St, and Greenway Terr and connected Ruben Drive PS discharge near Butler Dr and Rustic Way. Odor complaints along the old route of E Moreland Blvd have ceased. The project also allowed a 60% reduction in the length of the ferrous forcemain.
OTHER ACTIVITIES / PROJECTS	
Quality assurance procedure	The quality assurance procedure for new connections to collection system was incorporated into the creation of the new development handbook.
TRACKING	
Service requests	City residents actively submitting service requests via website, smart phone, etc.