




# Sanitary sewer

**16.6%**

Percentage of total value of city assets

Total asset replacement value **\$424 million**

Current condition **GOOD**

Projected condition in 25 years  **POOR**

Annual average funding **\$2.5 million**

Annual funding needed to meet target performance **\$4.2 million**

Annual funding gap **\$1.7 million**

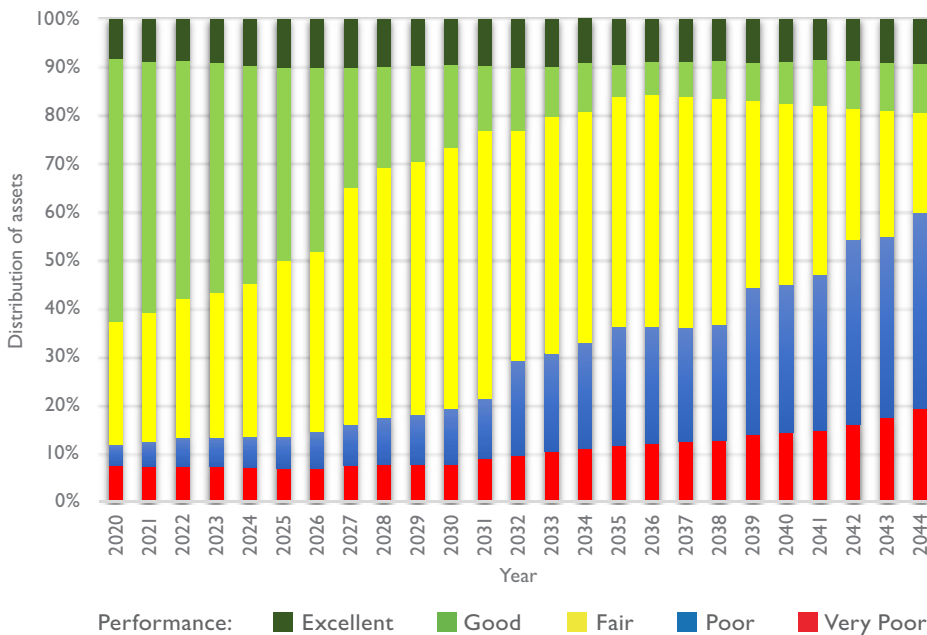


417 km of pipes



6 sewage pumping stations

Annual performance of sanitary sewer assets



**OUR STANDARDS**

Pumping stations and sewers are regulated by the Province of Ontario through the Ontario Ministry of Environment and Parks. In order to maintain compliance with provincial approvals, sufficient maintenance and rehabilitation funding must be allocated.

**CURRENT STRATEGY**

Sanitary sewers can be either be rehabilitated or replaced. The current strategy in Waterloo is to replace sanitary sewers that are in poor or very poor condition (i.e. a performance condition of between 0% and 40%) in co-ordination with the replacement of the road surface and other subsurface infrastructure such as water mains or storm sewers. In addition, when possible, sewers are rehabilitated using trenchless technology without disturbing the road base in order to alleviate impacts to assets with remaining service life. Sewage pumping stations are rehabilitated on an as-needed basis as components in each facility reach the end of their useful life.

**ANNUAL FUNDING GAP**

To acheive the target condition profile for sanitary sewer assets, an increase of the following is needed over the next 25 years:



**Sanitary sewer assets with a poor or very poor performance**

ASSET GROUP	AVERAGE ANNUAL PLANNED FUNDING	ANNUAL FUNDING REQUIRED TO ACHIEVE TARGET	ANNUAL FUNDING GAP
Sanitary sewer	<b>\$2.5 million</b>	<b>\$4.2 million</b>	<b>\$1.7 million</b>

At present, most of Waterloo’s sanitary sewer infrastructure is in very good condition, however, around 12% of sanitary sewer collection assets are in poor or very poor condition. The average annual budgeted capital expenditures of approximately \$2.5 million, if staying static, would result in a decline in the condition of the sanitary assets over the next 25 years.

*The information presented here is based on best currently available data regarding asset inventory, condition and degradation curve data along with funding as proposed in the approved 2020-2022 capital budget and 2023-2029 capital forecast.*