



WATER RELIABILITY TODAY & TOMORROW

Drinking Water Wastewater Reclaimed Water Stormwater

Managing Flagstaff's Sewer Infrastructure with GIS Technology

Cityworks Software Streamlines Preventative Maintenance

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Did you know that Flagstaff has a total of 7,734 manholes and 281.8 miles of sewer gravity mains? Inspections and maintenance on the sewer system can now be tracked by workers in the field using pilot software developed by the Water Services Information Systems and Wastewater Collections teams. This software will ultimately be used for all maintenance programs – water, wastewater, reclaimed water, and stormwater.



In 2020, staff completed 839 inspections with sewer manhole cameras.

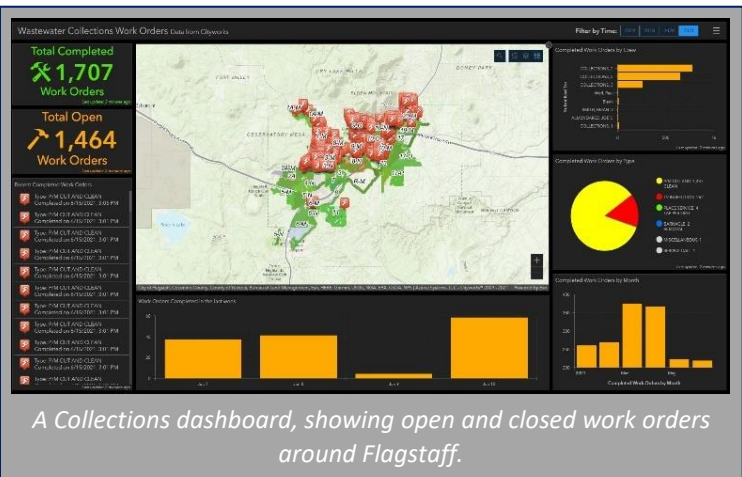
How Does it Work?

Infrastructure assets, such as manholes and pipes, are located on Geographic Information System (GIS) maps with a rotating inspection schedule.

Cityworks Maintenance Software digitally tracks each asset's work history and inspections, providing a clear picture of the asset's condition over time. A low score automatically triggers a work order for maintenance or repair. The software's Dashboard allows staff to view photos and maintain records of inspections, cleaning, and repairs while in the field.

Standardization Increases Efficiency

The Water Services Information Systems Team continues to standardize software programming, allowing for easier application of Cityworks Dashboards to [stormwater channel maintenance](#) and water and wastewater treatment facilities.



A Collections dashboard, showing open and closed work orders around Flagstaff.

Questions or comments?
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