

# Heather Hills Water Main Replacement

## Background

The City owns and operates a water and sewer utility that serves 7909 customers, or an estimated population of 25,000. Much of the infrastructure was built by Levitt between 1962 and 1970. At that time, unlined cast iron piping was commonly used for water distribution mains. Unlined cast iron pipe suffers from a corrosive action called tuberculation.

Tuberculation in the pipes results in small iron deposits which can be carried into the water when turbulence occurs. This results in discolored reach customers. While there is no known health risk, the discolored water is an undesired nuisance and unacceptable from a water quality perspective.



Hydrant Flushing, City of Bowie

High velocity flow created turbulence which lifted small iron particulates into suspension.

The tuberculation also affects water flow as it reduces the pipe size and create higher friction on the pipe surfaces.

Tuberculated pipes affect flow rates and cause pressure loss.



Pipe diameter is reduced.

Tuberculation increases the friction in the pipe.

A presentation to City Council was made in December 2016. For more details, review that presentation at this link: [December 2016 Presentation to Council](#).

**Project Scope**

Heather Hills Section is one of the worse areas affected by tuberculation. After completion of a hydraulic analysis, 0.4 miles of piping has been identified to be replaced along Hillman Place and a large section of Holiday Lane. This project will include some 'open cut' work (pipe expose by digging), and some pipe bursting as described above.



**Project Manager**

Name: Hong Yin  
Phone: 301-809-2337  
email: hyin@cityofbowie.org

**Total Project Cost**

Total Project Cost: \$500,000

**Design Consultant**

KCI Engineering

**Construction Contractor**

Anchor Construction

**Anticipated Construction Date**

August 2019 – April 2020

Last updated: 7/24/2019