

# PURCELLVILLE, VIRGINIA

## Acoustic Inspection as a Solution for Rural Water



### About

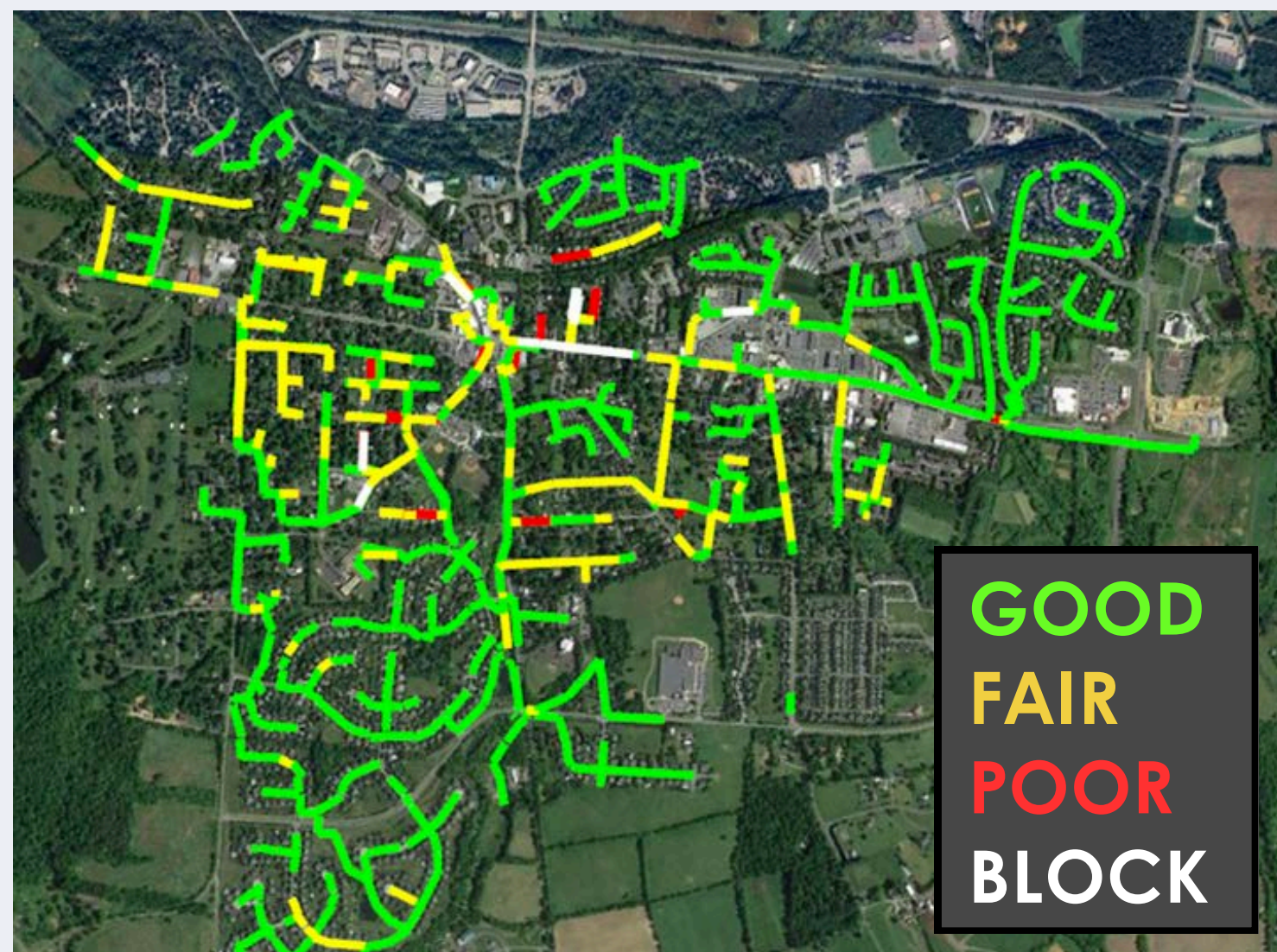
Located in the heart of Loudoun Valley, the Town of Purcellville serves a population of just under 10,000. **A dedicated team of four manages both the town's water distribution and wastewater collection systems.** Like many rural utilities, Purcellville faces the challenges of limited budgets and small staff.

### Sewer Infrastructure

Purcellville has **36 miles of gravity sewer - covering 3 square miles.** Their system is 25% clay lines with the rest consisting of PVC and ductile iron.

### Goals

Due to their limited team, their goal has been to clean and **inspect 20% of their system each year.** They also maintain a small hot spot program.



### Decision to Innovate

Purcellville adopted a condition-based maintenance program to more efficiently meet their goals. They purchased a SL-RAT in 2018 and **measured 50,000 ft in the first year.**

### Strong Early Results

To date, Purcellville has acoustically screened over 220k feet of gravity sewers. **Only 9% of their system scored low enough to trigger follow-up cleaning.**



### Big Savings

Purcellville has **reduced cleaning by over 50% and has saved over \$180k.** Additionally, they have saved over 800k gallons of flushing water.

### A Perfect Solution for Rural Water

Acoustic inspection has been the perfect solution. It **works for small teams**, is portable, and comes with a data portal that lets you QA/QC the data.

"Acoustic inspection has been a gamechanger for our system. We are working more efficiently and reducing risk in our system"

**Sean Grey, Maintenance Superintendent**



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