



# *OPWC Project Presentation Water Improvements*

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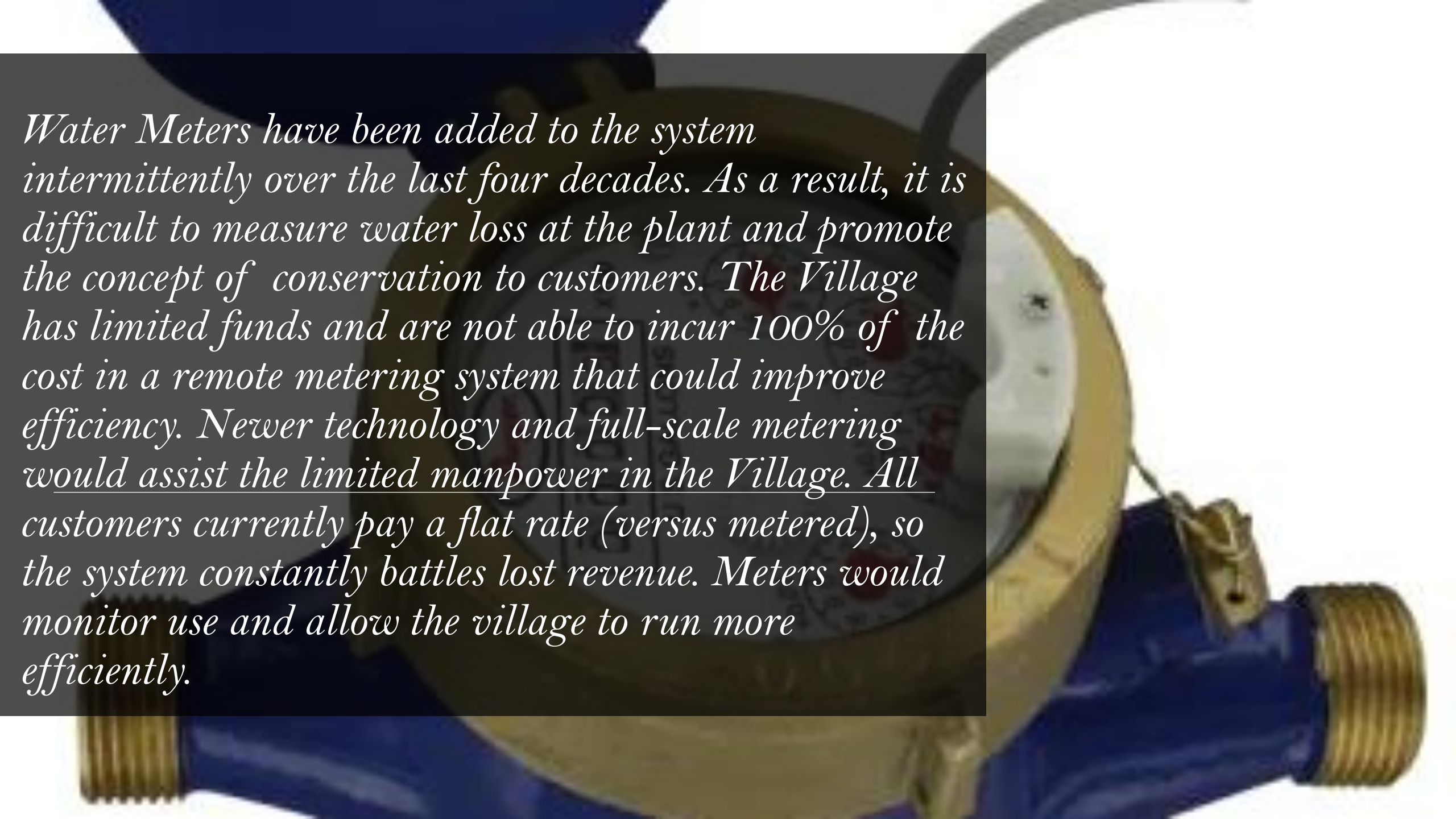
Water Meter Installation

W. Main Waterline Improvements

Water Tank Dismantling

# *Meter Installation*

→ Shiloh has few water meters installed throughout the Village. Many customers do not have meters at all. Which is one of the reasons there is no account of water loss. This project consists of installation of 315 remote read water meters for all water users.



*Water Meters have been added to the system intermittently over the last four decades. As a result, it is difficult to measure water loss at the plant and promote the concept of conservation to customers. The Village has limited funds and are not able to incur 100% of the cost in a remote metering system that could improve efficiency. Newer technology and full-scale metering would assist the limited manpower in the Village. All customers currently pay a flat rate (versus metered), so the system constantly battles lost revenue. Meters would monitor use and allow the village to run more efficiently.*

## *W. Main Waterline Improvements*

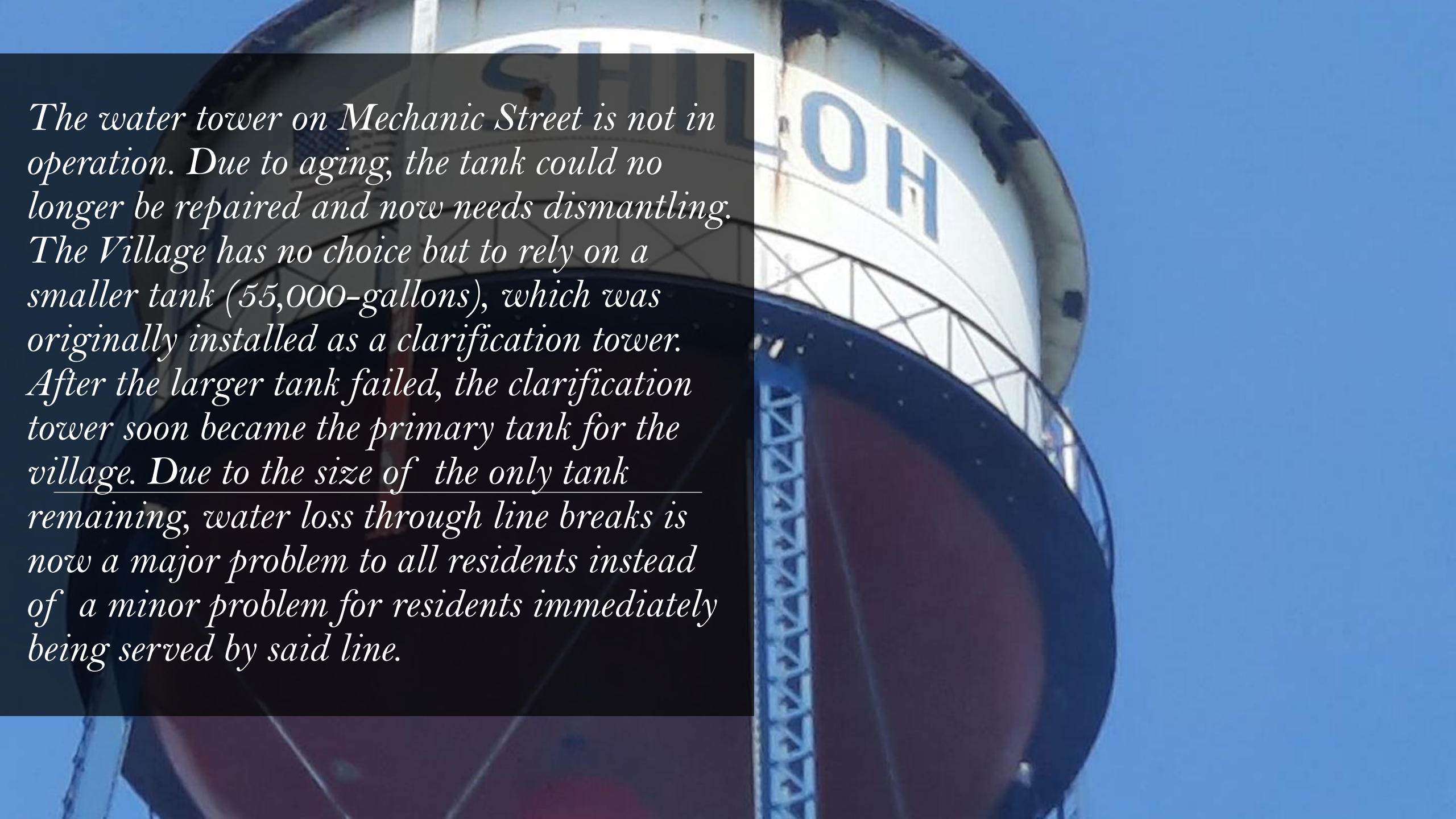
→ Replacement of approximately 7,525 linear feet of water lines, 6 fire hydrant, and 11 gate valves. This is a crucial element to reduce water loss. Each main water line break and inoperable valve causes Shiloh residents to be without water due to the low volume storage tank that is currently used.

*Water lines were installed in the 1940's, staff is constantly dealing with breaks, valve malfunctions and antiquated fire hydrants. The Village has limited manpower and must rely on neighboring villages to help repair water breaks when their schedule allows. This requires the water plant to operate "over and above" normal operations to maintain a level of water in the tower. Causing additional wear and tear on pumps, more chemicals, more costs, etc. Boil alerts, following the repairs, and monitoring also creates administrative delays.*



## *Water Tank Dismantling*

→ Dismantling of the Water Tower located on Mechanic Street. The 75,000-gallon water tower is no longer in service due to the age; built in the 1940s. Ohio EPA has approved the dismantling of the water tower after Findings and Orders were given to disconnect.



*The water tower on Mechanic Street is not in operation. Due to aging, the tank could no longer be repaired and now needs dismantling. The Village has no choice but to rely on a smaller tank (55,000-gallons), which was originally installed as a clarification tower. After the larger tank failed, the clarification tower soon became the primary tank for the village. Due to the size of the only tank remaining, water loss through line breaks is now a major problem to all residents instead of a minor problem for residents immediately being served by said line.*

# Projected Cost and Funding

## Project Cost

Design: \$178,750

Engineering: \$96,250

Permitting: \$20,000

Administration: \$20,000

Legal Ad: \$1,000

Construction: \$2,695,410

Total Project: \$3,011,410

## Funding Options

→ WSRLA Design Loan \$178,750

→ CDBG-Critical Infrastructure \$480,000 application submitted

→ OPWC Grant \$499,000 application prepared

→ Richland Cty ARPA grant \$500,000 funds requested

→ WSRLA Construction Loan Forgiveness \$1,232,410

→ WSRLA Construction Loan \$121,250



Shiloh's water rates are ranked 86 highest out of 403 entities. Our sewer rates are ranked as the 19<sup>th</sup> highest in the State of Ohio. Mayor and Council are aware of the hardship community members are facing with utility rates. We, as community leaders, need to take that into account when funding additional projects. Grants are a necessity for Shiloh not a want or hope.

## Project Grant Funding Need

The major problem in completing these necessary projects is affordability. Shiloh residents are already paying 5.12% of their annual income for water/sewer utility bills. This is due to a recent 4.75-million-dollar sewer plant. Many residents are on fixed incomes and will not be able to afford to pay for large debt payments. The Village is paying on six OWDA/EPA water & sewer loans currently. These projects were chosen first because they can help generate revenue and eliminate water loss leading Shiloh in the right direction to continue much needed improvements like developing a new well field and being able to complete general maintenance schedules. Which could lead to additional water customers, less water loss and in turn less revenue loss that can be used for much needed continued system upgrades.



**Rural Community  
Assistance Partnership**