



# Highland Lake Water System Improvements

**Project Planning Update**

**Department of Public Works**

**July 18, 2022**

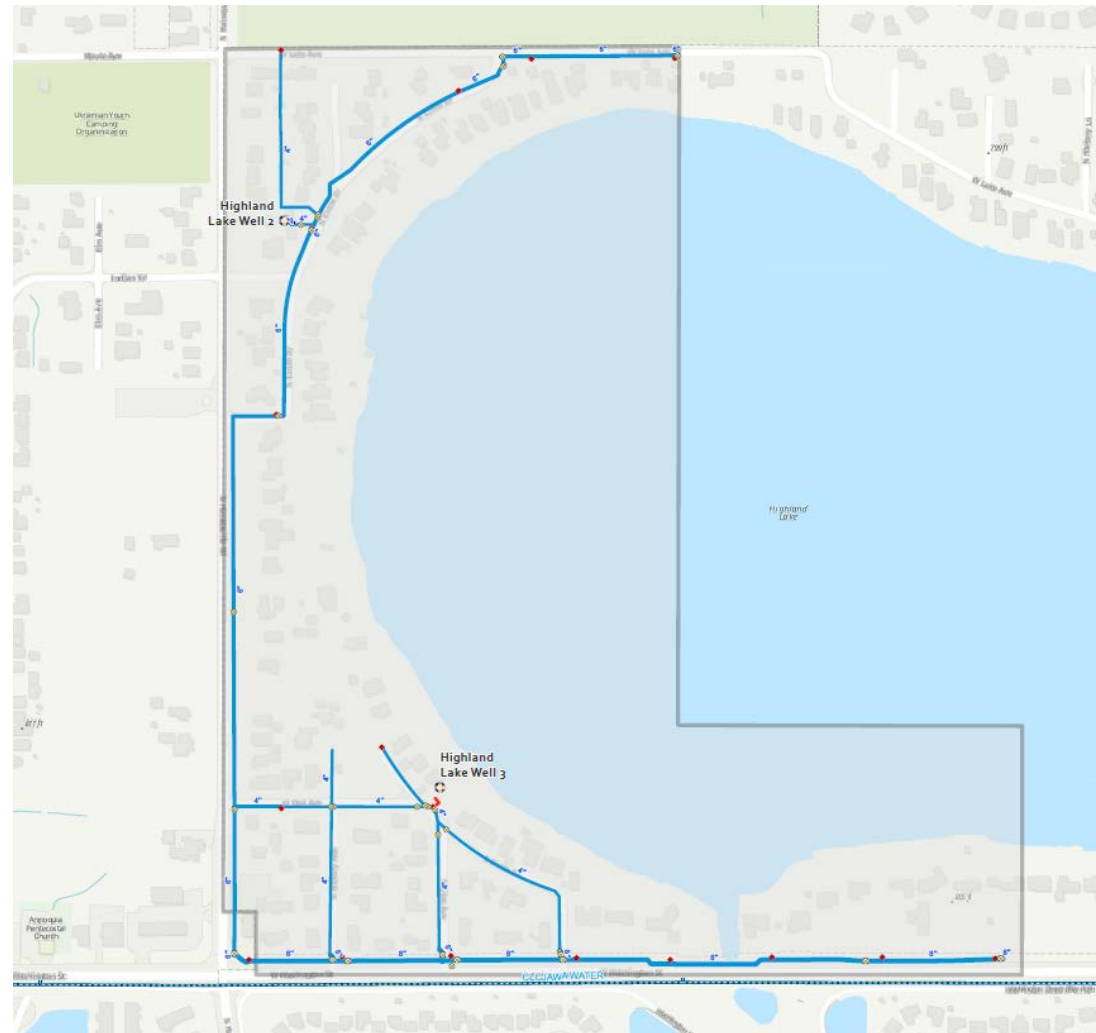
# Presentation Outline

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- ◆ **Highland Lake Water System Overview**
- ◆ **Need for Improvements**
- ◆ **Identified Improvements**
- ◆ **Possible System Interconnection**
- ◆ **Funding Source**
- ◆ **Next Steps**

# Highland Lake Water System

## Existing System Map



# Highland Lake Water System

## Existing System Data

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- **Serves 111 dwellings**
- **Average Day Demand = 17,000 gallons per day**
- **Water supply from 2 wells**
- **11,000 gallons of hydropneumatic tank storage**

# Need for Improvements

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- **As part of the LCPW Capital Improvement Program, we are evaluating system needs in a proactive, comprehensive manner. In 2020 we completed a conceptual evaluation for this water system**
- **Minimum modernization improvements needed:**
  - **Additional well pumping capacity (two wells)**
  - **Additional water storage (4,000 gallons)**
  - **Plan to retire underground storage structure at Chic Park**
- **Lake Michigan Water Source evaluated**

# Identified Improvements

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- **Near-term improvements:**
  - **Installation of 2 new wells**
  - **Installation of additional hydropneumatic storage**
- **Longer-term water source: Lake Michigan Water**
  - **Consistent with Lake County's goal of providing long-term reliable & resilient service**
  - **Consistent with approach to existing systems**
  - **Recommended by consultant**
- **LCPW intends to retain wells and storage for system resiliency**

# Possible System Interconnection With Highland Lake Water Company

- Serves 18 dwellings
- Water supply from 1 well
- System requires modernization
- An interconnection could benefit both systems, as each system offers resiliency benefits
- Separate discussions with the HLWC



# Funding Source

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**In 2021 the American Rescue Plan Act (ARPA) was signed into law to provide federal funding to local governments for pandemic response & recovery expenses**

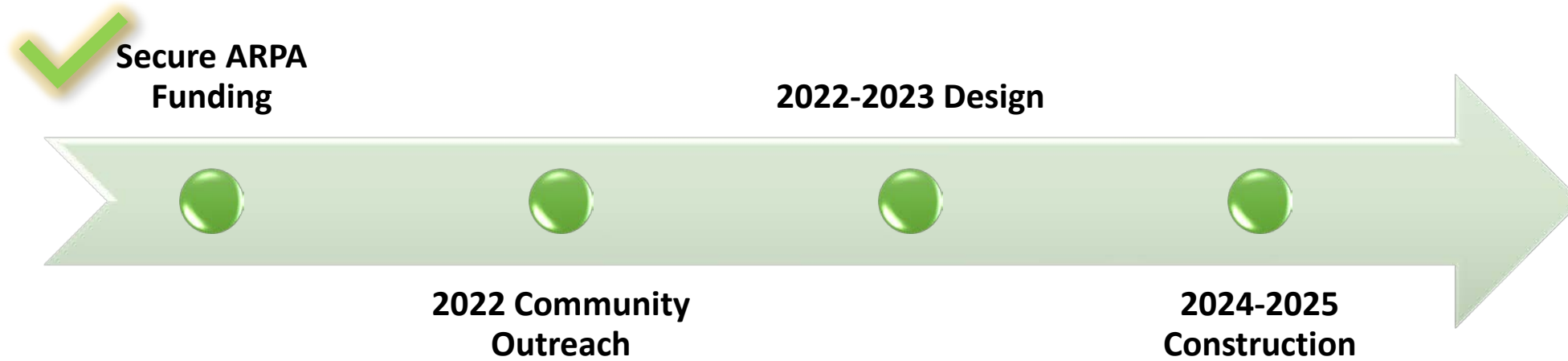
**The Lake County Board has awarded \$2.5 million of ARPA funds to improve the Highland Lake Water System**

**More information on ARPA is available on the County's:**

**<https://www.lakecountyiil.gov/4648/American-Rescue-Plan-Act>**



# Next Steps



# Thank you!

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## Connect with us!

- Online:  
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# Questions