



Wildwood Water System – Water Storage Study

Overview & Water Tower Site Selection

Department of Public Works

October 7, 2021

Presentation Outline

- ◆ **Department Overview**
- ◆ **Wildwood Water System Overview**
- ◆ **Site Selection**
- ◆ **Frequently Asked Questions**
- ◆ **Keeping You Informed**
- ◆ **Next Steps**
- ◆ **Community Questions**

Department Overview

- Created by County Board Resolution on October 9, 1962
- Provide drinking water and sanitary sewer services
- Administer testing, inspections, water & sewer permits
- Perform other government services
- Fast finance facts:
 - Funded by rates, not taxes
 - \$10M annual Capital Improvement Program budget



Department Overview

CIP Program Priorities

- ✓ Meet regulatory requirements
- ✓ Maximize life of existing assets
- ✓ Recapitalize existing capacity
- ✓ Meet tomorrow's capacity demands
- ✓ Meet goals of County Strategic Plan



Department Overview

Importance of Water Storage

Purpose of Water Storage :

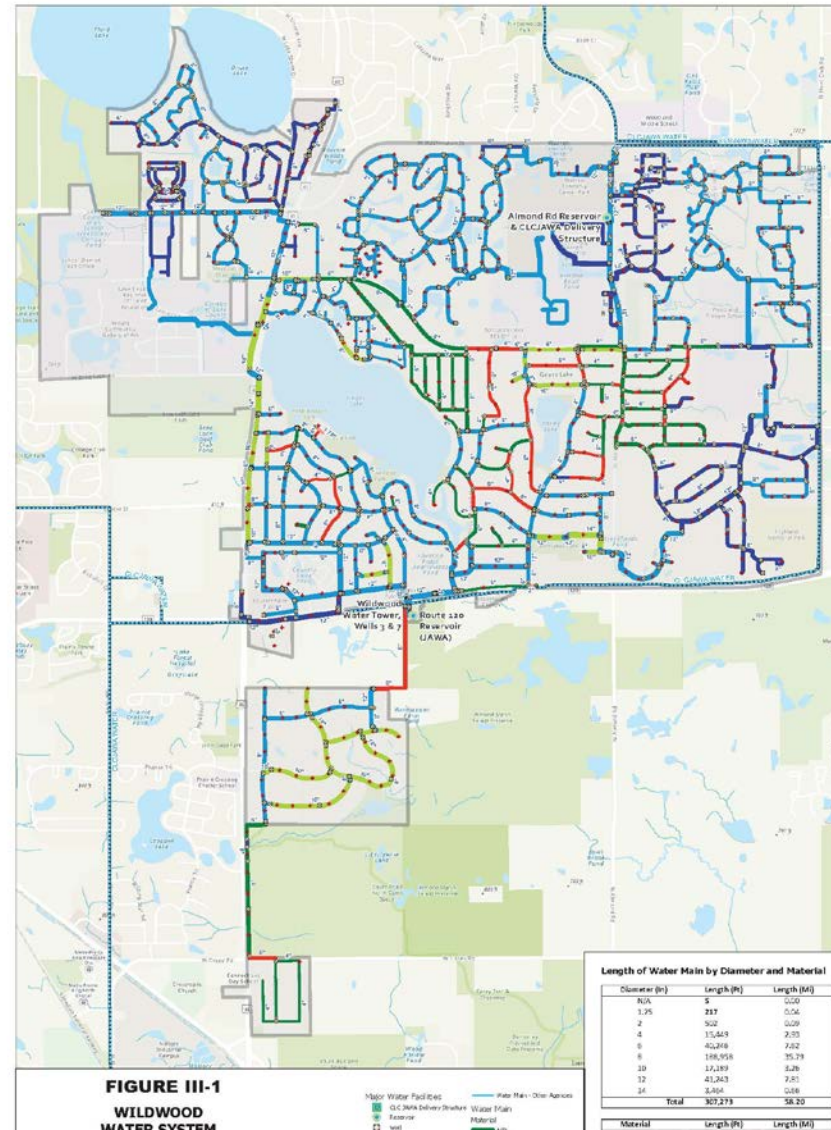
- **Sufficient volume of safe and reliable drinking water**
- **Maintain water service pressure**
- **Emergency Storage Supply – Fire Protection & Power Outage**
- **Equalization volume to meet peak demands**
- **Consistent Operations**

Is critical in case of:

- **Fire**
- **Failure or maintenance of CLCJAWA System to provide water**
- **Failure of water main transmission pipes**

Wildwood Water System

Existing System Map



Wildwood Water System

Existing System Data



- **Serves a population of approximately 14,000**
- **Average Day Demand = nearly 1 Million Gallons**
- **Water supply from CLCJAWA-Lake Michigan Water**
- **1.65 Million Gallons of Existing Storage - Two 750,000 gallon reservoirs – Rte 120 and Almond Road**
- **John Mogg Water Tower – 150,000 gallons – reached end of useful life**

Wildwood Water System

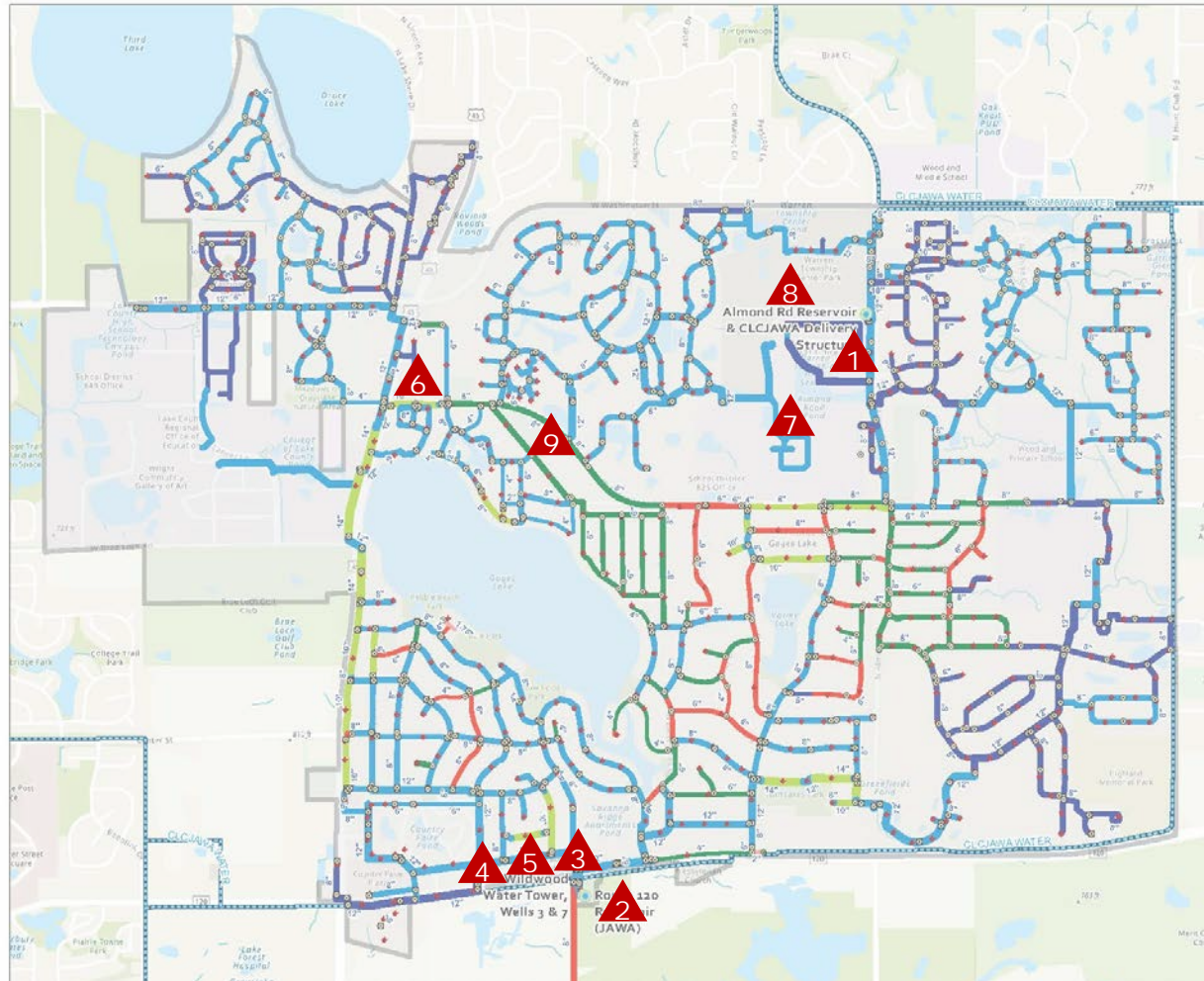
Water Storage



- **Current storage is 1.65 Million Gallons**
- **CLCJAWA recommends 3 days of average day storage**
- **Need an additional 1.25 Million Gallons of Storage**
- **Recommended need to provide elevated storage vs ground storage**

Site Selection

Sites Evaluated for Water Tower



- 1 ALMOND ROAD GROUND STORAGE RESERVOIR**
- 2 ROUTE 120 GROUND STORAGE RESERVOIR**
- 3 EXISTING JOHN MOGG ELEVATED TANK SITE**
- 4 ILLINOIS ROUTE 120 AND SEARS BLVD**
- 5 18650 AND 18656 ROUTE 120**
- 6 GAGES LAKE ROAD AND WRIGHT AVENUE**
- 7 WARREN TOWNSHIP HIGH SCHOOL**
- 8 WARREN TOWNSHIP MUNICIPAL COMPLEX**
- 9 18534 W. GAGES LAKE ROAD**

Site Selection

Evaluation of Storage Options



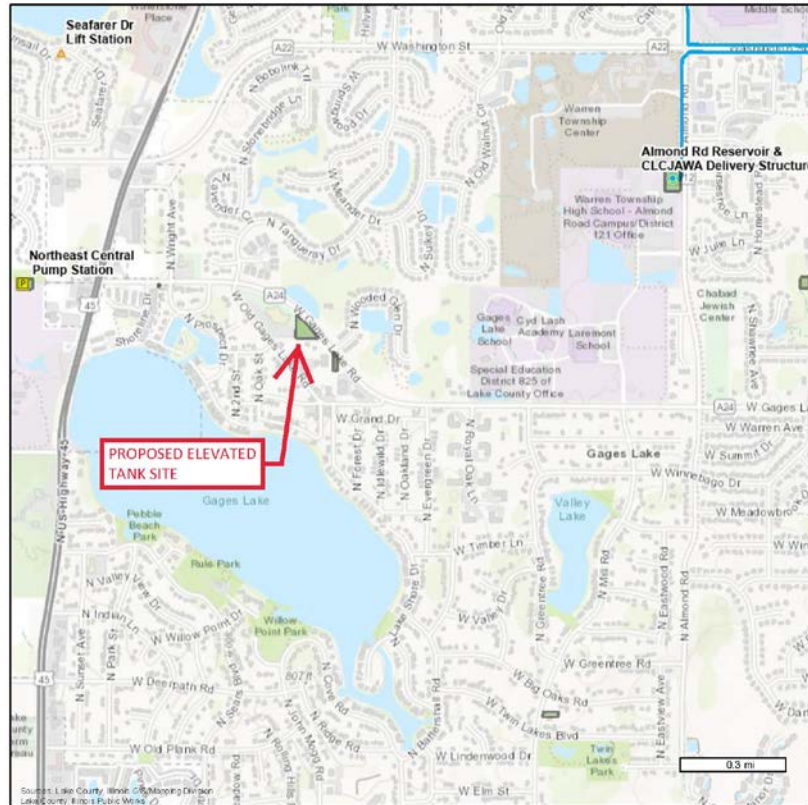
Identified Gages Lake Road at Dady Court as water tower location


- **Maximum benefit to overall system operation**
- **Property was donated to Lake County as part of Tangueray Meadows Subdivision in 1990 and designated on plans as future water tower site.**
- **Location is centralized between Rte 120 Reservoir Site and Almond Road Reservoir Site.**
- **Cost conscious choice**

Site Selection

Gages Lake Road Site

Gages Lake Road Site





Map Printed on 2/22/2021

Major Sewer and Water Facilities

- CLC JAWA Delivery Structure
- Flood Pump Station

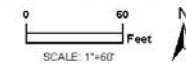
Acquisition

Complex

Disclaimer: The selected feature may not occur anywhere in the current map extent. A disclaimer is provided for each feature. A disclaimer is provided for each feature. A disclaimer is provided for each feature. A disclaimer is provided for each feature.



FIGURE V-10
18534 W OLD GAGES LAKE RD
POTENTIAL ELEVATED TANK LOCATION
WILWOOD WATER SYSTEM




 RHM INCORPORATED
 976 Campus Drive
 Mundelein, IL 60060
 P: 847.382.5369

Frequently Asked Questions

Q: What will the water tower look like? Will it be painted?

A: The tower will be white, without lettering (standard)

Q: Will the water tower affect my property value?

A: No known negative impacts

Q: What will the site look like from the street?

A: Landscaped frontage with community consultation

Q: Will this project impact flooding or traffic?

A: The design will include best practices to mitigate stormwater impacts. Traffic associated with the tower is limited to one visit per day by staff.

Keeping You Informed

2021 Outreach Efforts:

- Neighbor notification letters & calls (immediate neighbors & Wooded Glen Gardens HOA)
- HOA Presentation
- Hosting tonight's community meeting to inform & answer questions
- Project website

2022-2024 Outreach Efforts:

- Outreach to all customers on bills
- Postcard to nearby neighbors
- Project website updates

Next Steps

2021

- Design
- Communications and outreach

2022

- Landscape Design w/community input
- Communications and outreach

2023-2024

- Construction
- Communications and outreach

Thank you!

Connect with us!

- Online:
lakecountyiil.gov/publicworks
- Choose “Projects”
- Contact us:
publicworks@lakecountyiil.gov
- Alerts:
lakecountyiil.gov/CodeRED





Questions