

**MINUTES OF A COMMITTEE OF THE WHOLE MEETING  
OSWEGO VILLAGE PRESIDENT AND BOARD OF TRUSTEES  
OSWEGO VILLAGE HALL  
100 PARKERS MILL, OSWEGO, ILLINOIS  
June 22, 2021**

**CALL TO ORDER**

President Troy Parlier called the meeting to order at 6:01 p.m.

**ROLL CALL**

Board Members Physically Present: President Troy Parlier; Trustees Tom Guist, Kit Kuhrt, James Marter II, Terry Olson, Jennifer Jones Sinnott and Brian Thomas.

Staff Physically Present: Dan Di Santo, Village Administrator; Christina Burns, Asst. Village Administrator; Tina Touchette, Village Clerk; Jeff Burgner, Police Chief; Jennifer Hughes, Public Works Director; Rod Zenner, Community Development Director; Mark Horton, Finance Director; Scott McMaster, ED Director; Jenette Sturges, Community Engagement Coordinator, Marketing; Susan Quasney, Project Engineer; Tim Zasada, Asst. Public Works Director Utilities; and Karl Ottosen, Village Attorney; and Douglas Dorando, Village Attorney.

**PUBLIC FORUM**

Public Forum was opened at 6:01 p.m. There was no one who requested to speak. The public forum was closed at 6:01 p.m.

**OLD BUSINESS**

F.1 Update on the Alternative Water Source Evaluation – Part 2: Water Source Options and Key Considerations

Director Hughes addressed the Board regarding alternative water source options and key considerations. Most of northeast Illinois is currently in a drought. There are water issues and concerns. Conservation will be discussed at the next Board meeting. Cost for the water source will be brought forward at a future meeting. Baxter & Woodman representatives, Carolyn Grieves and Lauren Schuld attended in person and presented their evaluation:

**Overview**

- Part 1- purpose, need and options discussed at the June 8, 2021 Committee of the Whole
- Part 2- discussing tonight
- Part 3- conservation measures and drought impacts; discussing at the July 13, 2021 Committee of the Whole
- Part 4- public information meeting for all three communities (Oswego, Yorkville and Montgomery)
- Part 5- cost analysis with details
- Part 6- source selection

<b>Part 2 Overview</b>	<b>Study Approach</b>	<b>Key Considerations</b>	
		<ul style="list-style-type: none"> <li>• Sustainability of Water</li> <li>• Water Quality and Permitting</li> <li>• Governance and Operational Responsibility</li> <li>• Timeline</li> <li>• Oswego Internal System Improvements</li> </ul>	
<b>Fox River Option</b>	<b>DuPage Water Commission Option</b>	<b>Joliet Water Commission Option</b>	<b>Illinois American Water Option</b>

**Study Approach**

- Oswego used the deep sandstone aquifer as its water source.
- Illinois State Water Survey (ISWS) has projected that the deep aquifer is not sustainable for the future of this region.

- ISWS projects the region will be at severe risk of well depletion and unable to meet population growth and water demands by 2050, even with Joliet leaving the aquifer; have known it has been unsustainable for over 100 years.
- Will eventually require a new water supply.

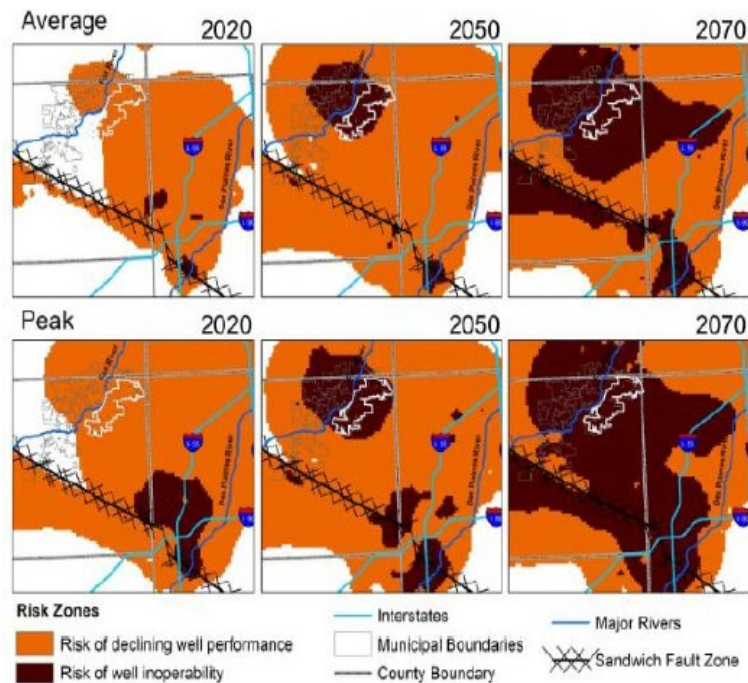
Part 1	Part 2
<ul style="list-style-type: none"> <li>– Existing water supply</li> <li>– Future demand projections</li> <li>– Oswego’s existing system</li> <li>– ISWS results</li> <li>– Overview of water source alternatives</li> </ul>	<ul style="list-style-type: none"> <li>– Non-cost key considerations</li> <li>– Detailed discussion of options               <ul style="list-style-type: none"> <li>▪ Oswego internal system improvements</li> </ul> </li> </ul>

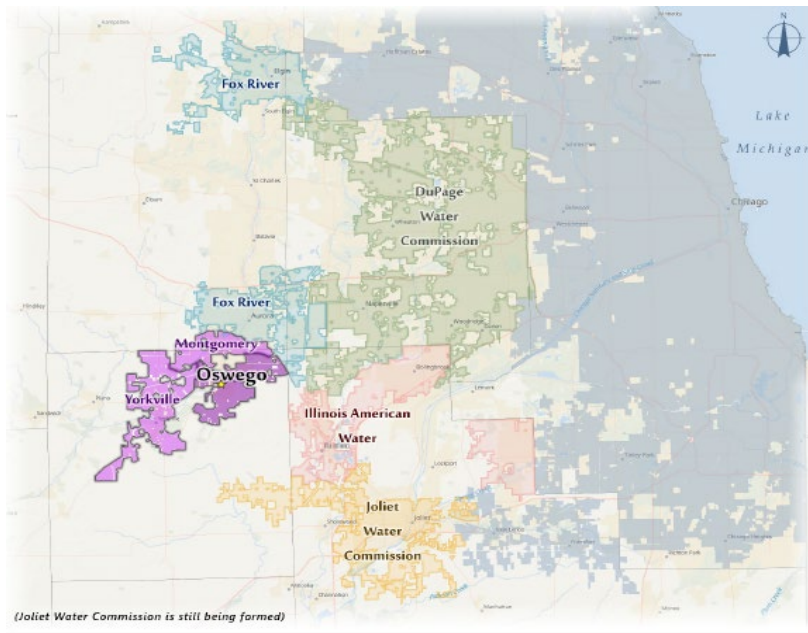


### Past Studies Performed Include...

- *Water Study* – HR Green, Inc., 2014
- *Sub-Regional Water Supply and Treatment Planning* – Engineering Enterprises, Inc., 2017
- *Feasibility Study to Receive Lake Michigan Water via the DuPage Water Commission* – AECOM Technical Services, Inc., 2017
- *An Addendum to the Feasibility Study to Receive Lake Michigan Water via the DuPage Water Commission (Draft Report)* – AECOM Technical Services, Inc., 2018

- White outline depicts Oswego’s boundaries





### Key Considerations

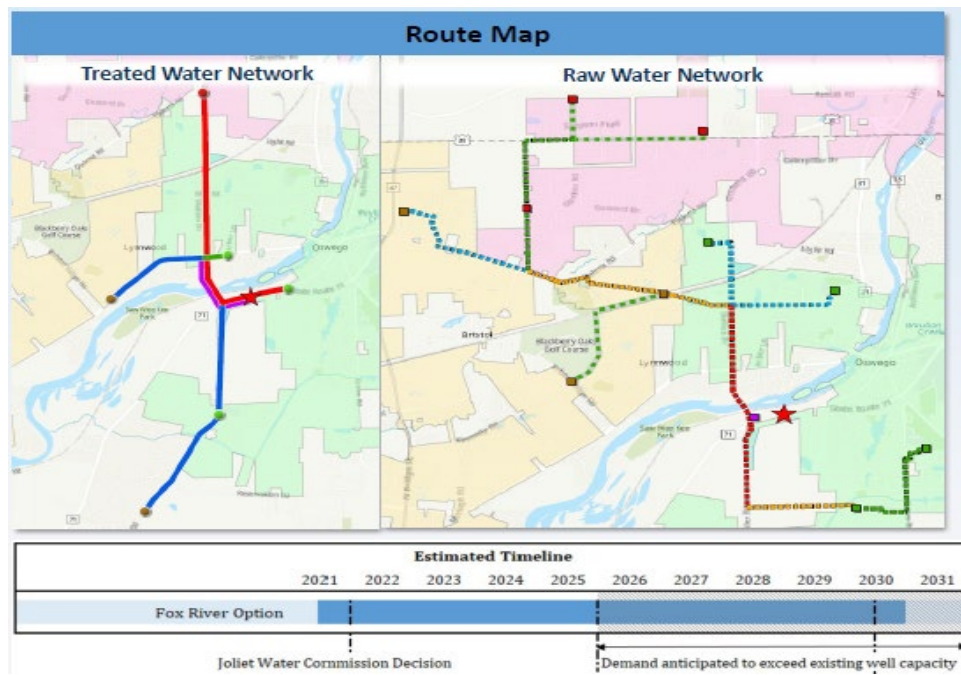
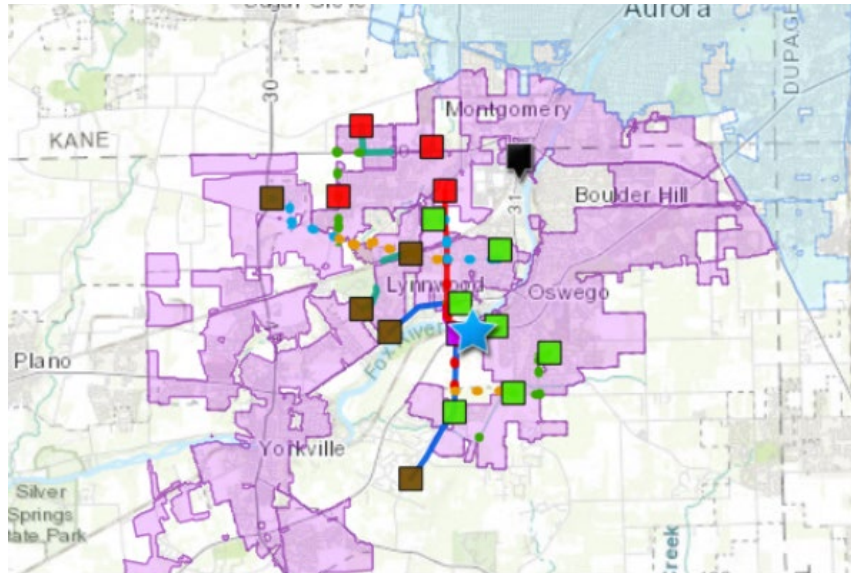
<b>Sustainability of Water Source</b>	<ul style="list-style-type: none"> <li>• The ability of the water source option to have sufficient water quantity to meet demand projections in 2050 and beyond</li> </ul>
<b>Water Quality and Permitting</b>	<ul style="list-style-type: none"> <li>• The quality and variability of the raw water source</li> </ul>
<b>Governance and Operational Responsibility</b>	<ul style="list-style-type: none"> <li>• The ability to maintain complete control of the water source, including operations and maintenance of infrastructure</li> </ul>
<b>Timeline</b>	<ul style="list-style-type: none"> <li>• The total project schedule, including design, permitting, easement acquisition, contract negotiations, and construction.</li> </ul>
<b>Internal System Improvements</b>	<ul style="list-style-type: none"> <li>• The improvements required to each community's water main, water storage facilities</li> </ul>












### Alternative Water Sources

#### Fox River Option

- Studied by EEI in 2016
- Network of 11 wells
  - Four would be required (in green)
  - Others could be abandoned
- Dash lines are supplemental water
- Three connection points; no connections in high zone
- Need to construct system to bring water into the plant and then move it back out hydraulically; Aurora and Elgin
- Aurora and Elgin have used the Fox River for over 20 years
- Needs to be evaluated on total demand
- IEPA will require testing, sampling and permitting plan; they will work with all three communities;
- Timeline is 9-11 years
- New well will be required

- Internal system improvements at connection points and in the high zone
- Northwest Water Planning Alliance doing a study
- Other issues coming with regulatory requirements
- River quality is better over the past 20 years
- Water levels vary from year to year; will not be able to predict
- Treatment process estimated for all items related to the river
- Dam removals and toxins behind the dams
- Surface water treatment takes a lot of work and monitoring by staff; always needs to be monitored and checked
- Will need a two treatment process to be covered
- Network of wells will need to be utilized;
  - Black box is Fox Metro

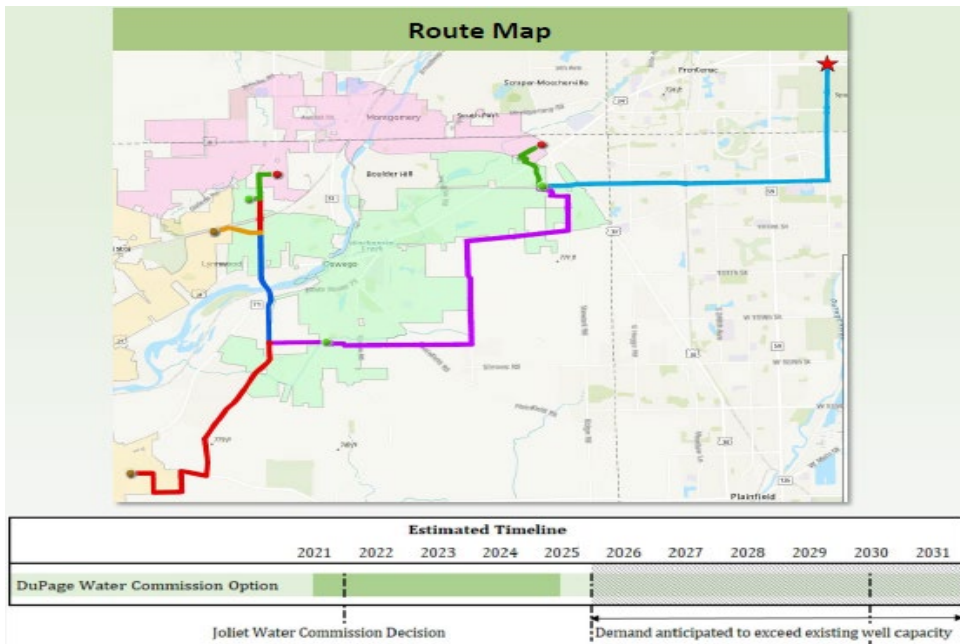


Required Infrastructure		
	Included	Fox River Option
—	Not Included	
○	Optional	
<b>Water Supplier</b>	New raw water intake	
	New water treatment plant	
	New raw water transmission main	
	New treated water transmission main	
	New/existing system upgrades	—
	Backup well network	
<b>Montgomery, Oswego, Yorkville</b>	New regional well	
	New receiving stations	
<b>Oswego</b>	Existing system improvements	
	New storage/pumping stations	
	New intermediate well	
	Maintain all existing wells	—

<b>Sustainability of Water Source</b>	<ul style="list-style-type: none"> <li>• Fox River Water</li> <li>• Low Flow/Seasonal Water quality restriction</li> </ul>	<ul style="list-style-type: none"> <li>• Network of wells required for backup</li> </ul>
<b>Water Quality and Permitting</b>	<ul style="list-style-type: none"> <li>• Lime Softening with Ultrafiltration (Class A)</li> <li>• Seasonal changes in water quality</li> </ul>	<ul style="list-style-type: none"> <li>• 3 miles downstream of Fox Metro Water Reclamation Facility</li> </ul>
<b>Governance and Operational Responsibility</b>	<ul style="list-style-type: none"> <li>• Intergovernmental agreement needed between Montgomery, Oswego, Yorkville</li> <li>• Shared ownership and control of source, treatment, and distribution</li> </ul>	
<b>Timeline</b>	<ul style="list-style-type: none"> <li>• Estimated 9-11 years</li> </ul>	
<b>Internal System Improvements</b>	<ul style="list-style-type: none"> <li>• Transmission Mains</li> <li>• New Wells</li> </ul>	<ul style="list-style-type: none"> <li>• New Storage</li> <li>• New Oswego well likely needed</li> </ul>

### Lake Michigan- DuPage Water Commission Option

- They did not consider Oswego coming in, but did plan for larger water usage
- Opportunity now, or they may not build a pipe big enough for Oswego use
- 29-mile transmission main line (see aqua line below)
- Three connection points, reservoir and pumping station at high zone
- Currently has capacity now, but will need improvements by 2050
- Costs spread across all communities
- Waiting on more information
- Green area depicts current customers/members



### Required Infrastructure

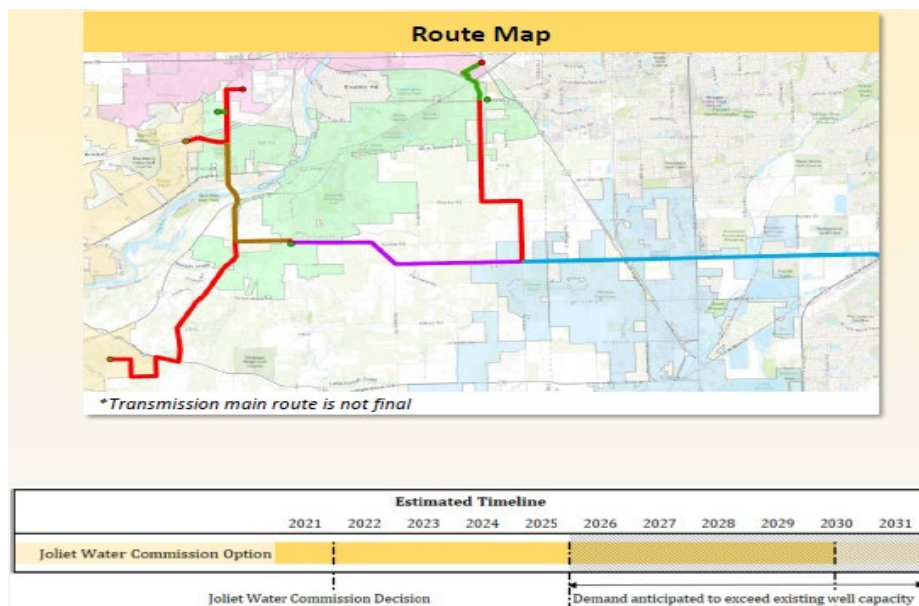
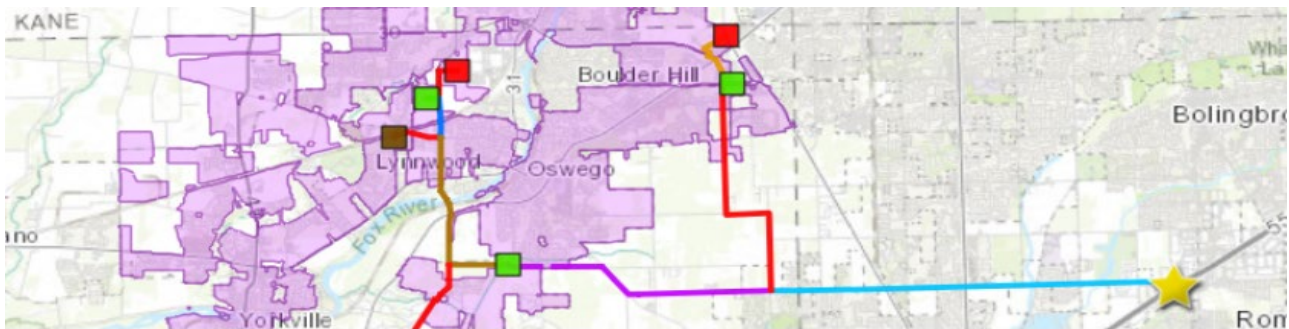
	Included Not Included Optional	DuPage Water Commission Option
<b>Water Supplier</b>	New raw water intake	—
	New water treatment plant	—
	New raw water transmission main	—
	New treated water transmission main	💧
	New/existing system upgrades	💧
	Backup well network	—
<b>Montgomery, Oswego, Yorkville</b>	New regional well	—
	New receiving stations	💧
<b>Oswego</b>	Existing system improvements	💧
	New storage/pumping stations	💧
	New intermediate well	—
	Maintain all existing wells	○

- Purchases water from Chicago
- Specific conservation requirements
- Less liability
- 4-5 years for permitting and construction
- Will not need a new well

Sustainability of Water Source	<ul style="list-style-type: none"> <li>• Lake Michigan water</li> <li>• No seasonal restrictions/ MDD:ADD 1.7</li> </ul>	<ul style="list-style-type: none"> <li>• Wells could be kept for emergency</li> <li>• Redundant/looped water mains in DWC</li> </ul>
Water Quality and Permitting	<ul style="list-style-type: none"> <li>• Chicago treats water</li> <li>• Chlorine disinfection of treated water (Class C)</li> </ul>	<ul style="list-style-type: none"> <li>• Seasonally consistent water quality</li> </ul>
Governance and Operational Responsibility	<ul style="list-style-type: none"> <li>• No direct ownership or control of source water</li> <li>• Indirect control of the transmission infrastructure</li> </ul>	
Timeline	<ul style="list-style-type: none"> <li>• Estimated 4-5 years</li> </ul>	
Internal System Improvements	<ul style="list-style-type: none"> <li>• Transmission Mains</li> <li>• New Storage</li> </ul>	<ul style="list-style-type: none"> <li>• Receiving Station/Pumping Stations</li> </ul>

**Lake Michigan- Joliet Water Commission Option**

- Commission is in process
  - Governance under formation now
- Will need modifications if going through Joliet
- Purchases water from Chicago
- Twelve communities in discussion
- Same connection points (see yellow star)
- Timeline- 2030
- New well required



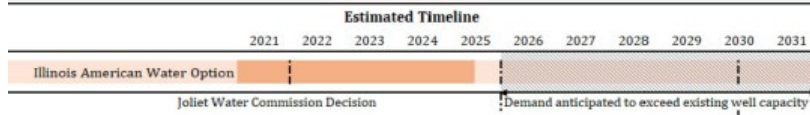
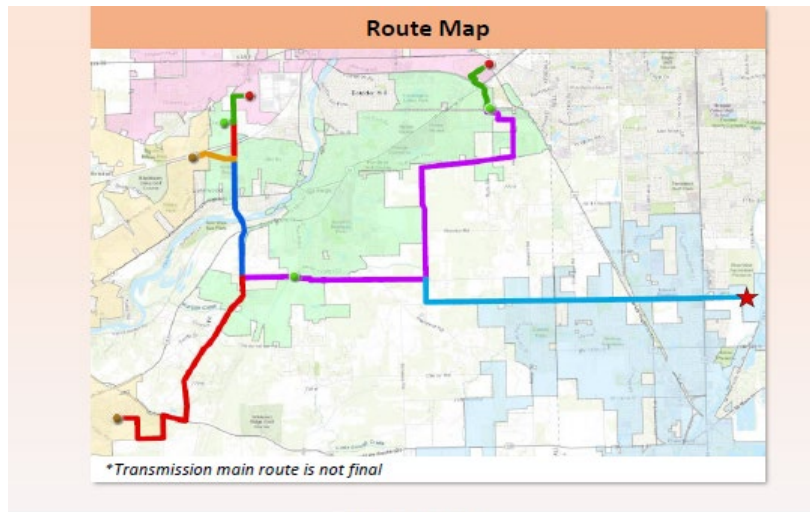
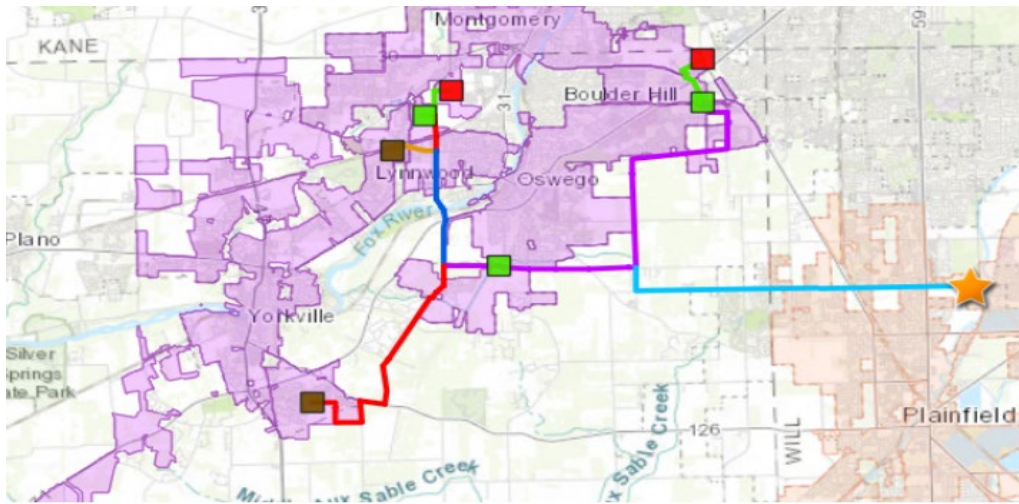
Required Infrastructure		
	Included	Joliet Water Commission Option
	Not Included	
	Optional	
<b>Water Supplier</b>	New raw water intake	—
	New water treatment plant	—
	New raw water transmission main	—
	New treated water transmission main	💧
	New/existing system upgrades	💧
	Backup well network	—
<b>Montgomery, Oswego, Yorkville</b>	New regional well	—
	New receiving stations	💧
<b>Oswego</b>	Existing system improvements	💧
	New storage/pumping stations	💧
	New intermediate well	💧
	Maintain all existing wells	○

<b>Sustainability of Water Source</b>	<ul style="list-style-type: none"> <li>• Lake Michigan water</li> <li>• No seasonal restrictions/ MDD:ADD 1.7</li> </ul>	<ul style="list-style-type: none"> <li>• Wells could be kept for emergency</li> <li>• Single supply/not looped main</li> </ul>
<b>Water Quality and Permitting</b>	<ul style="list-style-type: none"> <li>• Chicago treats water</li> <li>• Chlorine disinfection of treated water (Class C)</li> </ul>	<ul style="list-style-type: none"> <li>• Seasonally consistent water quality</li> </ul>
<b>Governance and Operational Responsibility</b>	<ul style="list-style-type: none"> <li>• Joliet Water Commission still being formed</li> <li>• No direct ownership or control of source water</li> </ul>	<ul style="list-style-type: none"> <li>• Indirect control of the transmission infrastructure</li> </ul>
<b>Timeline</b>	<ul style="list-style-type: none"> <li>• No earlier than 2030</li> </ul>	
<b>Internal System Improvements</b>	<ul style="list-style-type: none"> <li>• Transmission Mains</li> <li>• New Storage</li> </ul>	<ul style="list-style-type: none"> <li>• Receiving Station/Pumping Stations</li> <li>• New Oswego well likely needed</li> </ul>

### Lake Michigan- Illinois American Water Option

- Evaluating upgrades
- Private utility company
- Purchases water from Chicago
- Plainfield currently using (see orange star; usage is in the shaded orange)
- Transmission line (see aqua line)
- Governance has limits
- Timeline is 4-5 years
- No new well needed
- Sells to one company, then another company



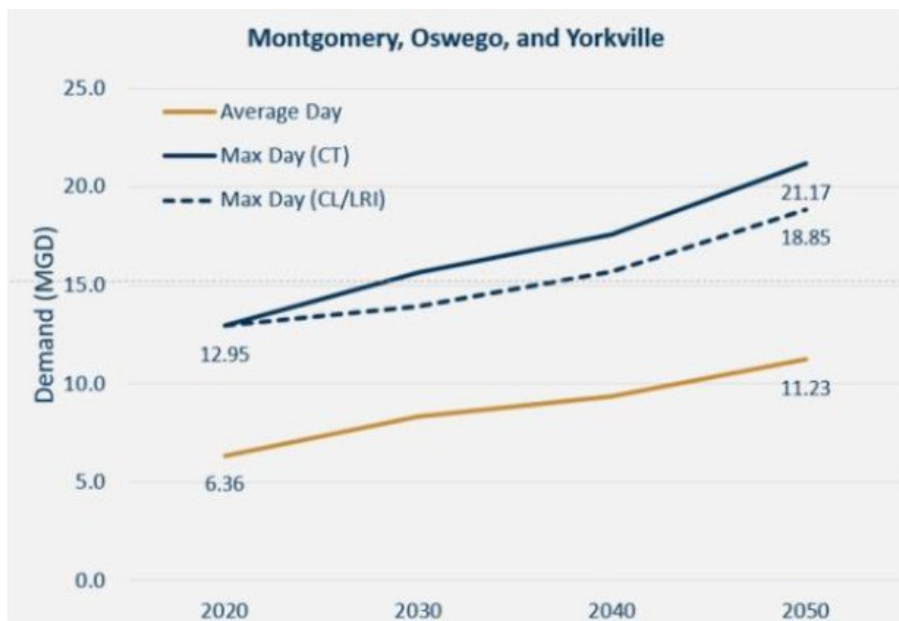


Required Infrastructure		
	Included	<b>Illinois American Water Option</b>
—	Not Included	
○	Optional	
<b>Water Supplier</b>	New raw water intake	—
	New water treatment plant	—
	New raw water transmission main	—
	New treated water transmission main	💧
	New/existing system upgrades	💧
	Backup well network	—
<b>Montgomery, Oswego, Yorkville</b>	New regional well	—
	New receiving stations	💧
<b>Oswego</b>	Existing system improvements	💧
	New storage/pumping stations	💧
	New intermediate well	—
	Maintain all existing wells	○

Sustainability of Water Source	<ul style="list-style-type: none"> <li>• Lake Michigan water</li> <li>• No seasonal restrictions/ MDD:ADD 1.7</li> </ul>	<ul style="list-style-type: none"> <li>• Wells could be kept for emergency</li> <li>• Unlooped supply mains</li> </ul>
Water Quality and Permitting	<ul style="list-style-type: none"> <li>• Chicago treats water</li> <li>• Chlorine disinfection of treated water (Class C)</li> </ul>	<ul style="list-style-type: none"> <li>• Seasonally consistent water quality</li> </ul>
Governance and Operational Responsibility	<ul style="list-style-type: none"> <li>• Illinois American Water is a private utility</li> <li>• No direct ownership or control of source water</li> </ul>	<ul style="list-style-type: none"> <li>• No direct control of the transmission infrastructure</li> </ul>
Timeline	<ul style="list-style-type: none"> <li>• Timeline still to be determined, estimated 4-5 years</li> </ul>	
Internal System Improvements	<ul style="list-style-type: none"> <li>• Transmission Mains</li> <li>• New Storage</li> </ul>	<ul style="list-style-type: none"> <li>• Receiving Station/Pumping Stations</li> </ul>

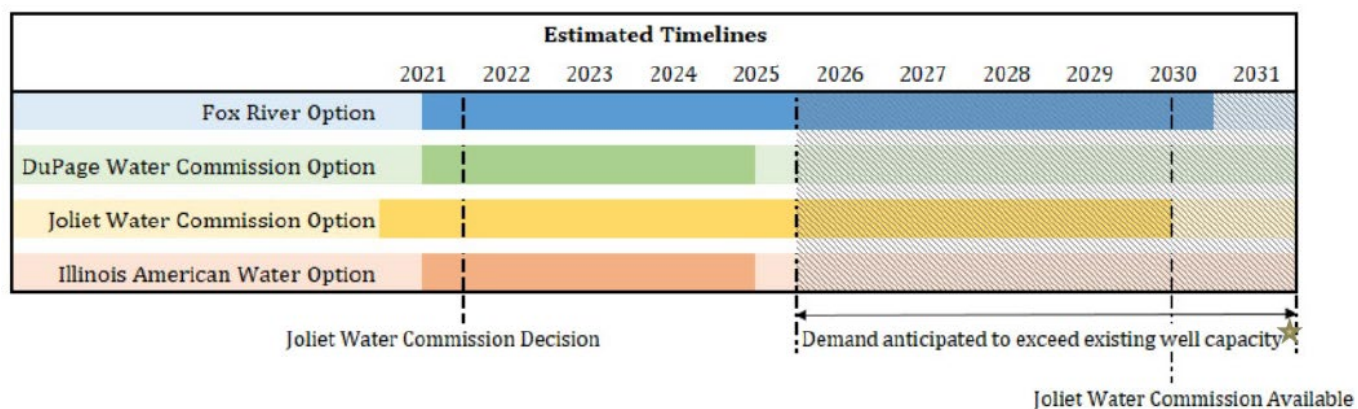
Summary

- Will need an allocation to get water from Lake Michigan
- Purchasing Lake Michigan water at a rate
- If choosing the Fox River option, it would be Oswego personnel maintaining the transmission lines and plant.



		Fox River Option	DuPage Water Commission Option	Joliet Water Commission Option	Illinois American Water Option
🔹	Included				
—	Not Included				
○	Optional				
<b>Water Supplier</b>	New raw water intake	🔹	—	—	—
	New water treatment plant	🔹	—	—	—
	New raw water transmission main	🔹	—	—	—
	New treated water transmission main	🔹	🔹	🔹	🔹
	New/existing system upgrades	—	🔹	🔹	🔹
	Backup well network	🔹	—	—	—
<b>Montgomery, Oswego, Yorkville</b>	New regional well	🔹	—	—	—
	New receiving stations	🔹	🔹	🔹	🔹
<b>Oswego</b>	Existing system improvements	🔹	🔹	🔹	🔹
	New storage/pumping stations	🔹	🔹	🔹	🔹
	New intermediate well	🔹	—	🔹	—
	Maintain all existing wells	—	○	○	○

### Estimated Timelines



★ *Estimated well capacity timeline for Oswego only. Montgomery and Yorkville well capacity timelines are under review at this time.*

### Next Steps

- Conservation
- Refinements of Joliet Water Commission and Illinois American Water Options
- Cost Estimates; late this summer
- Funding Alternatives
- Public Information Meeting
- Source Selection

Board, staff, and Baxter & Woodman representatives' discussion focused on drawdown; what percentage Aurora uses from their wells; our area aquifer is independent from others; blending; Fox River doing the heavy lifting; Aurora and Elgin using wells more because of the drought; how much of a draw if Oswego goes on the Fox River; Aurora uses 58% river and 42% well because of the drought; treatment plant will help with the hard water; water levels with dam removal; how much treatment over time; whether the treatment plant will be adaptable; how much innovation in processes; ultrafiltration technologies evolve, but not rapidly; how infrastructure for Fox River will be used to move to Lake Michigan; internal system in place and will depend on growth; may not be able to move to Lake Michigan from Fox River in the future, or it could be a significant cost; who will be paying for capacity increases; putting in one pipe and considering future from 2050 to 2150; how many gallons per day is treated and put back into the river; staff will look up; depth of intake crib in Lake Michigan is 200 feet below lake level; 7,900

feet of internal feet of improvements for all Lake Michigan options; what the issues are if choosing Lake Michigan; plan for outage maintenance; no real treatment concerns with Lake Michigan water; two days of storage capacity; keeping emergency wells for coverage; Joliet option still pending; Joliet is sharing draft contracts and information for building the commission; Mayors and Managers group also weighing in; will still cycle the wells; WRT system would come out if choosing Lake Michigan; during an emergency, levels would be monitored; maintaining the wells on a regular basis so they will work when needed; WRT system is under lease; lease expires in 2025; cost of WRT is \$400,000; have eight WRT's. There was no further discussion.

**NEW BUSINESS**

There was no new business.

**CLOSED SESSION**

There was no closed session.

**ADJOURNMENT**

The meeting adjourned at 7:05 p.m.

Tina Touchette  
Village Clerk