

**MINUTES OF THE REGULAR MEETING OF THE CITY COUNCIL  
OF THE UNITED CITY OF YORKVILLE, KENDALL COUNTY, ILLINOIS,  
HELD IN THE CITY COUNCIL CHAMBERS,  
800 GAME FARM ROAD ON  
TUESDAY, JUNE 8, 2021**

Mayor Purcell called the meeting to order at 7:00 p.m. and led the Council in the Pledge of Allegiance.

**ROLL CALL**

City Clerk Pickering called the roll.

Ward I	Koch	Present
	Transier	Present
Ward II	Milschewski	Present
	Plocher	Present
Ward III	Funkhouser	Present
	Marek	Present
Ward IV	Tarulis	Present (left at 7:38)
	Peterson	Present

Staff in attendance at city hall: City Clerk Pickering, City Administrator Olson, Chief of Police Jensen, Public Works Director Dhuse, Parks and Recreation Director Evans, EEI Engineer Sanderson, EEI Engineer Freeman, and Attorney Castaldo.

Staff in attendance electronically: Community Development Director Barksdale-Noble, Finance Director Fredrickson, Assistant City Administrator Willrett, and Senior Planner Engberg.

Clerk's Note: Due to COVID-19, in accordance with Public Act 101-0640 and Gubernatorial Disaster Proclamation issued by Governor Pritzker pursuant to the powers vested in the Governor under the Illinois Emergency Management Act, the United City of Yorkville encouraged social distancing by allowing remote attendance to the City Council meeting.

Members of the public were able to attend this meeting in person while practicing social distancing as well as being able to access the meeting remotely via Zoom which allowed for video, audio and telephonic participation.

A meeting notice was posted on the city's website on the agenda, minutes and packets webpage with instructions regarding remote meeting access and a link was included for the public to participate in the meeting remotely: <https://us02web.zoom.us/j/87263727900?pwd=UnRZR1dRbVNUdzZiNTBpWGlrZ3RYZz09>. The Zoom meeting ID was 872 6372 7900.

**QUORUM**

A quorum was established.

**AMENDMENTS TO THE AGENDA**

None.

**PRESENTATIONS**

None.

**PUBLIC HEARINGS**

None.

**CITIZEN COMMENTS ON AGENDA ITEMS**

Darren Crawford, President of the Yorkville Library Board of Trustees, spoke regarding the Mayor's proposed appointments of three new individuals to the Library Board. He gave the educational history and background of the current members whose terms expired. Mr. Crawford stated that he would like the three current members to be re-appointed instead of appointing three new members.

Russ Walter, Yorkville Library Board Trustee, spoke regarding the Mayor's proposed appointments for the Library Board. He asked that the three current members whose terms were expired be re-appointed.

Jason Hedman, Yorkville resident, spoke and said that he was one of the Library Board Trustees who was slated to be replaced tonight with someone else. He thanked the council for the opportunity they gave him to serve the Yorkville community over the past four years as a library trustee. He said it was his pleasure to support a resource that his family enjoys. His goal is not to force re-appointment. The law states that it is the Mayor's responsibility to appoint members. He stated that the other two individuals

who are also not being re-appointed are two of the most professional, involved, and forward-thinking trustees that he worked with on the board and one of whom has a master's degree in Library Science. He said the Library Board was responsible this last fiscal year for the management of over \$1.7 million in tax dollars. He said the council's decision in approving the Library Board appointments is the only means they will have to influence the management of these tax dollars going forward.

Judy Somerlot, Friends of the Library member, spoke regarding the Mayor's proposed appointments for the Library Board. She thanked the council for the opportunity to speak and spoke about the council's responsibility for appointments. She said the Illinois Local Library Act gives the Mayor the authorization to appoint Library Board members; however, that comes with the approval of the City Council. The Act provides that the appointment is made with reference to the candidates' fitness for such office. She stated it was the council's responsibility to verify that these appointees are able to do all of the things they need to do for the Library Board.

**CONSENT AGENDA**

1. Minutes of the Regular City Council – May 25, 2021
2. Bill Payments for Approval
  - \$ 260,869.20 (vendors – FY 21)
  - \$ 359,785.49 (vendors – FY 22)
  - \$ 170,226.25 (wire payments)
  - \$ 334,975.43 (payroll period ending 5/28/21)
  - \$ 1,125,856.37 (total)

Mayor Purcell entertained a motion to approve the consent agenda. So moved by Alderman Peterson; seconded by Alderman Koch.

Motion approved by a roll call vote. Ayes-8 Nays-0  
Koch-aye, Milschewski-aye, Funkhouser-aye, Tarulis-aye,  
Transier-aye, Plocher-aye, Marek-aye, Peterson-aye

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**REPORTS**

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**MAYOR'S REPORT**

**Margaritas en Mayo Event**

Mayor Purcell reported that the first Margaritas en Mayo event was held last Thursday and despite the windy weather, everyone had a great time and he received several requests for the event to be held next year.

**4<sup>th</sup> of July Celebration**

Mayor Purcell reported that due to 4<sup>th</sup> of July falling on a Sunday this year, 4<sup>th</sup> of July activities will be held on Saturday, July 3<sup>rd</sup>.

**Resolution 2021-28**

**Authorizing Acceptance of a Bid from D. Construction, Inc.  
for the Rebuild Illinois – Fox Hill Improvements  
in the amount not to exceed \$1,620,515.73  
(CC 2021-33)**

Mayor Purcell entertained a motion to approve a Resolution Authorizing Acceptance of a Bid from D. Construction, Inc. for the Rebuild Illinois – Fox Hill Improvements in the amount not to exceed \$1,620,515.73. So moved by Alderman Funkhouser; seconded by Alderman Plocher.

Motion approved by a roll call vote. Ayes-8 Nays-0  
Milschewski-aye, Funkhouser-aye, Tarulis-aye, Transier-aye,  
Plocher-aye, Marek-aye, Peterson-aye, Koch-aye

**Fox Hill Subdivision Roadway Improvements –  
Construction Engineering Agreement  
(CC 2021-34)**

Mayor Purcell entertained a motion to approve a Fox Hill Subdivision Roadway Improvements – Construction Engineering Agreement. So moved by Alderman Marek; seconded by Alderman Transier.

Motion approved by a roll call vote. Ayes-8 Nays-0  
Funkhouser-aye, Tarulis-aye, Transier-aye, Plocher-aye,  
Marek-aye, Peterson-aye, Koch-aye, Milschewski-aye

**Public Works Dump Truck Rehabilitation Quote  
(CC 2021-35)**

Mayor Purcell entertained a motion to approve the public works dump truck rehabilitation quote. So moved by Alderman Tarulis; seconded by Alderman Peterson.

Motion approved by a roll call vote. Ayes-8 Nays-0  
Tarulis-aye, Transier-aye, Plocher-aye, Marek-aye,  
Peterson-aye, Koch-aye, Milschewski-aye, Funkhouser-aye

**Memorandum of Understanding with ComEd  
regarding Corneils Road Repair  
(CC 2021-36)**

Mayor Purcell entertained a motion to approve the Memorandum of Understanding with ComEd regarding Corneils Road Repair. So moved by Alderman Milschewski; seconded by Alderman Marek.

Motion approved by a roll call vote. Ayes-8 Nays-0  
Transier-aye, Plocher-aye, Marek-aye, Peterson-aye,  
Koch-aye, Milschewski-aye, Funkhouser-aye, Tarulis-aye

**Appointments to Boards and Commissions  
(CC 2021-37)**

Mayor Purcell entertained a motion to approve the appointments of Ruben Rodriguez to the Board of Fire & Police Commission to a term ending May 2024; Sue Shimp, Bret Reifsteck and Tara Schumacher to the Library Board to terms ending May 2024; Rusty Hyett and Victor Perez to the Park Board to terms ending May 2026 and Jeff Burgner to the Police Pension Fund Board to a term ending May 2023. So moved by Alderman Plocher; seconded by Alderman Marek.

It was asked if the appointments could be separated to be voted on individually instead of as a group. Mayor Purcell said the council could vote on these separately; however, he preferred that his appointments be voted on as a group. He understands that some people would like other people appointed; however, appointments are made by the Mayor and these are his choices for appointments.

Mayor Purcell said that he had received a few questions from council members on his appointments prior to the meeting. One of the questions he received was about the proposal to move the city's preschool program into the library which the Library Board was not in favor of. He said that at the last Library Board meeting that he and city staff members attended to discuss the proposal he felt there had been a good discussion about the proposed idea and Library Board members had indicated they had a few unanswered questions about the proposal that they wanted to look into. Mayor Purcell left the meeting thinking the discussion on working together was going to continue to take place. He stated that later that evening after he left the meeting, the Library Board recessed the meeting and then they came back into session and voted to end the conversation with the city. He said the city is looking at different options for the preschool that do not involve using the library. He stated that his appointments have nothing to do with forcing a preschool into the library.

Mayor Purcell said there were several actions taken by the Library Board that he was very disappointed with. The first is that it has been almost a month since that board meeting and he has not yet been contacted by the board president informing him that the board wants to go in a different direction for the library. The next item is that the Library Board had their library staff comment at that meeting about the preschool proposal. Mayor Purcell heard one library staff member comment during the meeting that "this building is not an appropriate place for young children". He said that if this is an indication of how the library staff thinks, and the Library Board is condoning that – then he is really struggling with this type of attitude. Additionally, since that meeting, the library has now had a committee meeting on forming a library district. Forming a district could increase the library's expenses by over \$100,000 per year. To pay for those expenses, they are looking at forcing taxpayers into their library district. Mayor Purcell stated that when he ran for Mayor, the idea of forced annexation was one of the hottest issues. He also mentioned that he is looking for a group of board members who are interested in working with the school district. He stated that he has heard from several school board members and several administrators at the school, that their relationship with the library is shaky at best. He said pre-COVID, the library's numbers were decreasing, and the board's answer is that they should bring more people into the taxing body. He doesn't think the answer is forming a new taxing body and he doesn't feel the residents need bigger government. Mayor Purcell thinks that what the city needs is a group that wants to work with others. He said that the city works well with the schools, county, health department, and the fire district.

Discussion took place regarding the process. It was mentioned that one of the appointees to the Library Board had not submitted their application form, so the council members did not have any information as to that appointee. It was also discussed that there was not any type of public advertisement indicating that the city was seeking candidates to be appointed to the Library Board.

Alderman Funkhouser made a motion to remove the three Library Board appointments to separate them for further consideration at a later date; seconded by Alderman Tarulis.

Motion to amend defeated by a roll call vote. Ayes-3 Nays-5  
Koch-nay, Milschewski-aye, Funkhouser-aye, Tarulis-aye,  
Transier-nay, Plocher-nay, Marek-nay, Peterson-nay

Original motion approved by a roll call vote. Ayes-5 Nays-3  
Plocher-aye, Marek-aye, Peterson-aye, Koch-aye,  
Milschewski-nay, Funkhouser-nay, Tarulis-nay, Transier-aye

**PUBLIC WORKS COMMITTEE REPORT**

No report.

**ECONOMIC DEVELOPMENT COMMITTEE REPORT**

**Comprehensive Plan – Future Land Use Review  
(EDC 2021-25)**

Senior Planner Engberg told the council that at the end of March, the Kendall County Comprehensive Land Plan and Ordinance Committee held a meeting to discuss potential future land uses south of the river along West Highpoint Road which is going to become South Eldamain Road as part of the Eldamain Road bridge and roadway expansion project. The bridge and roadway expansion has potential to provide development and land uses different than those projected when the county and city did their existing comprehensive plans. Kendall County is looking at designating the county portion of the areas east and west of S. Eldamain Road as mixed-use business which would allow for offices, wholesale, and light industrial uses. The county has asked if the city would consider changing its' portion of land on the east side of S. Eldamain Road from estate/conservation residential land use to general industrial.

Planner Engberg said that he is looking for comments from the council to take back to Kendall County. One item to consider is that the city's 2016 comprehensive plan has a ten-year planning horizon. When the 2016 comprehensive plan was developed it was not thought that these outer edges of the city would be developed within ten years and the zoning designations were put in as a placeholder. Staff is looking to start the update process for a new comprehensive plan in 2023-2024 in order to have it completed by 2026. He mentioned the council might want to wait and evaluate this area once the S. Eldamain Road project is complete. He also mentioned that Metra Rail is currently conducting their study to see where rail access would go. Additionally, this area has no water or sanitary facilities yet. It should be noted that the comprehensive plan is a guide for development and is not set in stone.

Community Development Director Noble said there are a few items for council to consider. One, is that when the city looks at changing its' comprehensive plan, they get the owners with property in the area as stakeholders. She does not believe that the county has reached out to these landowners to see how they envision their property developing. She said that most likely if these properties develop, they will want to annex to the city so they can get their utilities from the city. She noted that at this point, city utilities do not extend to this area.

Alderman Funkhouser commented that he thinks this makes sense to look at a higher use once the road improvement project is completed; however he has two concerns. The first is where the road makes the jog, immediately south of the river, the parcel of land where on the east side is forest preserve and on the west side is forest preserve. He feels this triangle of land from Fox Road to the new S. Eldamain Road and the forest preserve should be kept as estate residential because it is located between forest preserve land on both sides and he doesn't think industrial should be located between the two forest preserves. His second concern is that for everything south of Fox Road to Route 71, the county is proposing the city convert an area of almost 3000 feet of depth. There is one county subdivision located near there, and he thinks the city may get a lot of pushback from those county residents. He thought that area should be made a little shallower and not extend that close to those residents. Mayor Purcell asked staff to forward the comments to the county.

**PUBLIC SAFETY COMMITTEE REPORT**

No report.

**ADMINISTRATION COMMITTEE REPORT**

No report.

**PARK BOARD**

**Golf Outing**

Parks and Recreation Director Evans reported that the joint city/Yorkville Educational Foundation golf outing would be held on June 10<sup>th</sup> and they have close to 100 golfers.

**Social Gathering**

Parks and Recreation Director Evans reported that the Social Gathering event would be held on June 11<sup>th</sup> from 6:30 p.m. to 9:30 p.m. at Riverfront Park. The Whiskey Romance Band will perform starting at 6:30 and there will be fireworks at 9:30.

**PLANNING AND ZONING COMMISSION**

No report.

**CITY COUNCIL REPORT**

No report.

**CITY CLERK'S REPORT**

No report.

**COMMUNITY & LIAISON REPORT**

**KenCom**

Alderman Funkhouser reported that KenCom held their quarterly board meeting and issued their press release for their license plate reader program that is being implemented.

**Aurora Area Convention & Visitors Bureau**

Alderman Funkhouser reported that the AACVB held their board meeting and discussed some of the business re-openings. The Paramount theater in Aurora will be opening as well as Raging Waves Waterpark in Yorkville. He said that finances for the AACVB exceeded their expectations during the pandemic. They are also exploring the idea of moving the AACVB offices to another location.

**STAFF REPORT**

No report.

**MAYOR'S REPORT (cont'd)**

**COVID-19**

Mayor Purcell thanked Lynn Dubajic for all of her hard work in helping the health department with the COVID clinic. He thanked the council for their support in letting the health department use the Prairie Pointe building for the COVID clinic as well as their support of Yorkville businesses during the pandemic. He also thanked the school board for keeping the Yorkville schools open during the pandemic and giving parents a choice between on-site versus remote learning for their children.

**City Building Updates**

(CC 2021-04)

Administrator Olson said that in the next couple of meetings there will be discussion on the construction manager versus a general contractor for the Prairie Pointe building renovations. He will be sending out a tentative schedule for the construction buildout for the Prairie Pointe building. Staff is trying to lay out a schedule of the items that the council will need to review and approve. In general, the intent is to give council all of the big picture updates that need approval and then staff will be doing most of the internal approvals of the construction documents and bidding materials that are more administrative in nature.

Administrator Olson said that staff did a walk-through of the Public Works building with Kluber last Thursday. Alderman Funkhouser asked about the potential public partnership with the Kendall Area Transit (KAT) for the Public Works facility. Administrator Olson said that Kendall County Administrator Koeppel had approached him and said that KAT, as a public transit agency, has availability to funding streams at the federal/state level that the city does not have access to. KAT currently has ~\$300,000 to be used for a facility. They can't use this money for rent and they can't give it to Kendall County since the county is the parent entity of KAT. Kendall Area Transit is an entity that needs space and they might have access to funding if something could be worked out. Additionally, there might be some efficiencies to sharing Public Works space with KAT. It was asked how the contract would work with Kluber if the city is working with KAT. Administrator Olson said that the city contract was between the city and Kluber only. KAT would need to negotiate with Kluber separately and the county board would need to sign off on that contract. Kluber has indicated that if KAT also signs a contract with Kluber, there may be some cost efficiencies.

**PRESENTATIONS (cont'd)**

**Water Study**

**Alternative Water Source Study (AWSS) Update Overview**

(CC 2021-38)

Jeffrey Freeman, from Engineering Enterprises, Inc., gave a presentation on water source sustainability options for the city (*see attached*). The purpose of the presentation was to give an overview of the water source study update that EEI conducted for the city which establishes the need for an alternative water source for the future. The city will work through the evaluation over the next several months in anticipation of making a decision by the end of the year as to which water source direction the city would

like to go. Implementation of a new water source could take up to a decade to put in place. When it comes to water source sustainability, the Illinois State Water Survey (ISWS) has been modeling the deep-water aquifer system. Currently, all of the city's wells draw their water from a deep-water aquifer that covers seven states in the Midwest. Within the last few weeks, EEI received updated information from the ISWS. The ISWS modeling already shows a risk of declining well performance in portions of Kendall County. If communities keep using the deep-water aquifer as their sole source of water, and alternative water sources are not selected, by 2050, this risk area is projected to encompass Yorkville and by 2070, it is projected that there is a risk of well inoperability, especially during peak water use times. The aquifer is currently being pumped at an unsustainable rate.

Alternative water supply sources which can be considered include the Fox River, Lake Michigan water via the Joliet Area Water Commission, Lake Michigan water via the DuPage Water Commission or Lake Michigan water through the Illinois Lake Water Company, which is a private utility company.

Within the Yorkville region, if the Fox River is selected, a back-up supply source is still needed. The river will have a restricted low flow level which means that if the river is below a certain level, then the city would not be allowed to withdraw from the river; therefore, the city would need a back-up supply source of water to be able to meet the water demands in our system. Both Elgin and Aurora use the Fox River for water and both communities use their wells as their back-up water source. For example, Elgin currently uses 10% of the deep-water aquifer via their wells to supplement their water supply from the Fox River.

If the Fox River is selected, there are two options: Yorkville could choose the Fox River independent from Montgomery or Oswego or a sub-region could be formed in which Montgomery, Oswego, and Yorkville could join together to utilize the Fox River as a source of water. If a sub-region is formed, there might be some economies of scale. A form of governance would need to be determined as well.

The alternative to water from the Fox River is water from Lake Michigan. The Supreme Court has set a diversion limit on the amount of Lake Michigan water that can be used by Illinois. That limit is set at 3,200 cfs. The Illinois Department of Natural Resources (IDNR) manages the Lake Michigan Allocation and has indicated that currently there is sufficient diversion remaining to provide water to Joliet and the Joliet area communities that are currently considering connection. To use Lake Michigan water, there are three supply options: Joliet Area Water Commission, DuPage Water Commission, and the Illinois Lake Water Company/Plainfield.

The Joliet Area Water Commission is a new system being formed which will be purchasing Lake Michigan water from the City of Chicago. There are currently twelve communities in discussion about joining this commission and if Yorkville chooses to join this commission now, there is an opportunity to be a charter member. A benefit of being a charter member is the ability to impact the governance of the commission by helping to formulate the bylaws for the commission.

The DuPage Water Commission is an existing system that also purchases Lake Michigan water from the City of Chicago. It was organized in the 1980s and has twenty-three charter communities along with six subsequent communities for a total of twenty-nine communities currently being served. The commission is broken down into six districts and the 13 member Water Commission Board includes one municipal representative from each of the six districts, one county representative from each of the six districts, and the County Board Chairman who also serves as the Chairman of the Water Commission Board. There have been some initial discussions about representation by the Montgomery, Oswego, and Yorkville area and how that would be structured, but nothing has been finalized yet.

The Illinois Lake Water Company/Plainfield is a private utility that brings Lake Michigan water from Bedford Park, who receives water from Chicago. In this option, Yorkville would just be purchasing water from a private utility per the contract with the utility.

Engineer Freeman said there are several items to consider when making a decision on the alternative water source. Items to consider include costs, risk, water quality, management/staffing, control/governance, and sustainability/quantity. EEI is going to create a weighted decision matrix that council members can use to rank what is most important to them and their constituents.

Engineer Freeman said that the Joliet Area Water Commission should have refined cost estimates ready in July or August. By September, the cost analysis should be completed for all alternatives. After the cost analysis is complete, there will be a public information/open house meeting. He expects to then have a detailed alternative water source study presentation for the City Council in October. It is anticipated that the council could select the alternative water source program in November or December. The Joliet system has said they would like a decision by the end of the year or the first of next year.

#### **ADDITIONAL BUSINESS**

None.

**CITIZEN COMMENTS**

Darren Crawford, President of the Yorkville Library Board of Trustees, mentioned that after listening to the water study presentation, the council might want to check into controlled system takeover by foreign or domestic ransomware groups. He suggested the council ask what type of control system is being used for the water system and what the protections are against malicious software. Additionally, if the system goes down, who gets priority first for water. He went on to make further comments regarding Library operations. He said it was mentioned that taxes were going to increase if the Library formed a Library District. Mr. Crawford said if they become a Library District, it will be the original boundaries of the city and no one's taxes will go up because it will be the same levy and the only way is if they ask the community and the community will vote to join the district. When it comes to what happened with the preschool, he said when he was approached by the Mayor in January, he took the idea to the Library Board in good faith. He said they talked about three different options and he thought the final option looked good. Under legal advice from the Library's attorney, he was told that the Library Board had to be careful not to do anything that would affect Library operations. That was why the board voted against the proposal. Regarding the comment about the vote taking place after everyone left, he said that was because a board member brought it up and said there was an item in the packet that wasn't voted on and that is why the vote occurred after the Mayor and others had left the meeting.

Cesar Chacon, spouse of a Library Board Trustee, thanked Aldermen Funkhouser and Milschewski for their comments during the discussion about the Library Board appointments. He said that not everyone understands how important the library is to a lot of constituents in the community.

**EXECUTIVE SESSION**

None.

**ADJOURNMENT**

Mayor Purcell entertained a motion to adjourn the City Council meeting. So moved by Alderman Milschewski; seconded by Alderman Peterson.

Motion unanimously approved by a viva voce vote.

Meeting adjourned at 9:20 p.m.

Minutes submitted by:



Lisa Pickering,  
City Clerk, City of Yorkville, Illinois

# ALTERNATIVE WATER SOURCE STUDY (AWSS) UPDATE OVERVIEW

United City of Yorkville

City Council Meeting  
June 8, 2021



Presenter: Jeffrey W. Freeman, PE, CFM, LEED AP



# Agenda

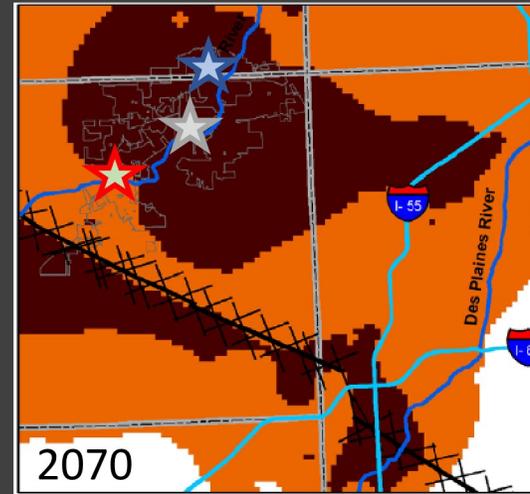
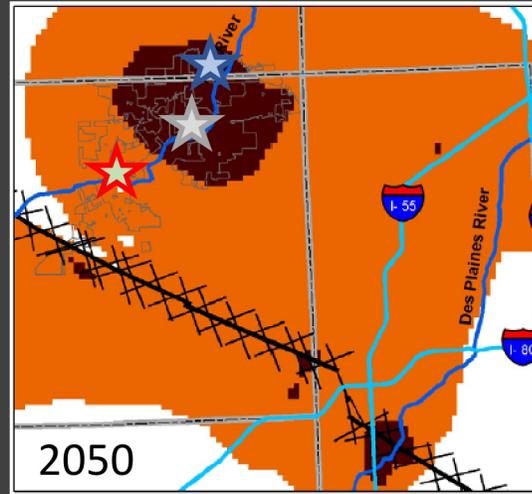
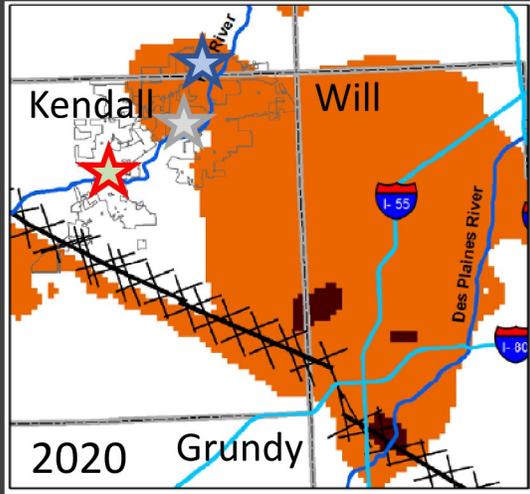
1. Water Source Sustainability
2. Historical & Ongoing Studies
3. Supply Options
4. Decision Considerations
5. Schedule
6. Q&A



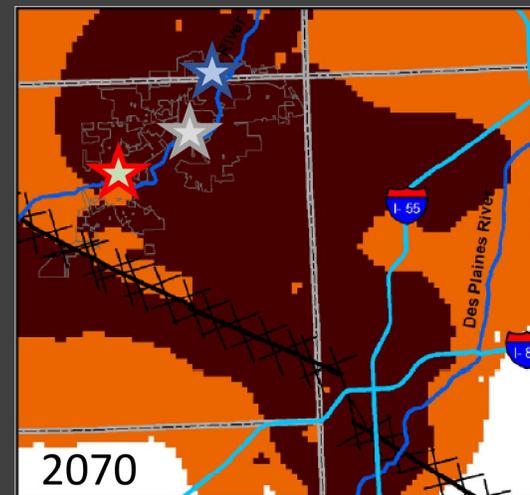
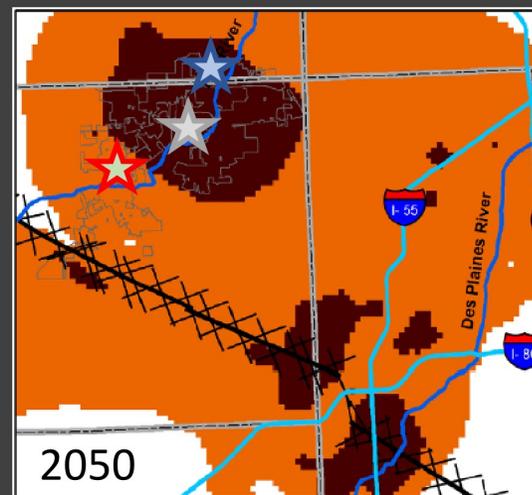
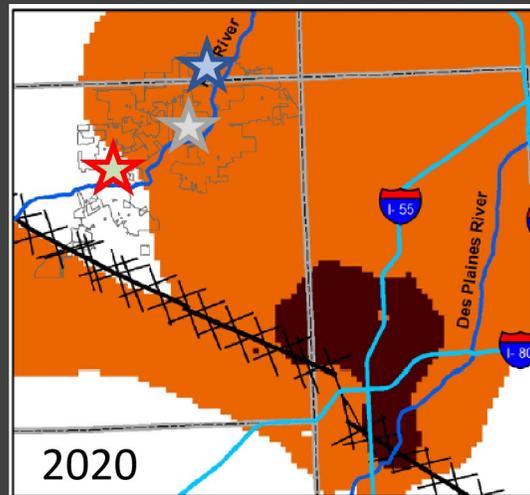
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**WATER SOURCE  
SUSTAINABILITY**

# Average Day Water Use



# Peak Water Use



# EXISTING DEEP WELLS

## Risk Zones

- Risk of declining well performance
- Risk of well inoperability

Interstates

Municipal Boundaries

Major Rivers

Sandwich Fault Zone

Source: ISWS

Village of Montgomery

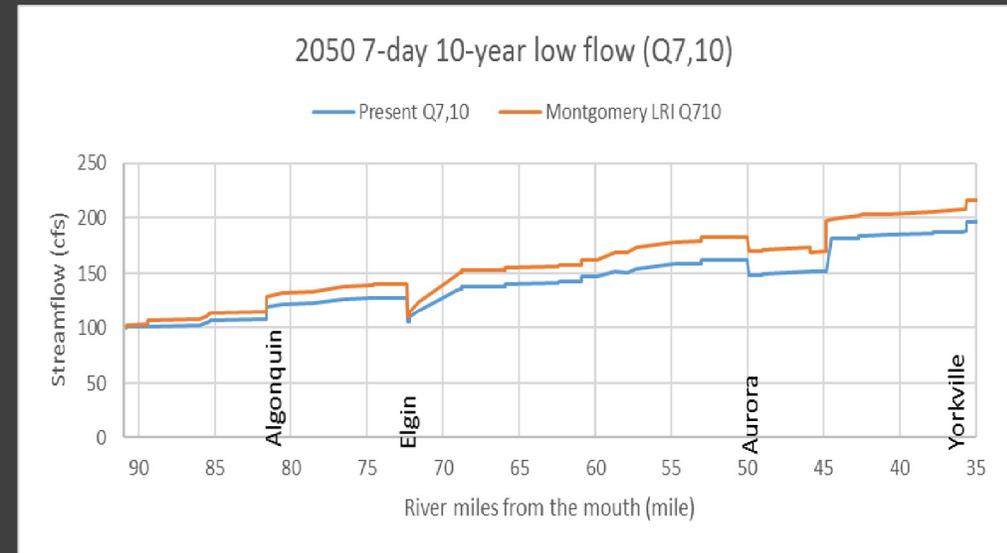
Village of Oswego

United City of Yorkville



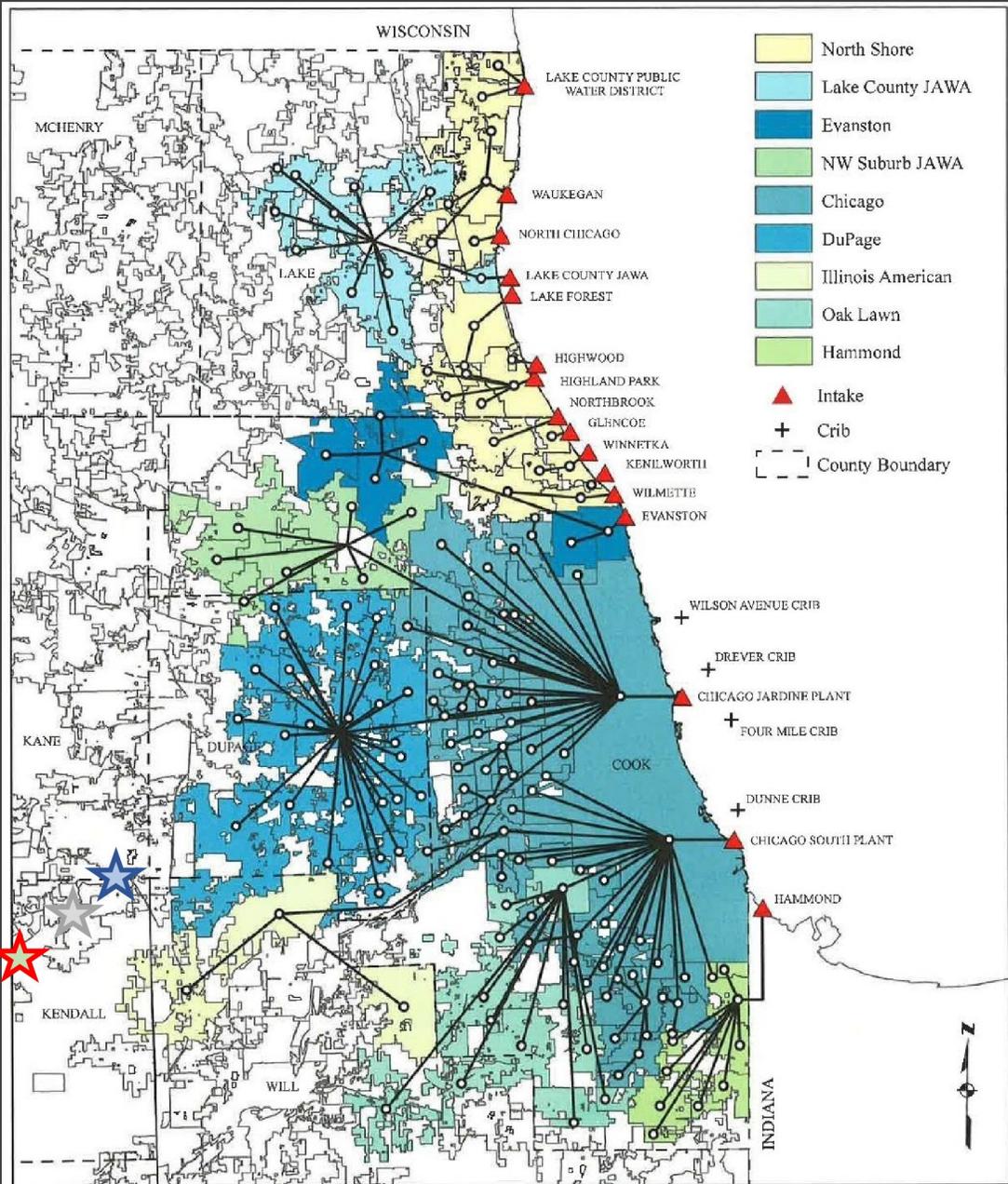
# FOX RIVER

- Modeling Conducted By the Illinois State Water Survey
- River Baseflow Projected To Increase In the Future
- Most Sustainable Supply Source Currently Within Sub-Region
- Back-Up Supply Source Still Needed
- Withdrawal Permitting Sooner Rather Than Later Likely Better



## Projected Change In Monthly Risk Of River Flow Being Below Current Q7,10 Flow

Month	Current Conditions (%)	2050 Projected Conditions (%)
May	0.4	<0.1
June	0.3	<0.1
July	1.7	<0.1
August	3.6	0.5
September	4.7	0.9
October	2.4	0.7
November	0.4	0.2



LAKE MICHIGAN ALLOCATION NETWORK 2012

0 5 10 20 Miles

## LAKE MICHIGAN

- Total Illinois Diversion Limit Set at 3,200 cfs By Supreme Court Decree
- Illinois Department of Natural Resources (IDNR) Manages Lake Michigan Allocation Process
- IDNR Has Recently Stated They Believe There is Sufficient Allocation to Serve Joliet and the Communities Currently Considering Connection





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# HISTORICAL & ONGOING STUDIES

Population &  
Water Demand  
Projections



Wells

Regulatory Review



Fox River Alone

Sustainable  
Source Water  
Assessment

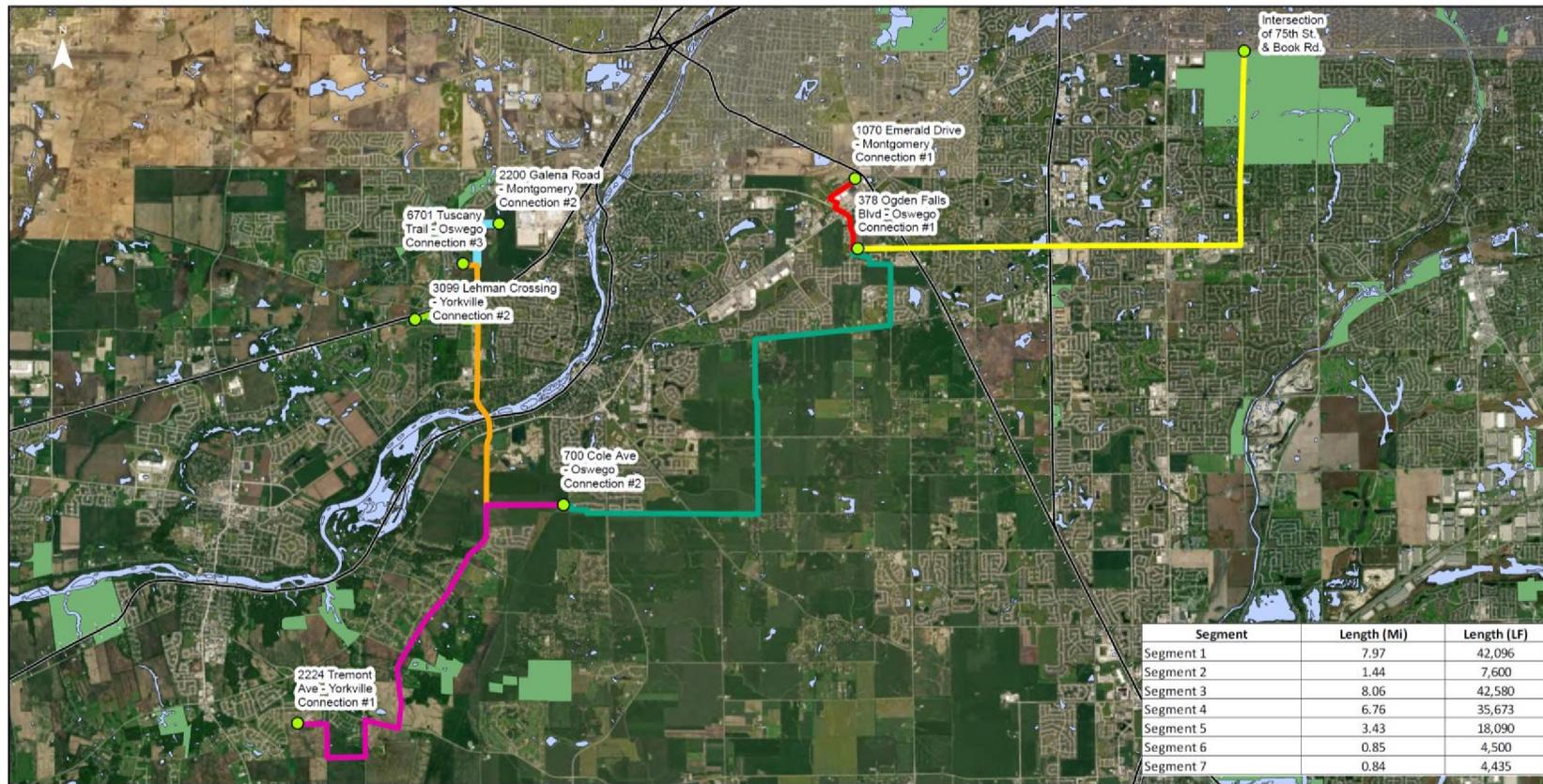


Fox River With  
Oswego &  
Yorkville

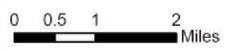
## 2016 United City of Yorkville Water Works System Master Plan

In 2016, the City analyzed the sustainability of the City's wells, continued use of the wells, utilizing the Fox River as an independent supply source or with the Village of Oswego and Village of Montgomery.





- Legend**
- Segment 1
  - Segment 2
  - Segment 3
  - Segment 4
  - Segment 5
  - Segment 6
  - Segment 7
  - Rail Lines
  - Wetlands
  - Parks, Preserves, Conservation Areas



Segment	Length (MI)	Length (LF)
Segment 1	7.97	42,096
Segment 2	1.44	7,600
Segment 3	8.06	42,580
Segment 4	6.76	35,673
Segment 5	3.43	18,090
Segment 6	0.85	4,500
Segment 7	0.84	4,435

**ROUTE MAP WITH KEY FEATURES**  
 September 2018 Figure 5  
 VILLAGE OF OSWEGO, VILLAGE OF MONTGOMERY, AND  
 UNITED CITY OF YORKVILLE FEASIBILITY STUDY TO RECEIVE  
 LAKE MICHIGAN WATER VIA THE DUPAGE WATER COMMISSION



# 2017 & 2018 DuPage Water Commission Connection Analysis

In 2017 & 2018, AECOM developed capital cost estimates for a DuPage Water Commission Connection to the Village's of Oswego and Montgomery and United City of Yorkville.



## 2020/2021 Alternative Water Source Project

The Village of Oswego initiated an Alternative Water Source Project where they are evaluating a number of water source options for the region. They have asked Montgomery and Yorkville to provide cost-sharing for the elements of the study that apply to the three communities.

# Outputs To Be Utilized In COY AWSS

## Requested Inputs From VOM & COY





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# SUPPLY OPTIONS

# LAKE MICHIGAN SUPPLY OPTIONS

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**JOLIET AREA  
WATER  
COMMISSION**

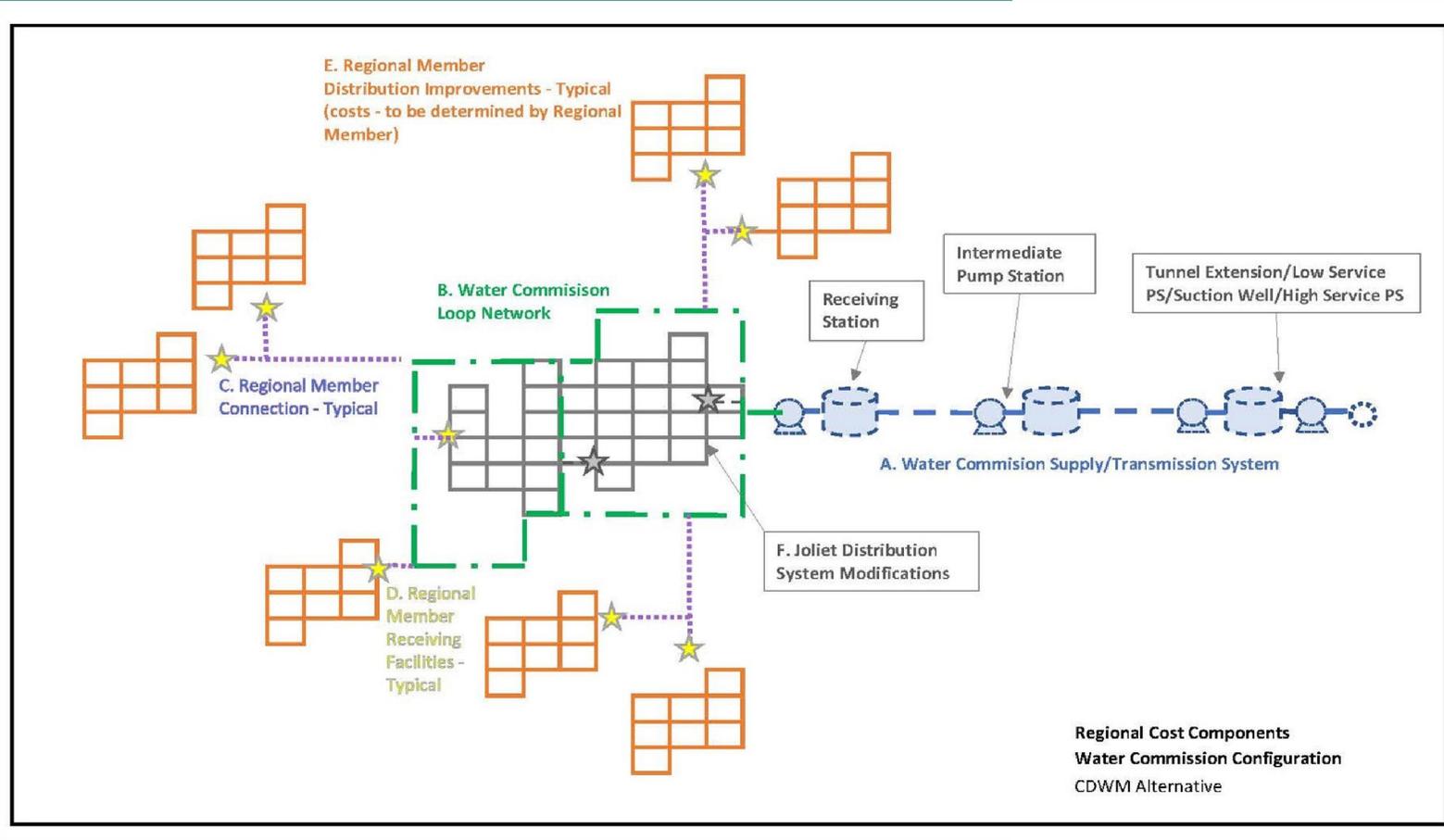


**DuPAGE  
WATER  
COMMISSION**



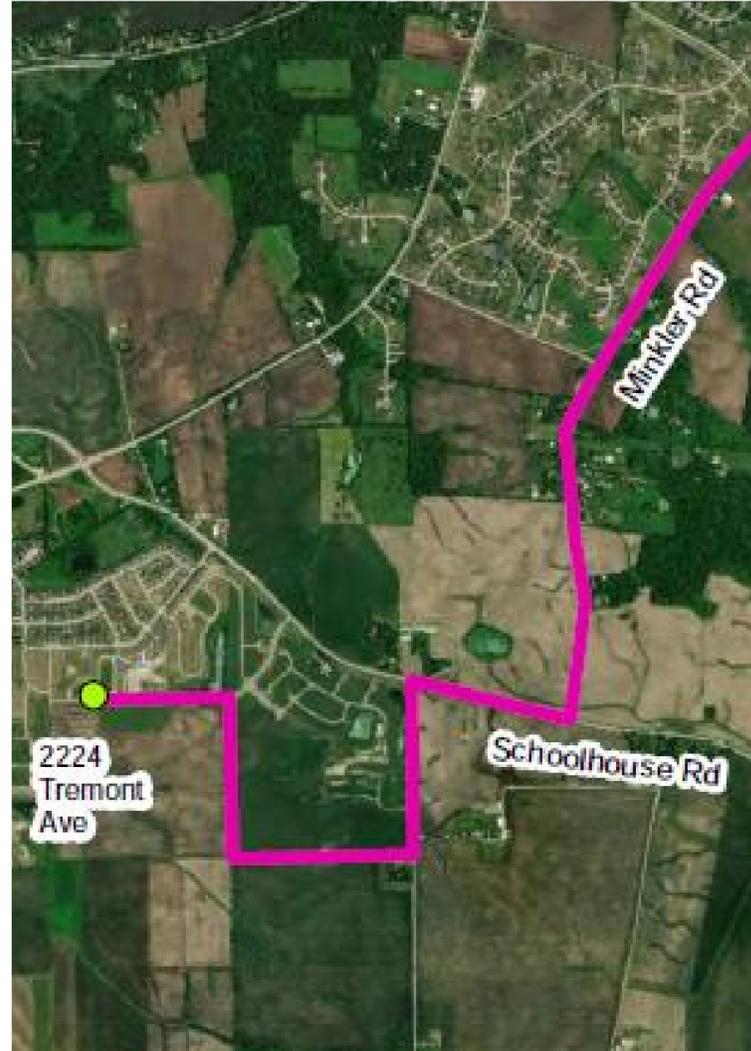
**ILLINOIS LAKE  
WATER  
COMPANY/  
PLAINFIELD**





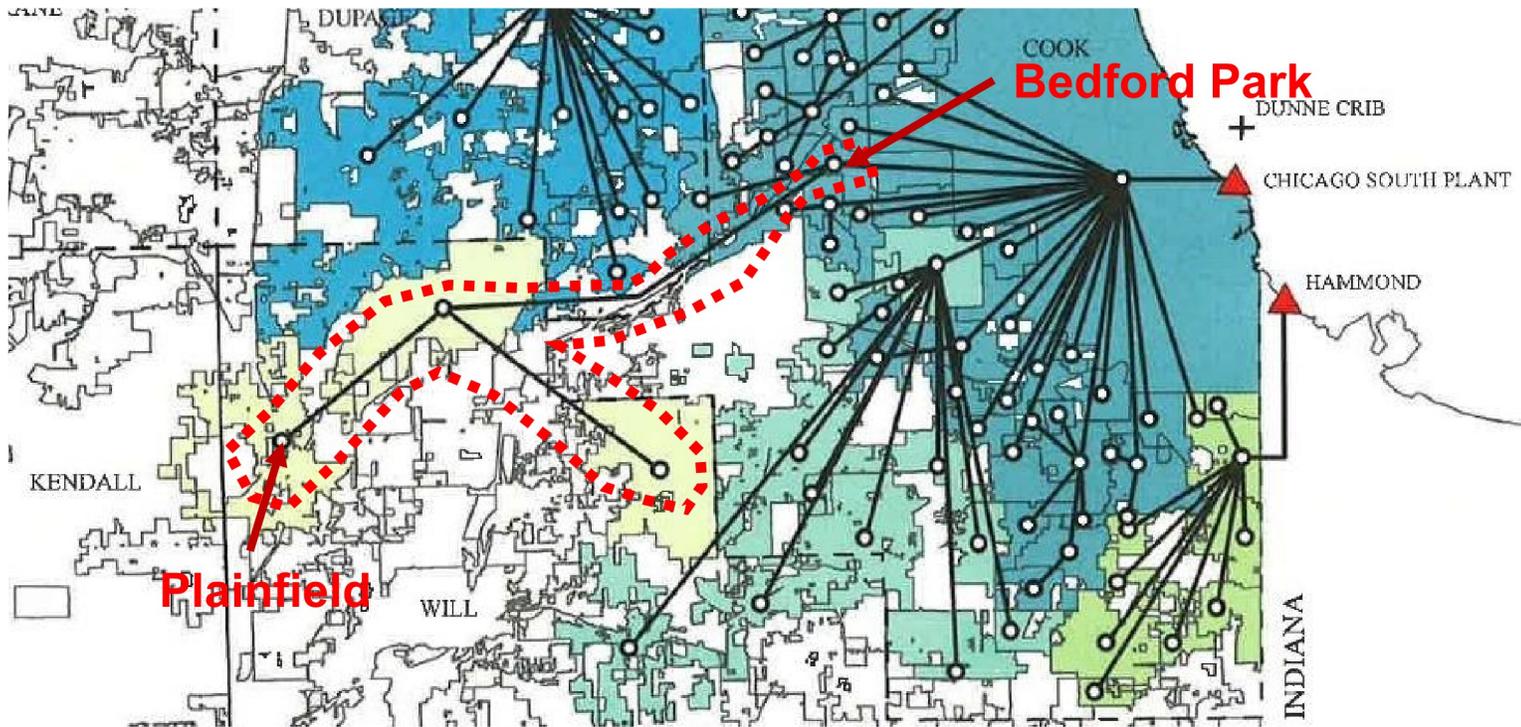
## JOLIET AREA WATER COMMISSION

- New System With Twelve (12) Communities Currently Considering Joining
- Purchase Water From City of Chicago
- Opportunity To Be Charter Member



## DUPAGE WATER COMMISSION

- 23 Charter Communities & Six (6) Subsequent Communities
- 40 Year Water Supply Contracts With City of Chicago & All Commission Members Expires In 2024
- 13 Member (Six – Municipalities; Seven – County Board Chair) Water Commission Board



## ILLINOIS LAKE WATER/ PLAINFIELD

- Private Utility
- Receive Water From Bedford Park Who Receives Water From Chicago
- Currently Serving Bollingbrook, Homer Glen, Plainfield & Small Portions of Romeoville and Lemont

# FOX RIVER SUPPLY OPTIONS

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**UNITED CITY  
OF YORKVILLE**



**AS SUB-REGION  
WITH OSWEGO &  
MONTGOMERY**



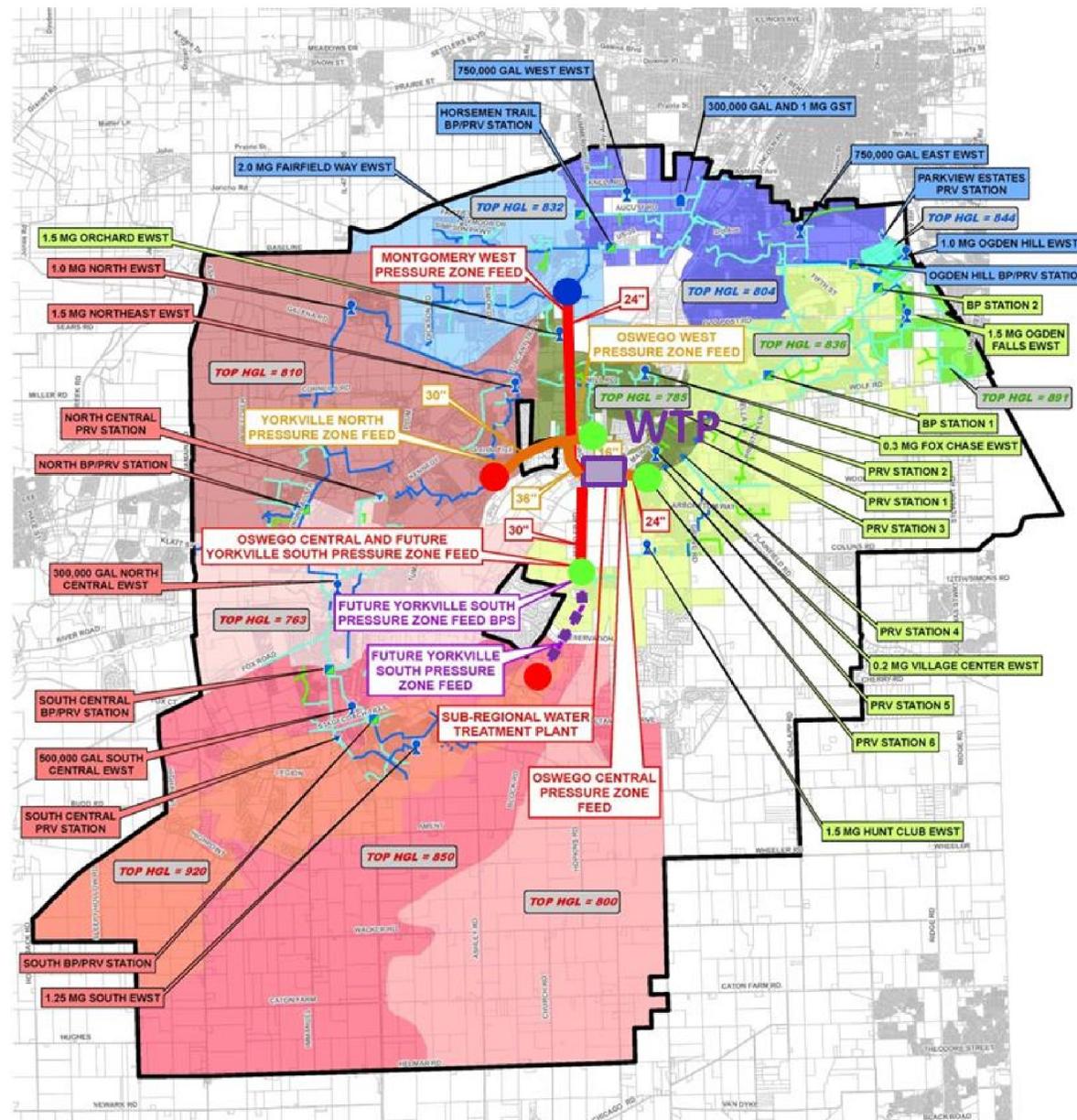


## UNITED CITY OF YORKVILLE

- Fox River Intake and Raw Water Line
- Well Collector Main
- Lime Softening Water Treatment Plant

## SUB-REGIONAL SYSTEM

- Fox River Intake and Water Treatment Plant
- Well Collector Main To Wells In All Three Communities
- Finished Water Transmission Mains





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**DECISION  
CONSIDERATIONS**



## DECISION CONSIDERATIONS

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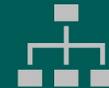
**COST**



**RISK**



**WATER  
QUALITY**



**MANAGEMENT/  
STAFFING**



**CONTROL/  
GOVERNANCE**



**SUSTAINABILITY/  
QUANTITY**



# \$ COSTS

Supply &  
Treatment  
Costs

Buy-In/Connection

\$

Capital

\$

Purchased Water

\$

O,M&R

\$

+

Storage,  
Distribution &  
Controls Costs

Capital

\$

O,M&R

\$



# COST COMPARISONS





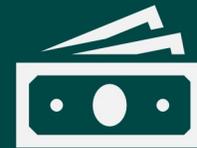
# RISK

**DESIGN/  
PERMITTING**



**CONSTRUCTION**

**CAPACITY  
EXPANSION**



**FINANCIAL**





# WATER QUALITY

## TREATMENT SYSTEM

Surface water treatment plant vs. chlorine addition

## WATER INTAKE LOCATION

Riverine bank versus offshore Lake Michigan

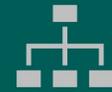
## SEASONAL QUALITY

Seasonal water quality changes in a river versus Great Lake

## REGULATORY COMPLIANCE RESPONSIBILITY

Responsibility for regulatory compliance on community or water supplier





## MANAGEMENT / STAFFING

- Individual community hires/manages all staff for supply, treatment, transmission, storage and distribution facilities
- Water supplier and water commission hires/manages supply, treatment and transmission staff; Community hires/manages storage and distribution facility staff





# CONTROL / GOVERNANCE

Contract  
Purchaser vs  
Member

Weight of Vote  
In Decisions

Risk &  
Financial  
Distribution



## SUSTAINABILITY / QUANTITY

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SEASONAL  
FLOW  
RESTRICTIONS

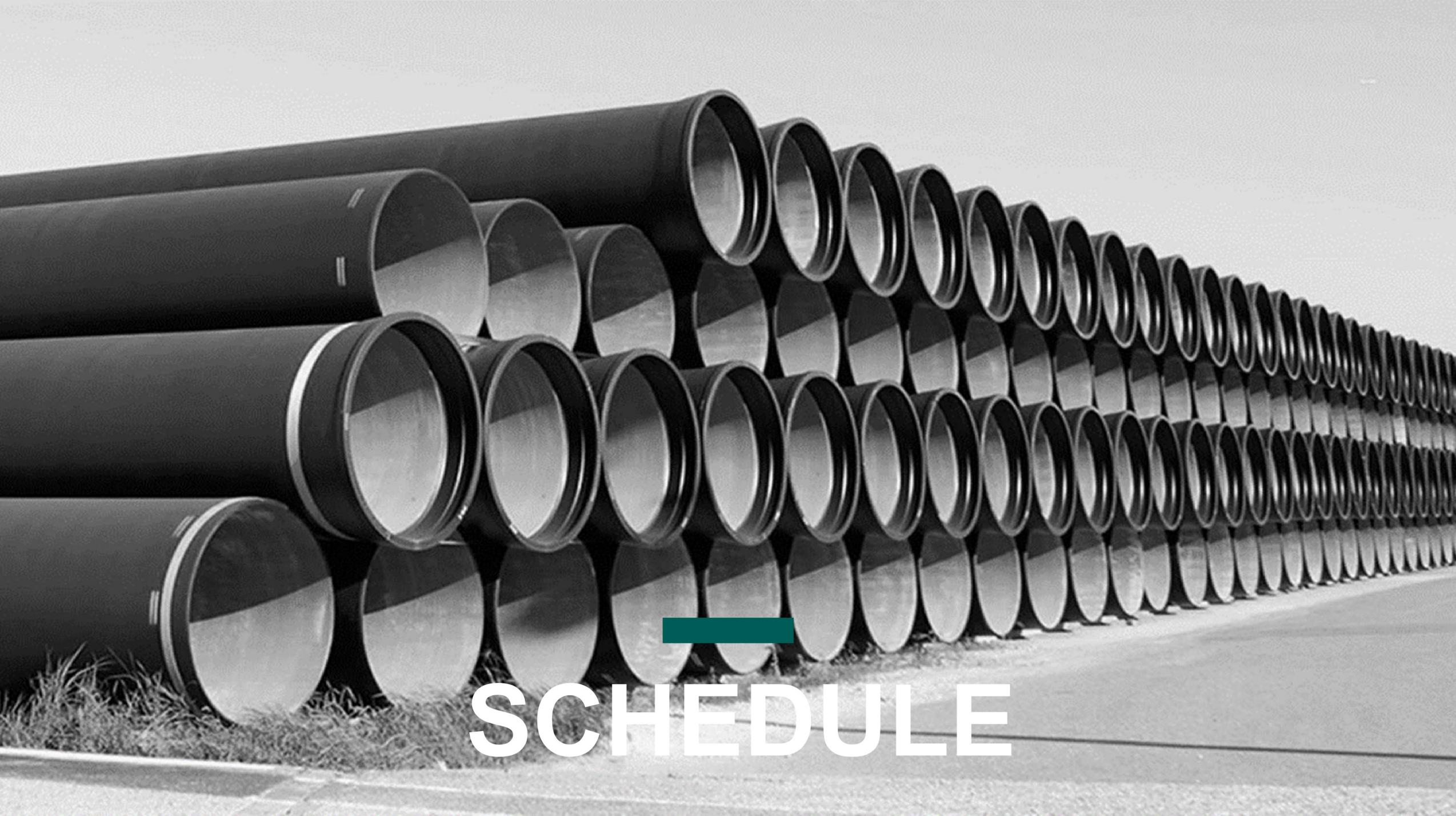


BACK-UP  
SUPPLY  
NEEDS



SUPPLY  
REDUNDANCY





—  
**SCHEDULE**

## JUNE 2021

AWSS Overview  
Presentation

## JULY/AUGUST 2021

Joliet Area Water  
Commission Refined Cost  
Estimates Available

## SEPTEMBER 2021

Cost Analysis Completed  
for All Alternatives

# SCHEDULE

## NOV./DEC. 2021

City Council Selects  
Alternative Water Source  
Program Path



## SEPTEMBER 2021

Public Information  
Meeting/Open House



## OCTOBER 2021

AWSS Summary City  
Council Presentation





**Questions or  
Comments?**