

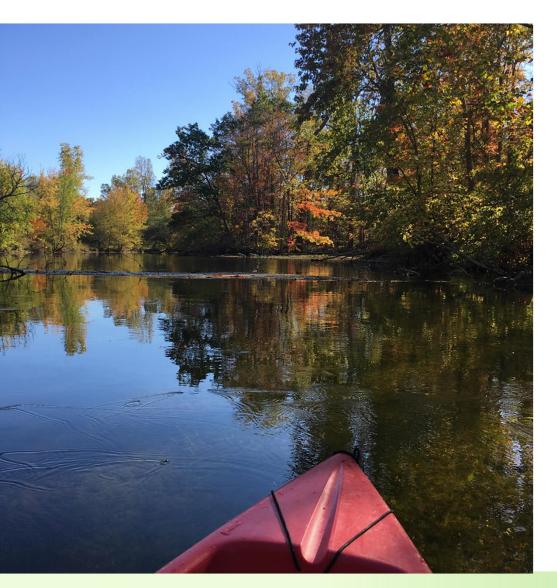
Ann Arbor's Water Future

City of Ann Arbor

City Council work session and discussion of the City's water treatment alternatives evaluation and recommendations.



September 13, 2021



Purpose Of Today's Work Session

Background:

- To provide reliable, high-quality water into the future, significant improvements are needed.
- Re-evaluation of alternatives completed in 2015.

Re-present 2016 recommendations Seek Council members' feedback

Answer questions from Council members



The recommendation at the conclusion of the 2015 Study was to rehabilitate the existing water treatment plant.

2015 Study Conclusions and recommendations

Four alternatives were considered:

- · Construct new or expand existing well fields
- Construct a new water treatment plant
- Join a regional water provider
- Rehabilitate the existing water treatment plant

Each alternative was assessed against the City's water quality goals, sustainability framework, customer service requirements, and regulatory compliance.

What source water to use	Improve redundancy (backup)	Manage aging infrastructure
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Changes since 2015

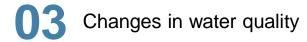
A2ZERO EQUITABLE - SUSTAINABLE - TRANSFORMATIVE Changes in governance



Ann Arbor

Ann Arbor OKs new plan to reduce PFAS in city's drinking water

Updated: Jan. 29, 2019, 11:24 p.m. | Published: Sep. 25, 2018, 5:13 p.m.



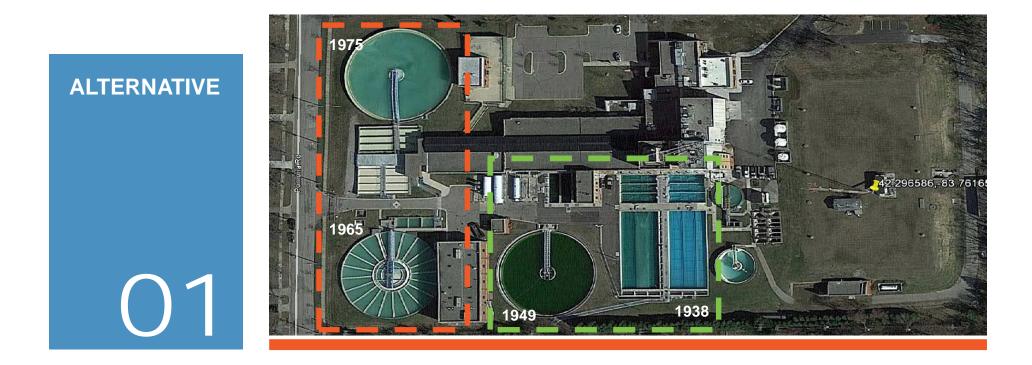


Since 2015, the City has completed over \$15M in improvements.

Changes since 2015

Activities to advance the 2015 recommendations

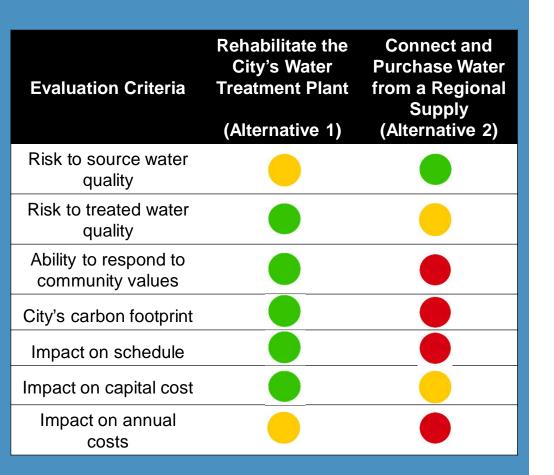
- Added UV to improve *Cryptosporidium* treatment
- Improved effectiveness of PFAS control
- Monitored 1,4-dioxane migration to the river
- Improved automation system for treatment
- Improved building envelope (structural, architectural)
- Improved Steere Farm wellfield
- Improved electrical systems at Barton Pump Station



Rehabilitate the water treatment plant on the existing site.



Connect and purchase drinking water as part of a regional water supply solution.

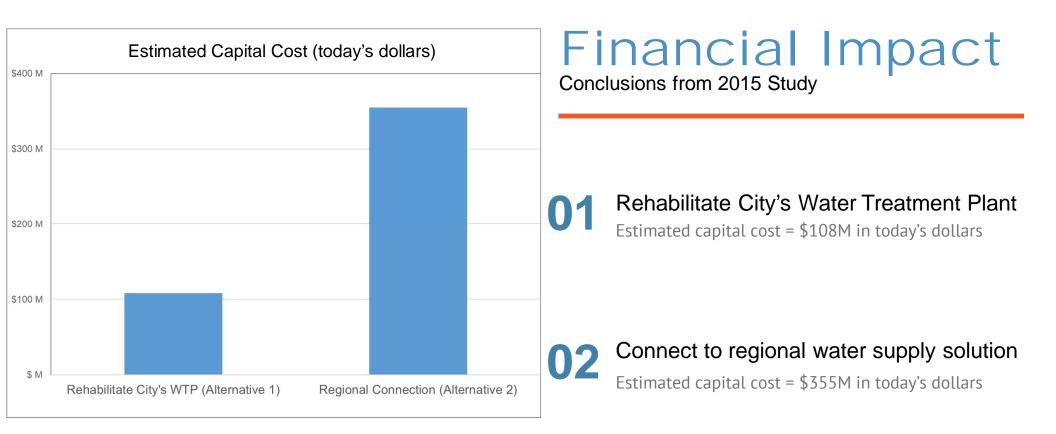


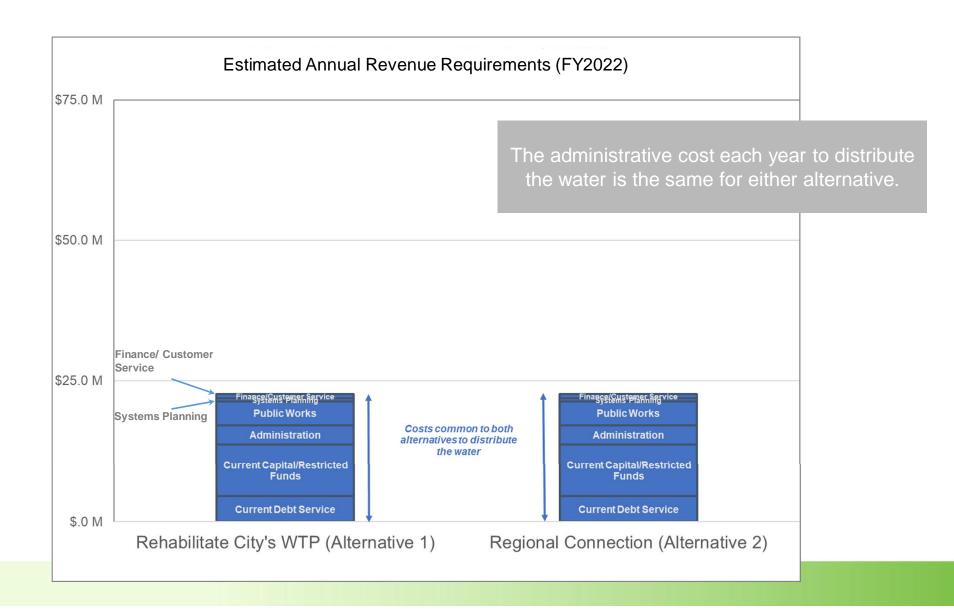
Comparison Risk considerations for both alternatives

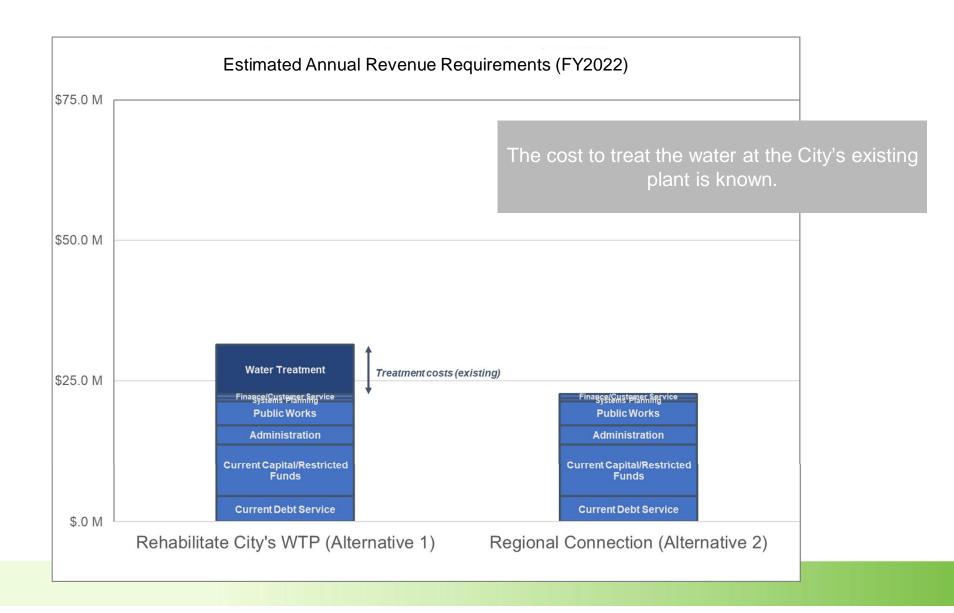
Green denotes lower risk/impact. Yellow denotes medium risk/impact. Red denotes higher risk/impact.

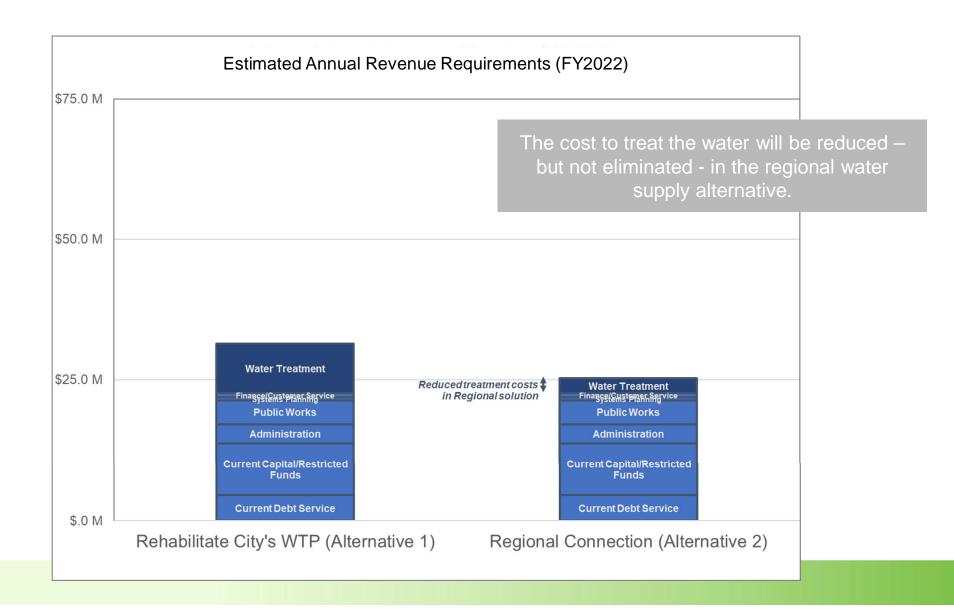
Discussions with both the state regulator (EGLE) and the regional water supplier (GLWA) are necessary to refine risks, impacts and costs.

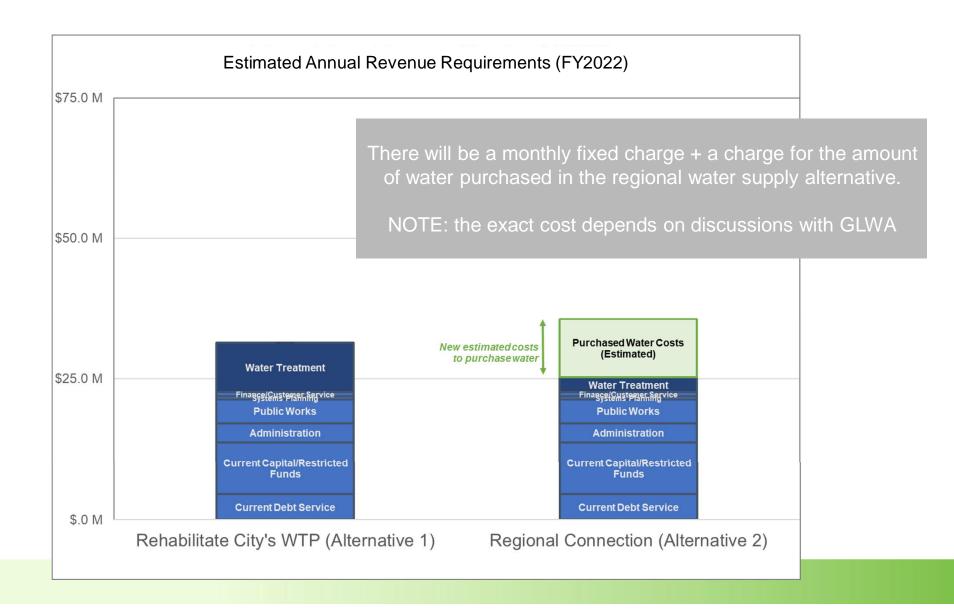
Water	Autonomy &	Carbon
Quality	Community	Footprint

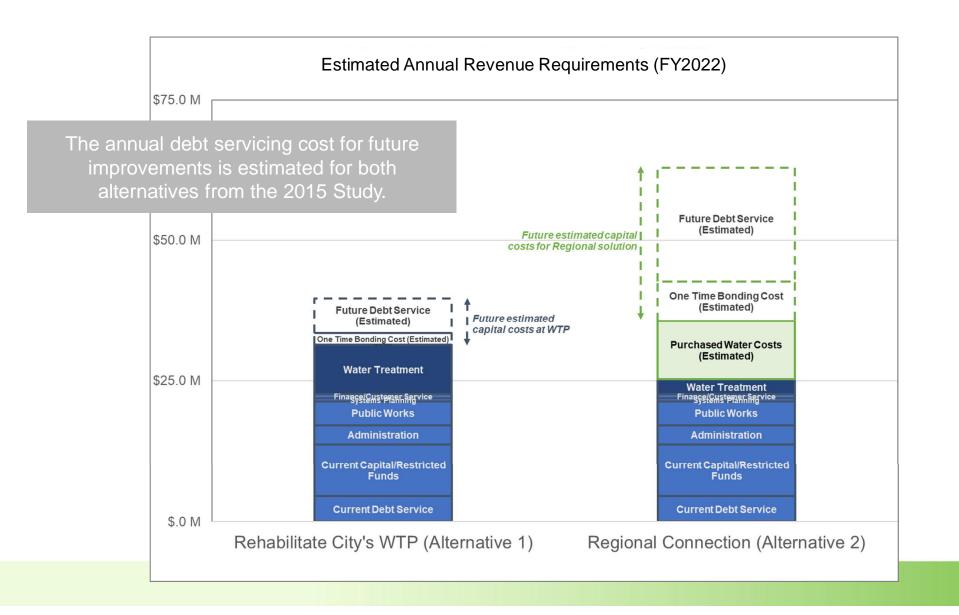


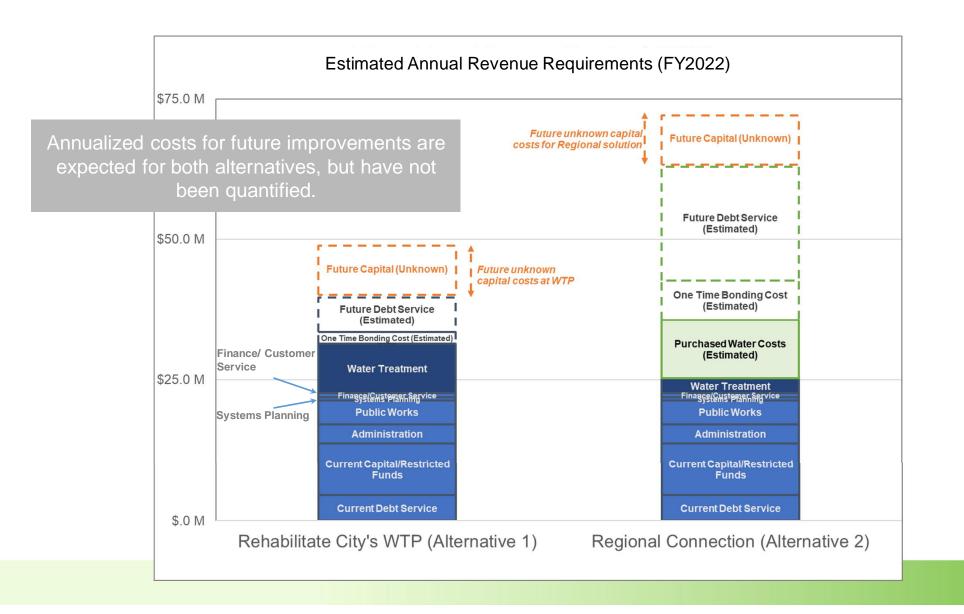














Staff recommend that the City proceed with conceptual design to upgrade the City's water treatment plant.

NEXT STEPS

Council decision at future Council meeting

Staff will present up to two resolutions at a future Council meeting. Proceed with conceptual design of Alternative 1

The first resolution will be to approve a contract for conceptual design to rehabilitate the City's Water Treatment Plant. And simultaneous evaluation of Alternative 2?

The second resolution may be to amend the contract to evaluate simultaneously the regional water supply solution, should the Council decide to proceed with that option.



DISCUSSION