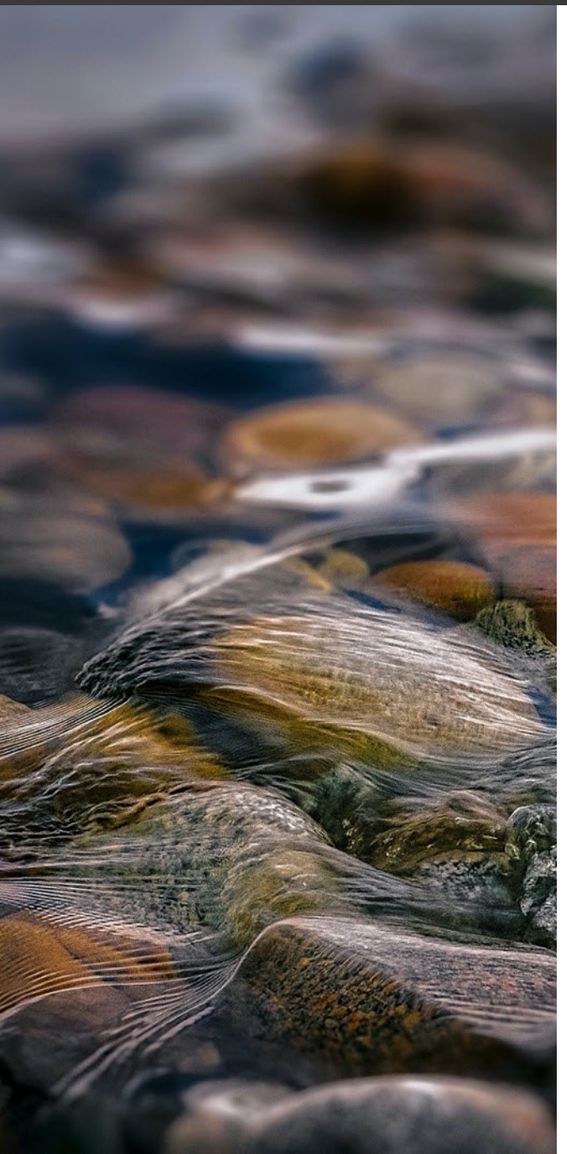
Scoping Projects to Implement MWSP and Support Local Planning

METROPOLITAN COUNCIL

Metro Area Water Supply Policy and Technical Advisory Committees (MAWSAC & TAC) | October 23, 2024

Greg Johnson

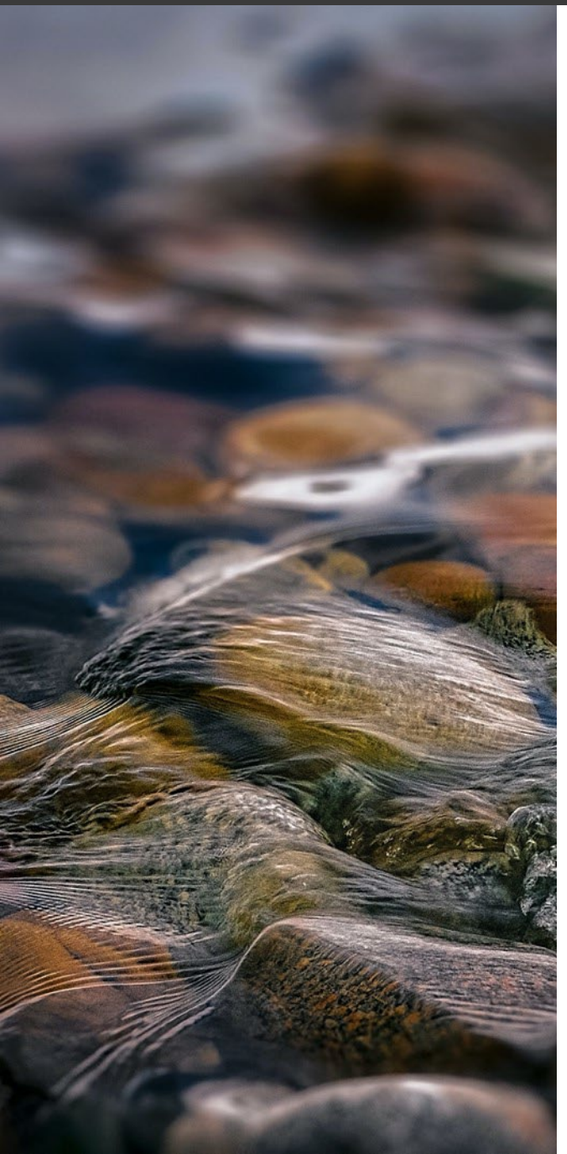
Action requested



Complete a survey to help scope regional project to implement the Metro Area Water Supply Plan

- Consider the Metro Area Water Supply Plan
- Consider some key milestones
- Consider Met Council resources
- Review and share input on potential projects being proposed

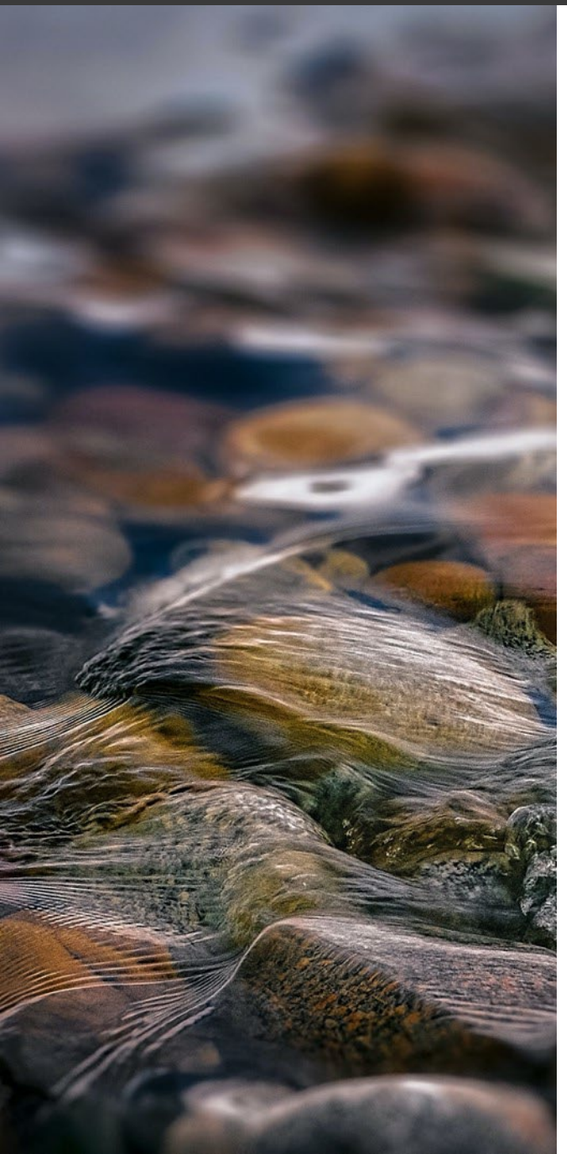
Metro Area Water Supply Plan Table 3.2



Regional actions that Met Council commits to support

- Collaboration and capacity building
- System assessment
- Mitigation measure evaluation
- Planning and implementation

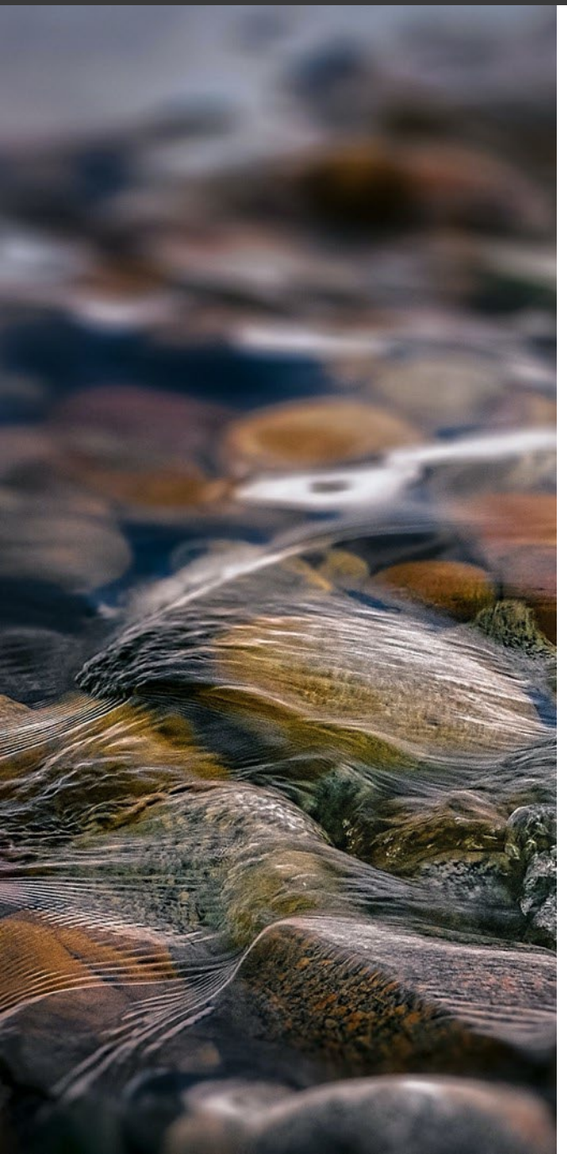
Key milestones (1/2)



Projects may be more useful if done at a certain time

2025	Communities will receive system statements with information to update their local comprehensive plans
Feb. 2027	MAWSAC will report to the legislature about our water supply work (statute)
Dec. 2028	Deadline for communities to submit updated comprehensive plans and DNR Water Supply Plans to Met Council
2030	Met Council will report to the legislature about our water supply work, and the U.S. Census will trigger the process to update regional forecasts and plans (statute)

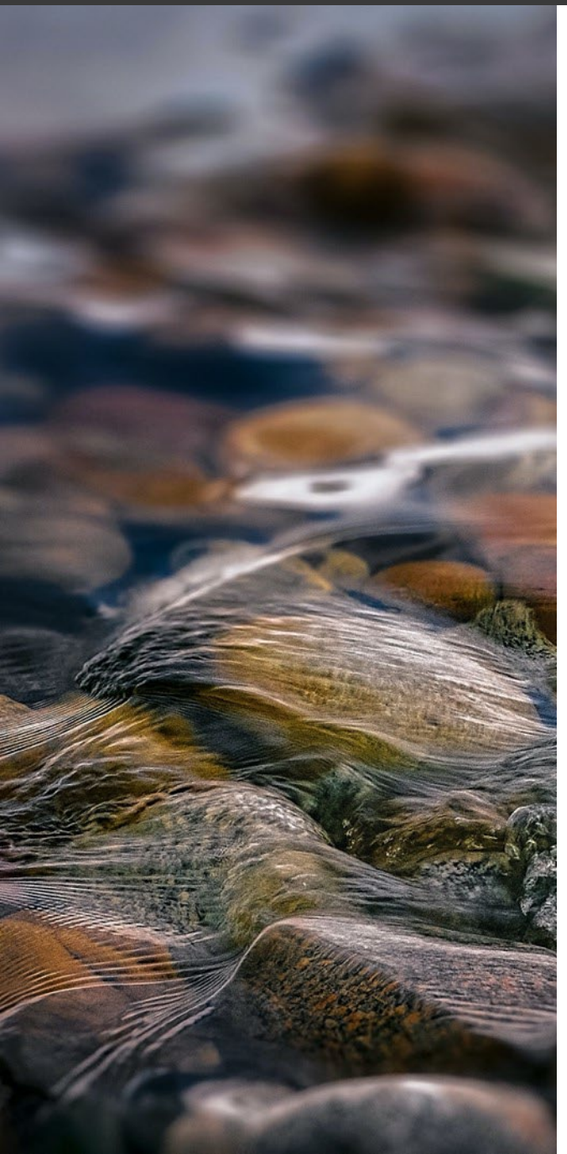
Key milestones (2/2)



Projects may be more useful if done at a certain time

2032-2033	Wrap up policy research cycle to inform plan updates
2034	Clean Water Fund expires, and stakeholder engagement needed to update regional policies and plans
2035	MAWSAC will approve the updated Metro Area Water Supply Plan

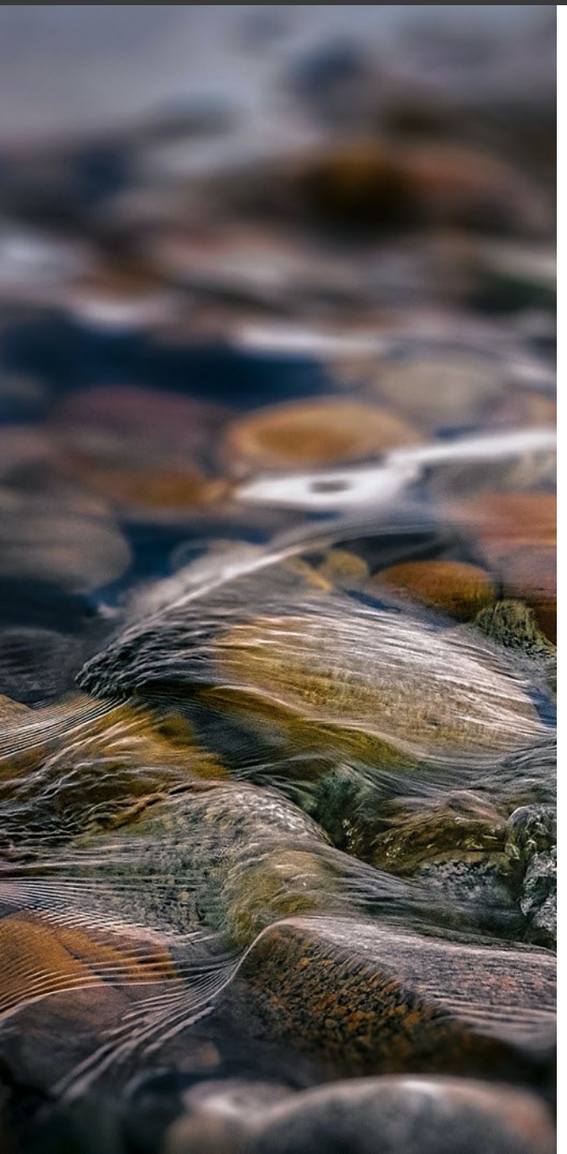
Met Council resources



Funding, staff capacity, and partnerships

- Clean Water Fund appropriations
- Additional potential funding though climate and wastewater planning
- Still limited by staff capacity
    - Working relationships with research institutions, non-profits, and professional organizations

Examples of current Met Council work



New projects can build on efforts such as:

Water efficiency grants

Resource recovery planning (water reuse, energy, biosolids)

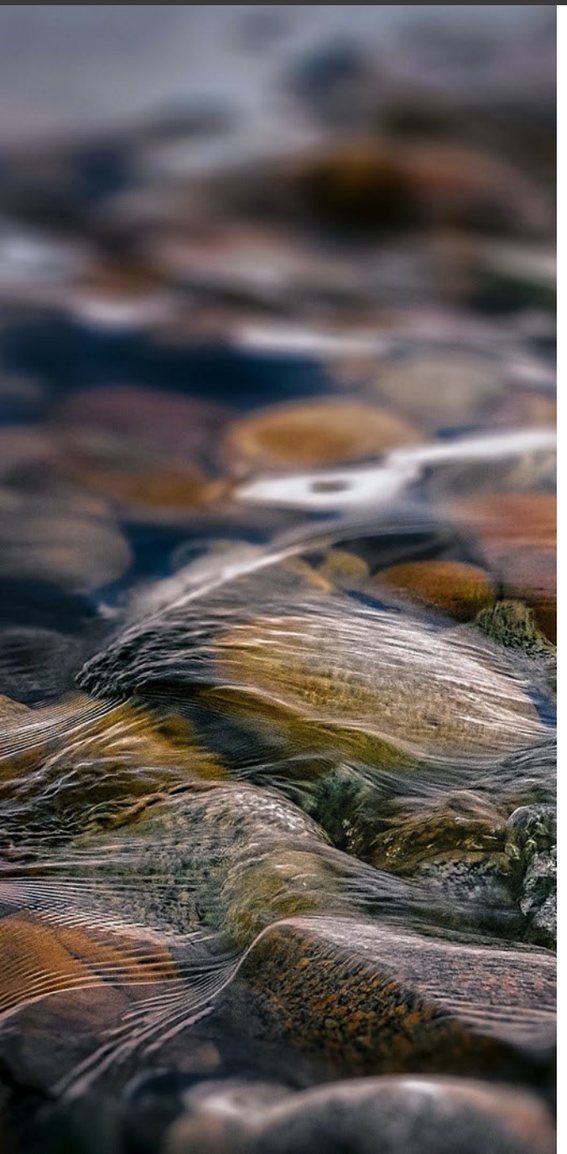
Water Planning Atlas updates

Water Resources Assessment Plan implementation

Coordinated review of local water supply plans by Met Council and state agencies (DNR, MDH, MC)

Collaboration and capacity building (1/2)

(T) = technical study

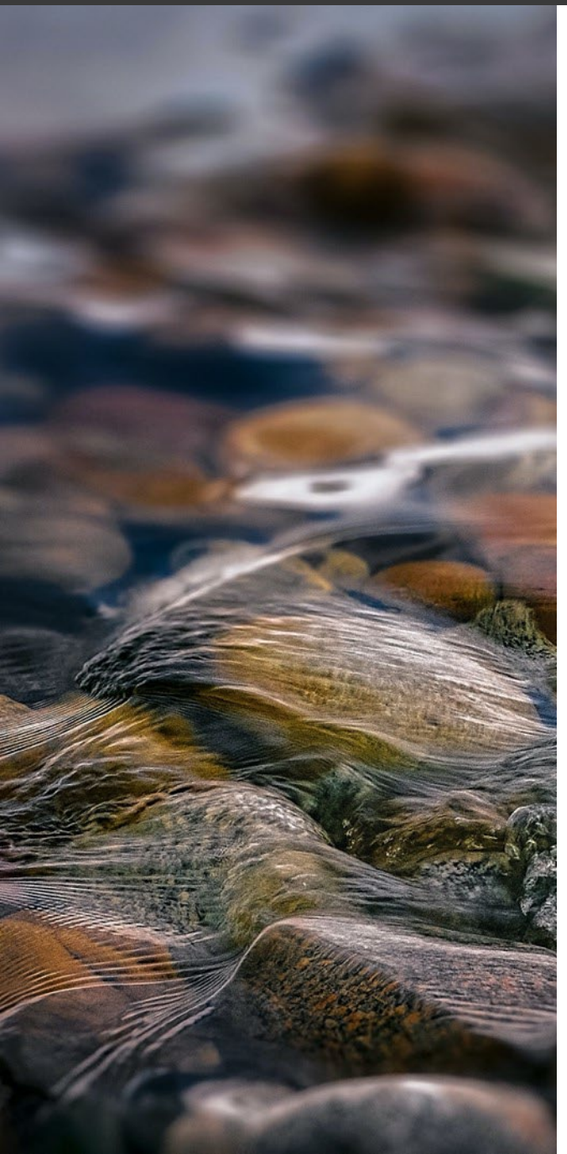


Potential new metro region studies

- Water and Wastewater Reuse Potential and Analysis *(T)*
- Regional Assessment of Aging Water Infrastructure and Grading *(T)*
- Infrastructure Water Supply Needs *(T)*
- Treatment Technologies and Costs to Address Multiple Contaminants *(T)*
- One Water Potential and Benefits *(T)*
- Nitrate Study *(T)*
- Groundwater Elevations Database Coordination with DNR *(T)*

Collaboration and capacity building (2/2)

(T) = technical study

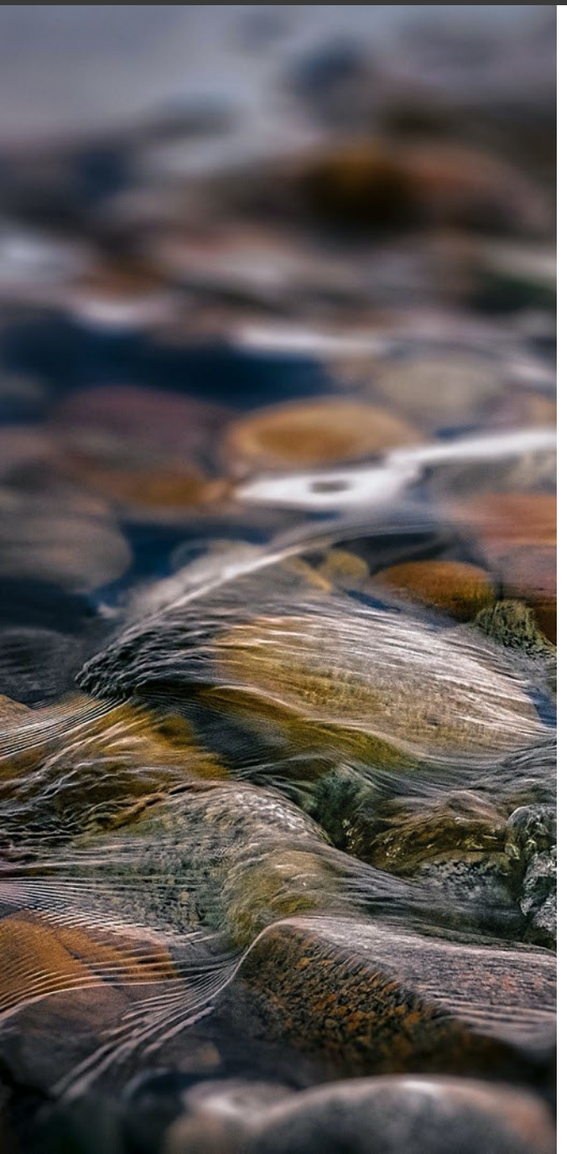


Potential new metro region studies (continued)

- Framework for Coordinated Multi-Community Well Protection and Land Use Planning
- Multi-community Water Supply Emergency Response Exercises, through Partnership with AWWA, EPA, Others

System assessment

(T) = technical study

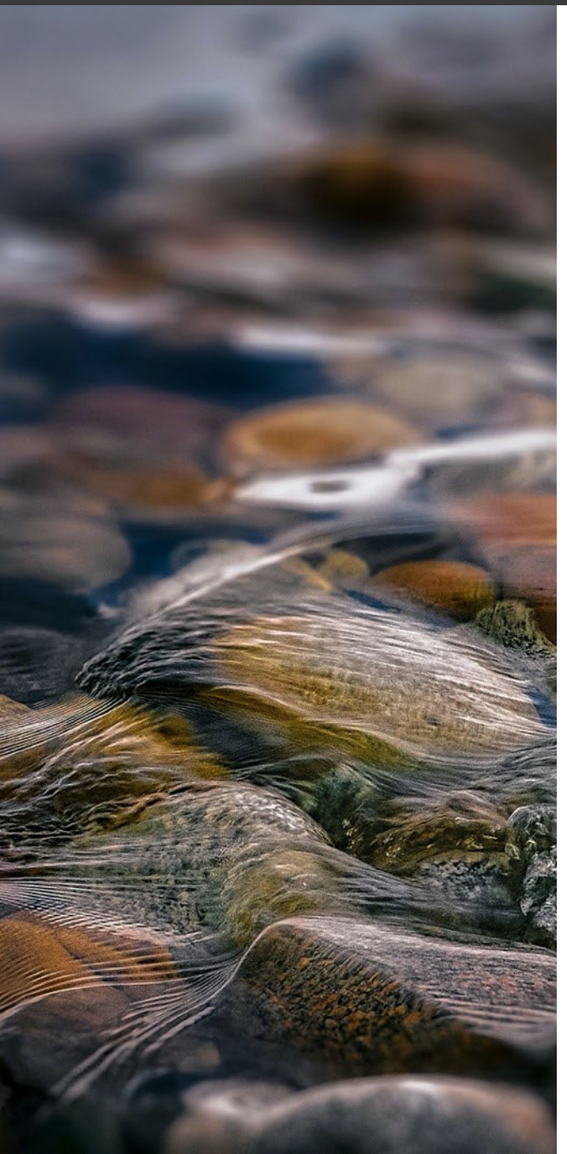


Potential new metro region studies

- Regional Groundwater Model Update – Water Balance *(T)*
- Long-Term Metro Region Groundwater Capacity Analysis and Resource Limitations and Vulnerability for Planned Growth *(T)*
- Groundwater-Surface Water Interaction Effects and Impacts *(T)*
- Long-Term Effects of Climate Change on Water Supplies *(T)*
- Potential Groundwater Impacts from Future Large Industrial Users
- Private Wells Groundwater Quality Analysis and Future Considerations *(T)*
- Historical Water Use Database *(T)*

Mitigation measure evaluation

(T) = technical study

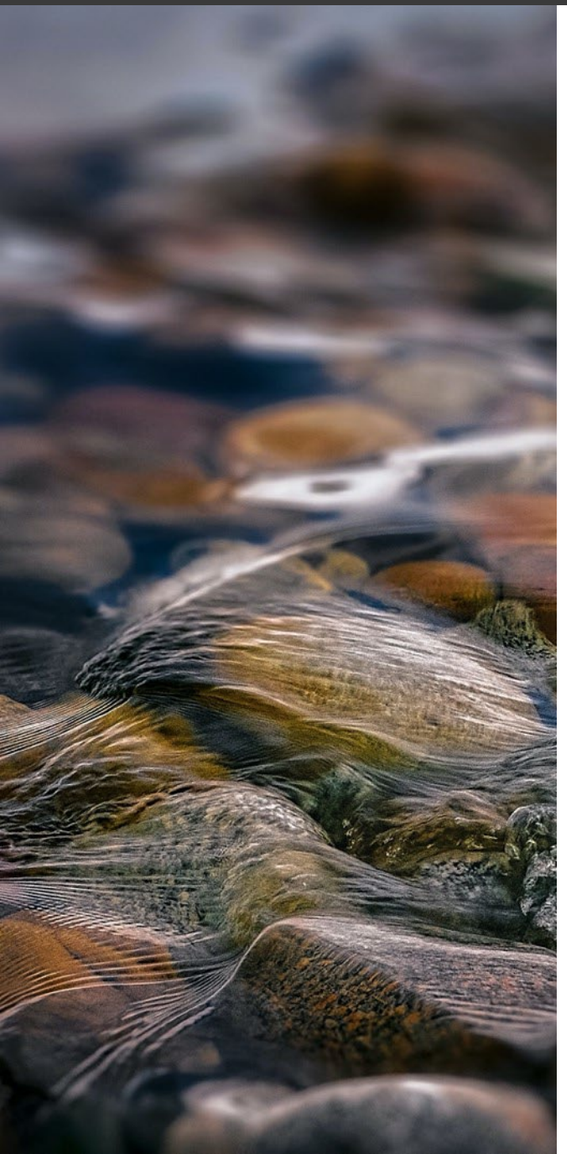


Potential new metro region studies

- Green Solutions Potential for Water Systems *(T)*
- Unaccounted-for Water Analysis and Potential Savings *(T)*
- Potential Metro Region Water Savings by Sustainable Landscapes and Water Efficient Irrigation Systems *(T)*

Planning and implementation

(T) = technical study



Potential new metro region studies

- System Statements
- Local Planning Handbook
  - Local plan expectations and guidance
  - Example local controls and case studies
- PlanIt programming
- Water Efficiency Equity Programming
- Guidance for Funding Opportunities to Support Local Plan Implementation

Potential subregional projects (1/3)

- Data Clearinghouse and Prioritization of Tech Improvements – Central Subregion
- Program for Surveillance and Testing of New Contaminants in Drinking Water and Wastewater - Central Subregion
- Review of Infiltration Requirements and Change for Groundwater Protection – Central Subregion
- Emergency Supply Back-up Cost-Benefit Analysis for Minneapolis and St. Paul Regional Water Services – Central Subregion
- Regional Standard for Flood Storage (beyond Atlas-14) – East Subregion

Potential subregional projects (2/3)

- Alternatives to Chloride Use – East Subregion
- White Bear Lake Area Comprehensive Plan - East and Northeast Subregions
- Guidance and Incentives for Water Reuse – Northeast Subregion
- Forecast Challenges for Water Supply Systems – Northwest Subregion
- Surface Water Supply for Northwest Subregion (revisited) – Northwest Subregion
- Capacity/Sustainability of Aquifers – Southeast Subregion
- Technical Review of Biosolid Applications and Impacts to Groundwater – Southeast Subregion

Potential subregional projects (3/3)

- Monitoring Wells Identification Study – Southwest Subregion
- Data Standards to Connect Monitoring Datasets – Southwest Subregion
- Long-Term Water Supply for Southwest Metro Region – Southwest Subregion
- Building and Development Codes Analysis – Southwest Subregion
- Technical Review of Biosolid Applications and Impacts to Groundwater – Southwest Subregion
- Database of Current Conservation Ordinances in the Metro Region – West Subregion

Survey questions

1. Would this proposed study give your organization useful information to help shape your water supply planning efforts?
2. Would this proposed study support your objectives and priorities that you identified as a priority in the draft Metro Water Supply Plan?
3. If the proposed study would be useful to your organization, when should this study be done considering the milestone dates listed above?
4. Are there any proposed studies not on this list that should be added and when should they be done?

Greg Johnson

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