

# Process for Proposing Concept-Level Project Ideas

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3M PFC Settlement Work Group Meetings  
May 14-15, 2019

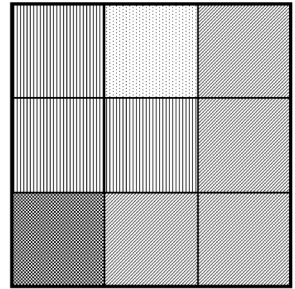
# Approach

**Water Supply Improvement Options:** A reasonable range of options, at a high-level, that could improve drinking water supply, including both centralized and decentralized systems. Treatment technology not specified.

**Concept-Level Projects:** Consistent with water supply improvement options, but provides more detail (e.g., locations, components, treatment technologies)

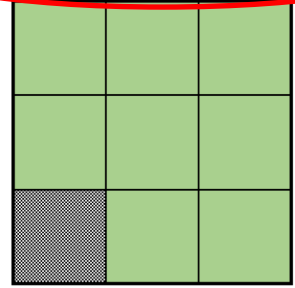
**Scenarios:** Sets of concept-level projects that consider supply, distribution, and demand. Each scenario addresses drinking water supplies for all communities.

**Regional Background Information & Community Profiles**

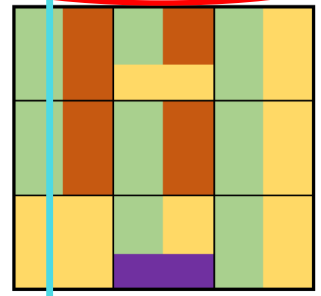


**Regional Background & Community Profiles:** Includes information on major aquifers, current drinking water supply infrastructure, potential constraints on water use (including PFAS), etc.

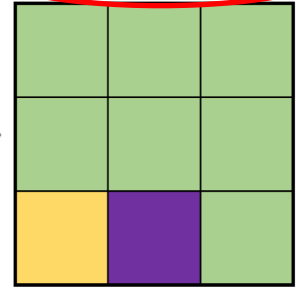
Water Supply Improvement Options



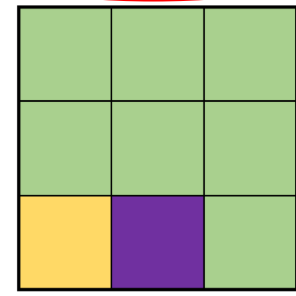
Concept-Level Projects



Scenarios



Recommended Scenario



# Water Supply Improvement Options

List of initial options for consideration (listed in no particular order):

- Drill new wells in optimized locations.
- Connect subsets of communities to St. Paul Regional Water Services.
- Create new surface water treatment plant for use of Mississippi or St. Croix River waters.
- Create new regional water supply system(s) (with treatment).
- Create new rural drinking water supply system(s) (with treatment).
- Move private well hookups to existing drinking water supply system(s) (where available).
- Provide drinking water treatment of existing water supply system(s).
- Provide point of use or point of entry treatment of drinking water.
- Non-potable and potable reuse of treated 3M containment water.
- Minimize water well usage by reducing current potable demand, through:
  - Beneficial use of other non-treated or less treated waters (e.g., grey water, storm water).
  - Water conservation.

# Approach (Cont'd)

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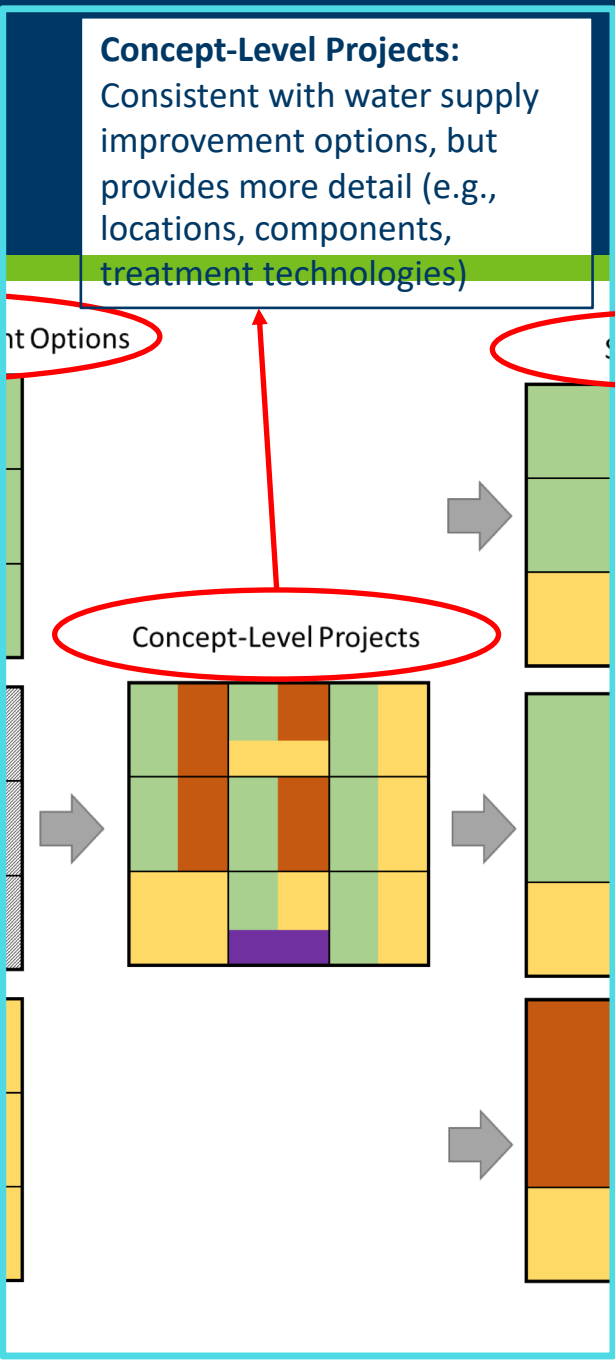
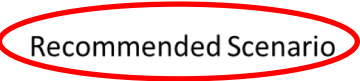
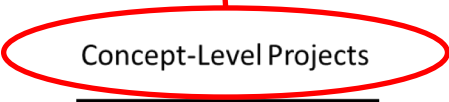
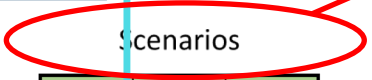
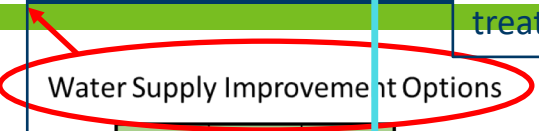
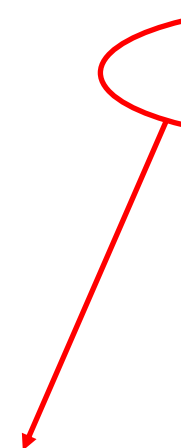
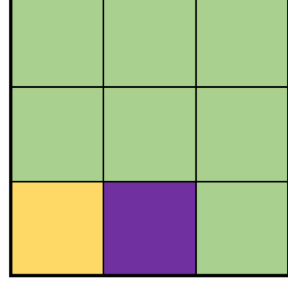
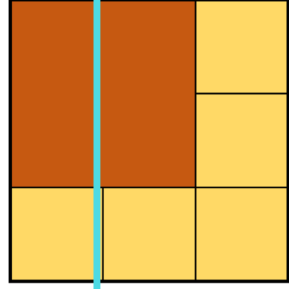
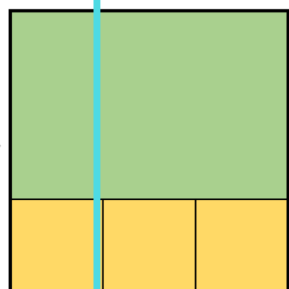
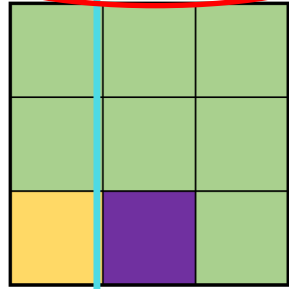
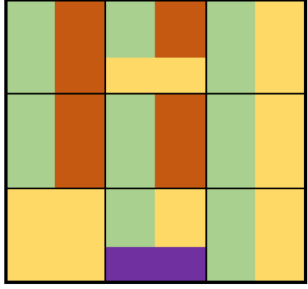
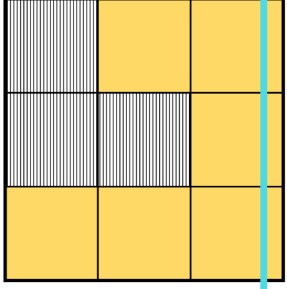
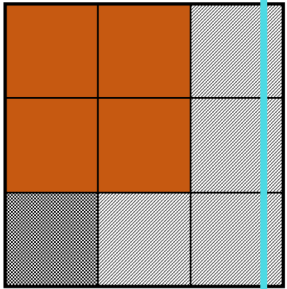
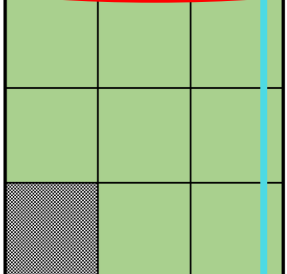
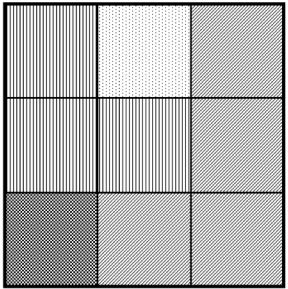
**Regional Background & Community Profiles:** Includes information on major aquifers, current drinking water supply infrastructure, potential constraints on water use (including PFAS), etc.

Water Supply Improvement Options

Scenarios

Concept-Level Projects

Recommended Scenario



# Concept-Level Projects

- Identify concept-level project ideas for consideration in the CDWSP
  - Consistent with the water supply improvement options, but includes more information such as location, treatment technology, and other details
  - Ranges from a simple idea to something more detailed that has already been planned
  - For example:

Water Supply Improvement Option	Concept-Level Project Example (fictitious names)
Move private well hookups to existing drinking water supply system(s)	Connect the Cherry Creek Neighborhood to a municipal water supply system (including specifics on the components of the connection)
Provide point of use or point of entry treatment of drinking water	Provide GAC treatment to houses in the Roaring River Neighborhood

*Communities may be at varying stages of development and the objective of this step is to ensure that all ideas are considered and evaluated regardless of where a community may be in the process*

- Obtain concept-level projects from:
  - Subgroup 1
  - Government and 3M Working Group and Citizen-Business Group
  - The public

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# Next Steps: Subgroup 1

- Wood will be coordinating with each Subgroup 1 member to identify their list (if any) of concept-level projects
  - Provide a presentation at the May Subgroup 1 meeting on the specific project information they need
  - Follow-up with a call to each Subgroup 1 member individually (as needed) to determine the most effective way to capture their list of concept-level projects (before the end of May)
  - If no concept-level projects have been identified, Wood will ask for information on Subgroup 1 member preferences and objectives
- Aim for initial input on concept-level projects before June meeting

# Next Steps: Work Groups

- For Work Group members (Government and 3M Working Group and Citizen-Business Group):
  - Work group members are encouraged to coordinate with their Subgroup 1 members to identify concept-level projects
  - Initial list of concept-level projects will be shared with the Work Group members to review and provide additional project ideas (if any)



# Next Steps: Public

- Request input from public throughout the development of the Conceptual Drinking Water Supply Plan
  - Open window in June/July for public to submit concept-level projects
  - Hold public meeting in July/August to share the initial list of concept-level project ideas

# Future Tasks

- Compile and review list of concept-level projects (May/June)
  - Evaluate potential conflicts
  - Propose solutions for unaddressed areas
  - Look for inter-community solution opportunities
- Share the refined list of concept-level projects with the Work Groups and Subgroup 1 for review and input (July)
- Bundle subsets of the projects into scenarios for drinking water supply and groundwater model evaluation (July-September)

# Timeline

Tasks	2018		2019											
	Jul-Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Develop Goals & Criteria	█													
Compile regional background information and community profile information	█	█	█	█	█									
<i>Write, review, revise: Introduction, Background, and Approach (Chapters 1-3)</i>			█	█	█	█								
Develop and revise drinking water system model and ground water system model			█	█	█	█	█	█	█	█				
<i>Write, review, revise: Model Development and Results (Chapter 4)</i>						█	█	█	█	█				
Evaluate water supply improvement options						█	█	█	█	█	█			
<i>Write, review, revise: Evaluation of Water Supply Improvement Options (Chapter 5)</i>							█	█	█	█	█			
Identify projects						█	█	█						
Screen & evaluate projects						█	█	█	█	█				
<i>Write, review, revise: Concept-Level Project Development, Screening, and Evaluation (Chapter 6)</i>							█	█	█	█	█			
Develop & evaluate scenarios; select recommended scenario							█	█	█	█	█			
<i>Write, review, revise: Scenarios Development and Evaluation (Chapter 7)</i>								█	█	█	█			
<i>Compile, review, revise: Final Report</i>												█	█	

● Public meeting

Questions or Comments?