



TVWD Water Supply Strategy Update

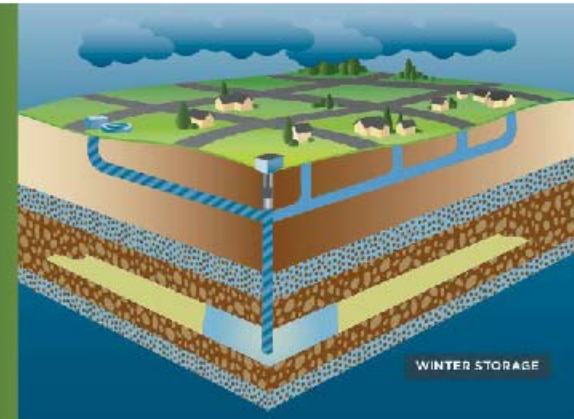


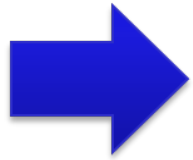
TVWD Board Work Session
October 2, 2012

- 1 Sustainable
- 2 Preserves in-stream flow
- 3 Supports native groundwater system
- 4 Cost beneficial-Delays new infrastructure
- 5 Environmentally friendly
- 6 Emergency back-up

WINTER STORAGE: Water is pulled from the Tualatin River, treated to drinking water standards and then transported by pipe to the AS2 site. There it is pumped into the aquifer and stored.

SUMMER RECOVERY: The treated water stored in the aquifer is now pumped out, re-chlorinated, and put into a pipe to be delivered to homes and businesses in Hillsboro, as well as areas served by Beaverton and Tualatin Valley Water District.





Step 1 – Identify appropriate criteria



Step 2 – Evaluate the options
according to the criteria



Step 3 – Use your evaluations to
support decision making



Criteria		Description
1	Demand Uncertainty	Ability of the supply to provide additional capacity if demands are greater than projected and accommodate demands less than forecast thru phasing and/or scaling improvements.
2	Source Reliability	Ability of the source to deliver required capacity at all times, including consideration of available water resources, existing water rights, natural variation, seismic vulnerability and possible effects of climate change.
3	Source Redundancy	Ability to meet the goal of all areas served by at least two sources of supply.
4	Implementation Risk	Risks of project implementation delays and/or cost increases due to unplanned factors such as permitting risk, schedule delays, complexity of required partnering agreements and/or project complexity.
5	Public Acceptance	Public perception of each of the sources of supply including requirements of industrial and commercial customers as well as general public.
6	Community Impacts	Impacts on the community due to large infrastructure construction projects.
7	Metzger Fluoridation	Ability to continue non-fluoridated supply to Metzger.
8	Finished Water Quality	Ability of the source to meet or exceed existing and anticipated regulatory requirements and aesthetic standards.
9	Sustainability	Anticipated sustainability of source based on energy requirements, infrastructure requirements and environmental impacts.
10	Ownership	Ability of the District to establish and preserve policies for initial construction and on-going maintenance of capital assets.



Evaluation on a three score scale

Score	Definition
+	The option is beneficial, relative to the other options, for the evaluated criterion.
0	The option is neutral (neither beneficial or detrimental), relative to the other options, for the evaluated criterion.
-	The option is detrimental, relative to the other options, for the evaluated criterion.



DRAFT - Summary of Initial Evaluation - DRAFT

Criteria	Portland	Willamette - Wilsonville	TBWSP	Northern Groundwater
1. Demand Uncertainty	+	0	-	0
2. Source Reliability	0	+	+	+
3. Source Redundancy	0	+	0	+
4. Implementation Risk	0	+	-	0
5. Public Acceptance	+	0	0	-
6. Community Impacts	0	0	+	0
7. Metzger Fluoridation	-	0	0	0
8. Finished Wtr Quality	0	+	+	+
9. Sustainability	+	0	-	-
10. Governance	-	+	0	+



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5. Public Acceptance	+	0	0	-
6. Community Impacts	0	0	+	0
7. Metzger Fluoridation	-	0	0	0
8. Finished Wtr Quality	0	+	+	+
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