

2018

SYMPOSIUM

EASTERN IDAHO WATER SUPPLY ALTERNATIVES

FOR MUNICIPAL, SUBDIVISION, COMMERCIAL AND INDUSTRIAL USES

Water Supply Option Evaluation Spreadsheet



David R. Tuthill, Jr., Ph.D., P.E.

Vice President,
Recharge Development Corporation

February 21, 2018



Options for Providing Water for a Municipality, Subdivision, Commercial or Industrial User

- Water Supply Bank -- Lease a Water Right Water Supply Bank
- Recharge with Canal Shares (Identify Dried Acres)
- Purchase and Transfer (Buy and Dry)
- Dual System (GW for Non-consumptive, SW for Consumptive)
- Wastewater Recovery (for a Municipality)
- MAR by a City et al -- Storage Water Owned
- MAR by a City et al -- Storage Water Not Owned
- MAR by a City et al -- Natural Flow Water Right Owned
- MAR with Aquifer Recharge Units



Idaho Ground Water Supply Acquisition Decision Support Tool v 1.0 Feb 21, 2018

- Provides a mechanism for option identification and comparison
- Every situation is unique – different solutions are optimal for different situations
- Municipalities are encouraged to seek input and recommendations from experts for each solution
- The tool will be updated and posted to easternidahowater.org and recharge.development.com



Evaluation Criteria

- Time (from application to completion)
- Legal Complexity
- Administrative Complexity
- Technical Requirements
- Environmental Constraints
- Economic Impacts on the Community
- Initial Costs per AF
- Ongoing Costs per AF (wet years)
- Ongoing Costs per AF (dry years)
- Total Present Value Cost
- Availability
- Sustainability
- Operation and Maintenance Complexity



Scoring Scale

Scale for the Eastern Snake Plain Aquifer:

5	Best
4	Better than average
3	Average
2	Worse than average
1	Worst

Idaho Ground Water Supply Acquisition Decision Support Tool Comparison Chart

Options	Title	Time (From Application to Completion)	Legal complexity	Administrative complexity
1	Water Supply Bank -- Lease a Water Right			
2	Water Supply Bank -- Recharge with Canal Shares (Identify Dried Acres)			
3	Purchase and Transfer (Buy and Dry)			
4	Dual System (GW for Non-consumptive, SW for Consumptive)			
5	Wastewater Recovery (for a Municipality)			
6	Managed Aquifer Recharge by a City et al -- Storage Water Owned			
7	Managed Aquifer Recharge by a City et al -- Storage Water Not Owned			
8	Managed Aquifer Recharge by a City et al -- Natural Flow Water Right Owned			
9	MAR with ARUs			
Scale for the Eastern Snake Plain Aquifer:				
5	Best	2 months	No attorney required.	No agency review needed.
4	Better than average	4 months	Minimal legal work.	Perfunctory office review.
3	Average	6 months	Average legal work.	Detailed office review.
2	Worse than average	1 year	Extensive legal work.	Senior IDWR approval.
1	Worst	> 1 year	Likely lawsuit.	Administrative hearing required.



Thank You

- Speakers
- Special Mention – Keith Esplin



[Home](#) [Symposium](#) [About Us](#) [Tools & References](#) [Our Team](#) [Contact Us](#)

Recharge Development Corporation



**Helping to provide vibrant growth and
development in Eastern Idaho**

www.rechargedevelopment.com

Thank you.

