

Pam M. Muse

From: Jeff M. Tannler
Sent: Friday, August 16, 2013 5:31 PM
To: barbara schroeder
Cc: Pam M. Muse
Subject: RE: Prescott AMA draft plan as presented July 31: a citizen response

Dear Ms. Barbara Schroeder:

Thank you for your comments – we appreciate the time and thought you have put into them. In answer to the questions that you raised:

1. Regarding population, the Department used the 2010 U.S. Census data and recent trends in growth rates to project what the future population is likely to be.
2. The term Recharge refers to the process of adding water to an aquifer, which may occur naturally or artificially. Artificial recharge, when conducted pursuant to appropriate permits issued by ADWR and other agencies, can result in accumulation of long-term storage credits or the right to recover water.
3. The term Recovery means withdrawing (pumping) water that has been previously recharged (stored) pursuant to recharge permits.

As an example, if a party (let's say Municipality) had a supply of renewable water (e.g. treated wastewater or surface water) and wanted to store that renewable supply for use sometime in the future; the Municipality would apply for the appropriate recharge-related permits and usually would build a recharge facility. Once the permits were in place, the Municipality would typically put the renewable water supply into basins, and let that water percolate down to the aquifer. At some point in the future, when the Municipality wanted to put that renewable water supply to use, they would use wells to pump the water that they had previously stored (recharged); this would be called recovery. So, letting the water trickle into the aquifer is recharge; pumping it back out again is recovery.

Please let me know if you have any additional questions or comments.

Sincerely,

Jeff Tannler

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**PROTECTING ARIZONA'S
WATER SUPPLIES
for ITS NEXT CENTURY**

From: barbara schroeder [<mailto:etherstreet@gmail.com>]
Sent: Tuesday, August 13, 2013 9:52 AM
To: Jeff M. Tannler

Cc: Lisa Williams

Subject: Prescott AMA draft plan as presented July 31: a citizen response

August 13, 2013

Dear Mr. Tannler.

I'm writing in response to the AMA draft plan that you helped present to the public on July 31. I attended the presentation and, as a newcomer to your community and to the opportunities for preserving it's natural beauty, I appreciated all of the research and hard work involved. Thank you for your interest in public feedback.

*The "Strategies" list that was presented seemed not to include any attempt to **limit population growth**. Is that accurate? Even if the goal of safe-yield is met every year, how can groundwater be protected if the population continues to increase? Given that water is such an obviously finite resource, such an omission may have dark, political or business origins that the public would thank you to reveal. Many cities have working policies to manage population growth and I would be happy to research these for you if you wish. Santa Barbara in California comes to mind.*

If you have time, I would appreciate if you could clarify some basic vocabulary. The "ADWR Dictionary" on your azwater.gov website does not include the terms "recharge" or "recovery" and these were both used often during the July 31 presentation. "Recharge" is defined on your website outside of its dictionary as the storage of "excess" water, but it seems elsewhere to generally mean the gravitational movement of surface water to groundwater. "Recovery" remains a mystery to me: it seems to mean prevention of water loss: maintaining a green golf course seems to be a huge water loss. What is water loss, to you? Initially I thought "recovery" meant a return of clean water to the rivers and underground water systems, but apparently it means something else.

Sincerely,
B. Schroeder