

# Reclaimed Water Rules Revision Listening Session Workshop

Tucson, AZ  
February 12, 2016

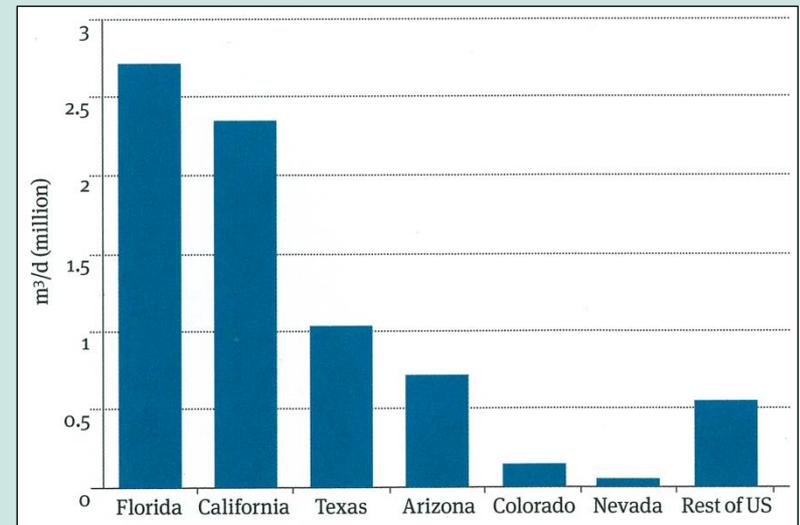


82% of reuse occurs in just four states, Arizona being one



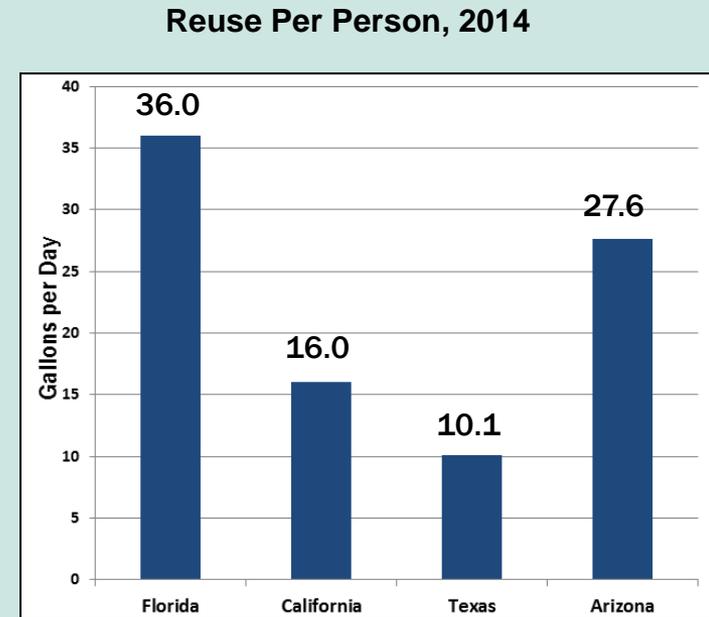
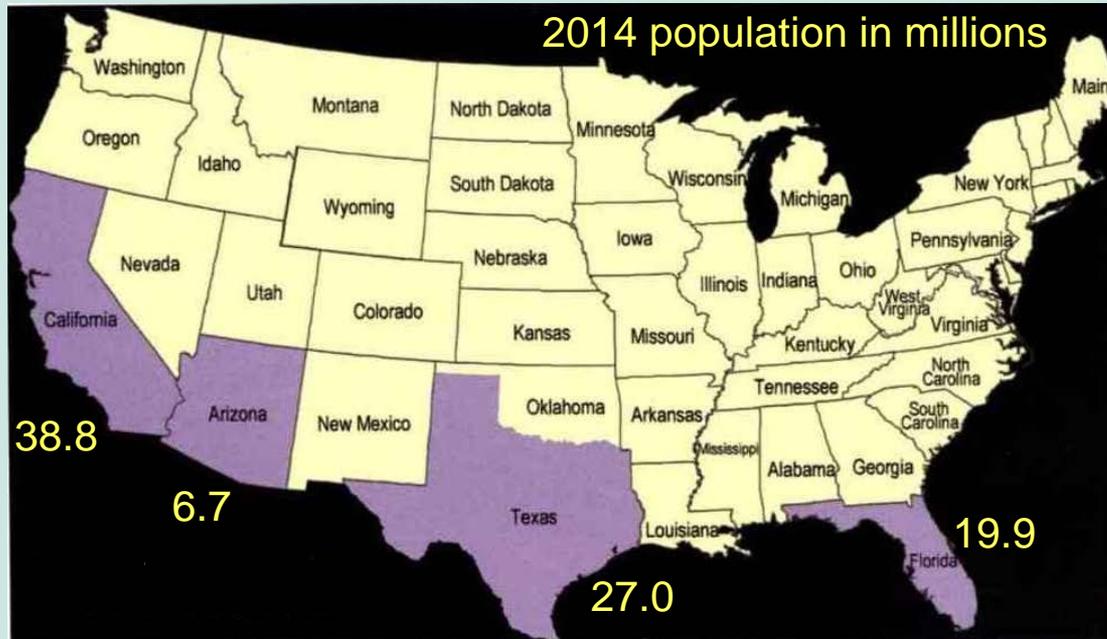
Map: Western Water, July/August 2008

Reused Wastewater Flows, 2014



Source: Bluefield Research

Arizona is 2nd highest nationally in per capita reuse



# Reclaimed Water Use

Water Reuse Capacity (AF/yr)		Reclaimed Water as % of Total Water Supply
Israel	510,000	20%
Singapore	80,783	30%
United States	3,400,000	3%
Florida	955,000	4%
California	807,000	2%
Texas	482,000	3%
Arizona	504,000	7%

**Source:  
Bluefield Research**



...but **#1** at integrating reuse into the water supply portfolio

- 1. Keep up with the rapidly moving reclaimed/reuse field**
- 2. Sustainable water supplies are becoming increasingly important**
- 3. Advance ADEQ Strategic Goals**
  - a. Support environmentally responsible economic growth**
  - b. Enhance Arizona's unique environment**

# ***Rulemaking Process***

## ***Who's Involved?***

**Governor's  
Regulatory  
Review Council  
(GRRC)**

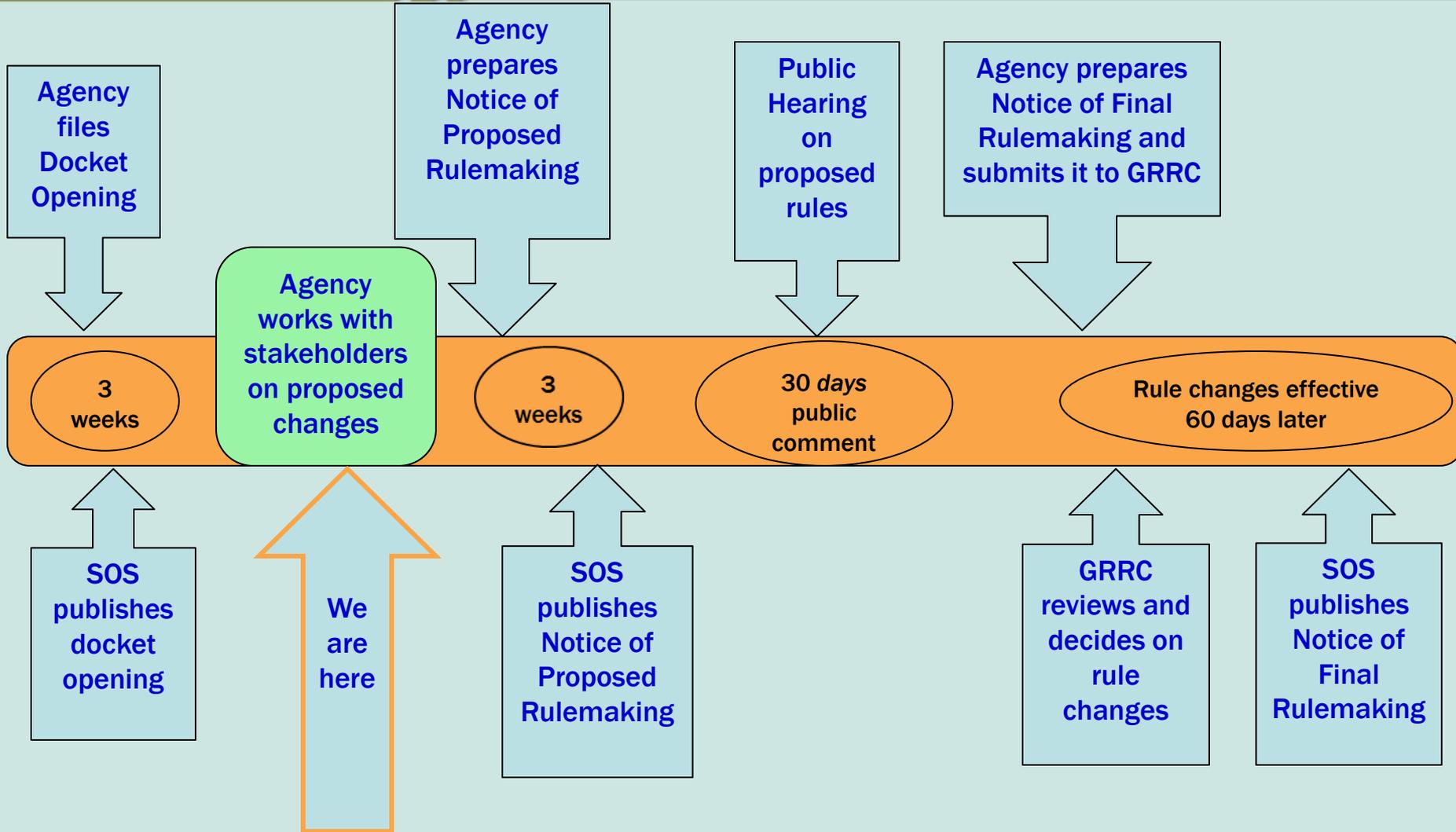
**Secretary of  
State's Office  
(SOS)**

**Agency  
ADEQ**



**Stakeholders**

# Rulemaking Process



## **Reclaimed Water Conveyances (18 AAC, Chapter 9, Article 6)**

### **R18-9-601. Definitions**

### **R18-9-602. Pipeline conveyances**

### **R18-9-603. Open water conveyances**



**Reclaimed water pipeline,  
City of Chandler**



# ***Rules Under Consideration***

**Direct Reuse of Reclaimed Water (18 AAC, Chapter 9, Article 7)**

**Scope: Permits, permitting process**

**R18-9-701 & 702. Definitions & applicability of rules**

**R18-9-703. Transition of permits**

**R18-9-704. General requirements, including signage**

**R18-9-705 & 706. Individual permit requirements**

**R18-9-707. Individual permit with industrial wastewater influence**



# ***Rules Under Consideration***

**Direct Reuse of Reclaimed Water (18 AAC, Chapter 9, Article 7)**

**Scope: Permits, permitting process**

**R18-9-708. Overall general permit requirements**

**R18-9-709 & 710. General permit renewal, transfer, revocation**

**R18-9-711. General permit for private residential gray water use**

**R18-9-712 – 716. General permits for Class A+, A, B+, B, and C water**



# ***Rules Under Consideration***

**Direct Reuse of Reclaimed Water (18 AAC, Chapter 9, Article 7)**

**Scope: Permits, permitting process**

**R18-9-717. General permit for blending facility**

**R18-9-718. General permit for reclaimed water agent**

**R18-9-719. General permit for non-residential gray water use**

**R18-9-720. Enforcement and penalties**



# ***Rules Under Consideration***

**Reclaimed Water Quality Standards (18 AAC, Chapter 11, Article 3)**

**Scope: Standards and allowed end uses**

**R18-11-301 & 302. Definitions and applicability**

**R18-11-303 – 307. RWQS, Classes A+, A, B+, B, and C**

**R18-11-308 & 309. RWQS for industrial use and unlisted uses**

**Appendix A. Table of allowed end uses**



# ***What these revisions don't cover***

- **BADCT requirements for WWTPs (under APP)**
- **Fees for reclaimed water permits (fee rules)**
- **Criteria for recharge of reclaimed water (permitted under APP)**
- **Development of certified operator classification for reclaimed water distribution systems (would fall under operator certification rules)**



# ***Today's Listening Session Workshop Process***

## **Five Categories:**

- 1. Conveyances/Infrastructure**
- 2. Permits/Permitting Process**
- 3. End Uses and Reclaimed Water Quality Standards**
- 4. Gray Water**
- 5. Other**

# ***Today's Listening Session Workshop Process***

- **15 minutes total**
- **Write suggested changes/improvements on Post-it notes**
- **Post on one of the category topics**

***Please use a verb and a noun in your Post-it comment.***

**We'll review and discuss together the Post-it notes for each category**