

The Future of Potable Reuse in Arizona

A Changing Conversation

Presented by:

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***NORTHERN ARIZONA MUNICIPAL
WATER USERS ASSOCIATION***

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The 5 “D’s” of Discussing Potable Reuse

**30 Years Ago: Deny (or)
Delay**

15 Years Ago: Depend

5 Years Ago: Disguise

Today: Direct



Arizona's Potable Reuse Triangle

**Governor's
Blue Ribbon
Panel**



**Future Water
Supply Needs**

**Steering Committee on
Arizona Potable Reuse (SCAPR)**

SCAPR Objectives

1. Identify impediments
2. Define a common terminology
3. Gather best practices, state of the industry information, and case studies
4. Track CA and TX efforts
5. Create Advisory Panels
6. Conduct a scoping process to provide recommendations to ADEQ/ADWR
7. Develop a road map to potable reuse in Arizona

Process

Form the Steering Committee

Conduct Advisory Panels

- Technology Toolbox
- Emerging Contaminants (APEC)
- Public Acceptance
- Water Quality Regulations & Guidance

White Paper(s)

Tech Toolbox Outcomes

May 2013

- Not a “one size fits all” technology solution
- Develop a table of treatment technology options with targeted results
- Develop a decision support flow chart for treatment trains
 - Input starting point
 - Input desired outcome(s)
- Support with case studies and prior work



Public Acceptance Outcomes

July 2013

- **Build trust**, which also means **start early**
- Have a **structure** and a **timeline** for decisions
- Use clear/consistent **terminology**
- Make a compelling case for **investment**
- Engage **trusted experts**
- Cultivate trusted **community champions**

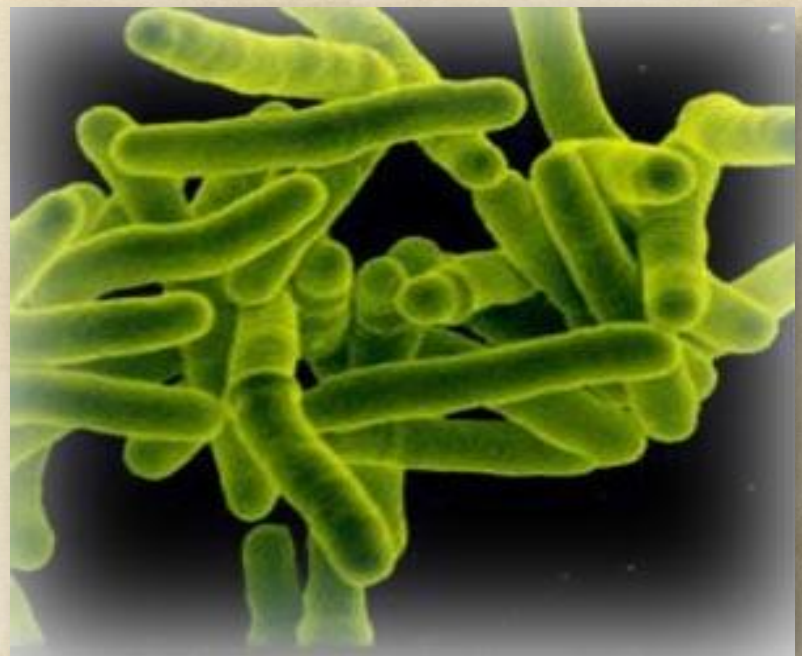


Option 2 – Just wait for the crisis to hit...

Water Quality Outcomes

November 2013

- Framework Objectives
 - Performance-based
 - “Permit-able”
 - Flexible
- Decisions...
 - Virus/Giardia/Crypto
 - Barriers
 - Monitoring/CCP
 - Diluent



APEC Status

May - December 2013

Unregulated compounds

All aspects of the water cycle

- Chemical compounds
- Biological
- Public education

What do we need to know for potable reuse?



Recycled Water in Arizona: Right Water for the Right Use

DPR

**Environmental
Uses**

**Indirect
Potable**



**Reclaimed
Water**

**Energy
Production**