

A Menu of Options: The Future of Potable Reuse in Arizona

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April 8, 2014



The 5 “D’s” of Discussing Potable Reuse

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

15 Years Ago: Depend

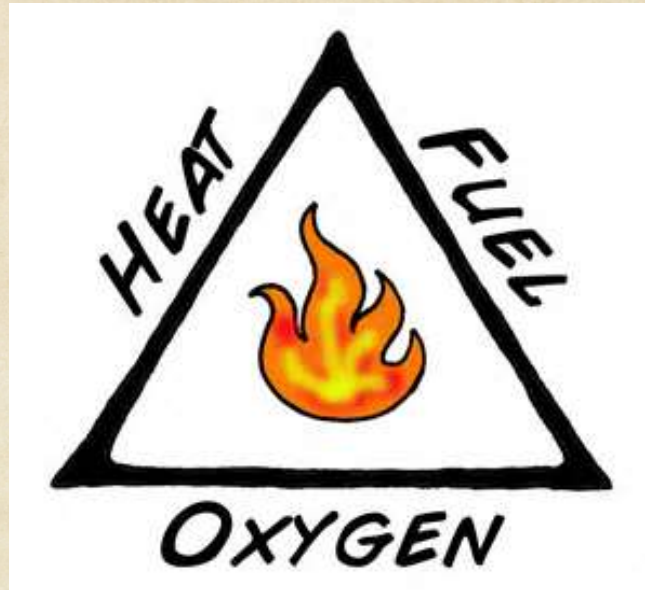
5 Years Ago: Disguise

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)

Technology Toolbox Outcomes

- 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



APEC Status

Unregulated compounds

All aspects of the water cycle

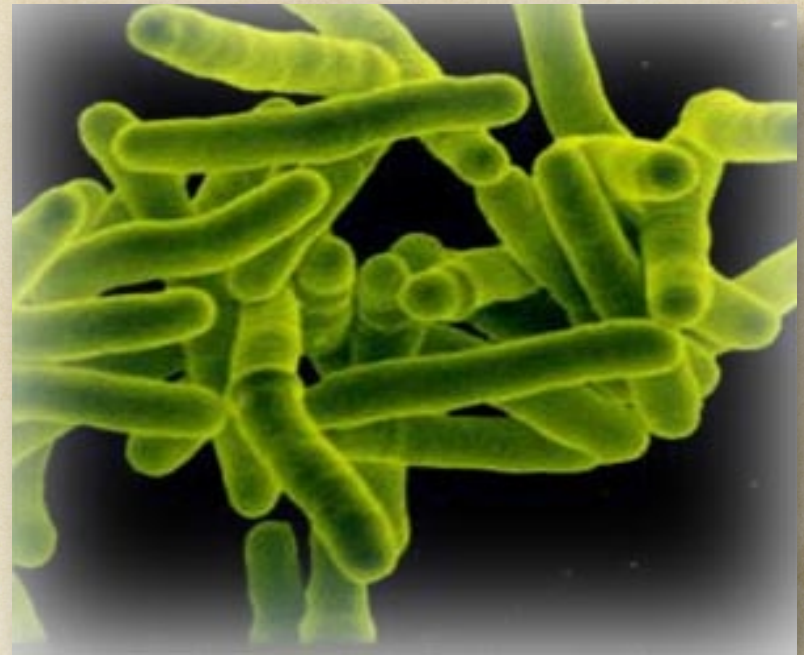
- Chemical compounds
- Biological
- Public education

What do we need to know for potable reuse?



Water Quality Outcomes

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



Public Acceptance Outcomes

- **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...

Next Steps

- White Papers in development
- Gear up for multi-phase engagement:
 - Expand stakeholder involvement
 - Workshops/briefings with elected officials
 - Legislative and regulatory procedures
- Provide a path forward for communities

Recycled Water in Arizona: Right Water for the Right Use

DPR

**Environmental
Uses**

**Indirect
Potable**



**Reclaimed
Water**

**Energy
Production**