

March 25, 2014  
Inland Empire WaterReuse Chapter

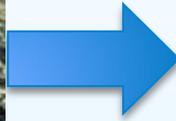
# Direct Potable Reuse

## Observations and Lessons Learned

**Tom Richardson, P.E.**  
**RMC Water and Environment**

# Evolution of Potable Reuse

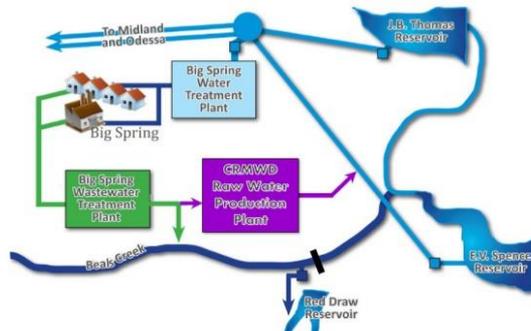
## Montebello Forebay



## Water Factory 21



## Proposed Big Spring Reclamation Project



## San Diego Reservoir Augmentation



# Observation – Surface water discharge regulations provide driver for DPR

- State Board policy prompts potable reuse



- IPR limitations

- Regulatory requirements associated with surface water discharges
- Conveyance and retreatment infrastructure requirements (\$)



# Observation- Full advanced treatment provides sufficient level of barriers

Microfiltration/Ultrafiltration



Reverse Osmosis

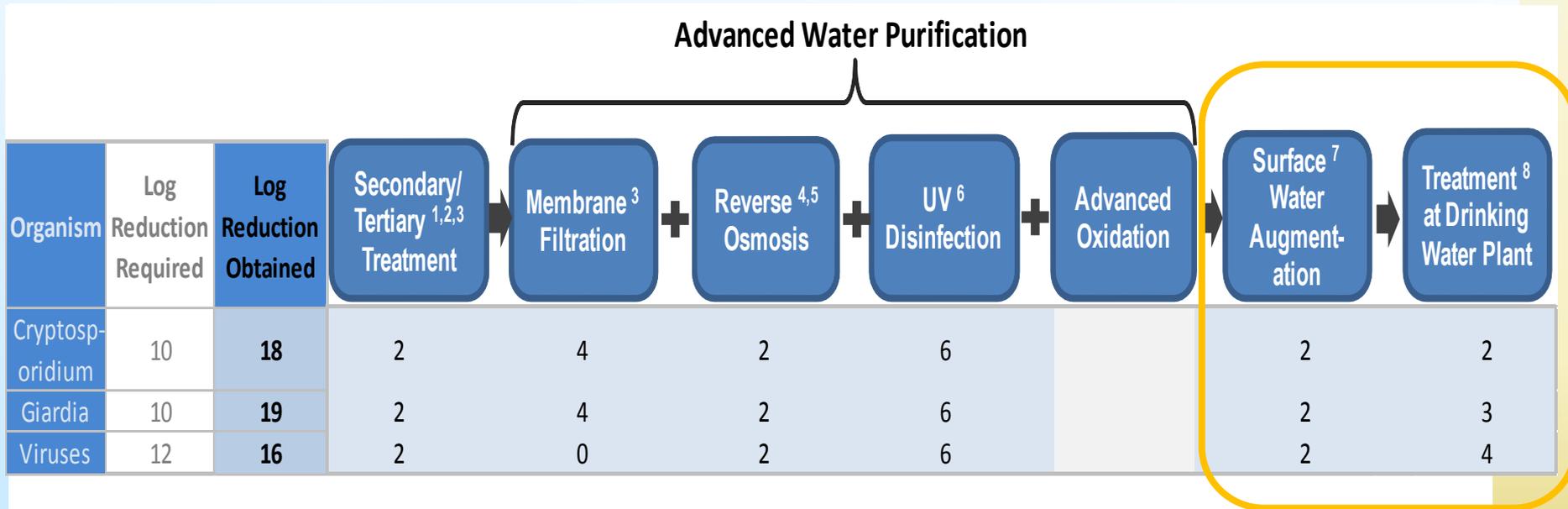


Ultraviolet Light /  
Hydrogen Peroxide



*Issue is “infallible reliability”*

# Observation– There is no such thing as “infallible reliability”



**Observation -  
Incremental  
approach  
helps bring  
public along**



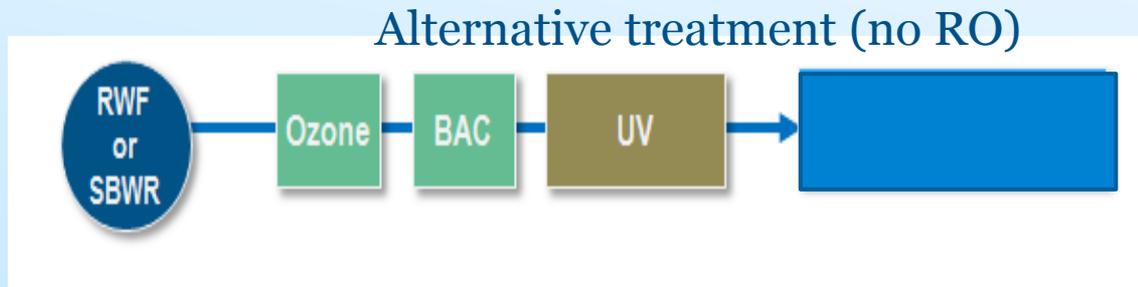
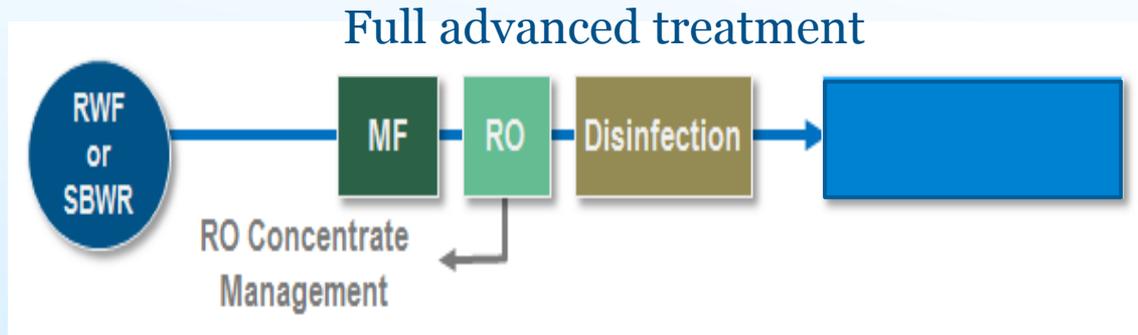
# Observation – Gain support of business and environmental community and leverage

*Friends of Infrastructure*





# Observation – DPR will require some amount of salt removal (RO)



*RO provides tool in salt/nutrient management*

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