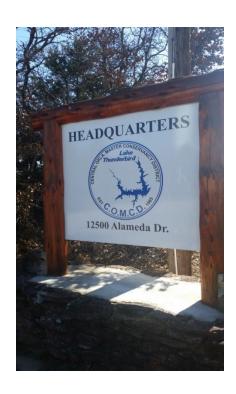
Water Reuse? @ Lake Thunderbird

Western States Water Council
Workshop
October 6, 2015

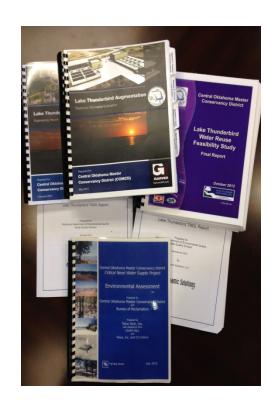
Why Reuse?

- Multiple Studies
- Federal Legislation
- State Legislation
- Multiple Challenges
- New Water Quality Standards
- New Water Reuse Regulations



Multiple Studies

- Augmentation 2010 Tetra Tech
- Reuse & Non-Reuse 2012
 Alan Plummer Assoc.
- Preliminary Engineering 2014
 Garver
- Modeling for nitrates/nitrites& TDS 2015 Garver
- CEC studies 2016 Garver



Federal & State Legislation

S802

Sen. Inhofe – US Senate Rep. Cole & Lankford – US House Allowed non-project water to be imported into Lake Thunderbird.



 SB 1187 Allows reuse discharge into SWS lakes "where such discharges do not contain concentrations greater than the concentrations in the existing water body"

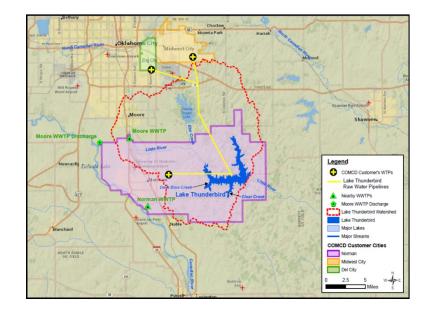
New Regulations & Standards

- OML Organized working group to draft reuse standards in 2008
- ODEQ Initially opposed reuse until legislative action in 2012 forced them to develop regulations
- OWRB Developed additional Water Quality Standard to include SWS-r (Sensitive Water Supply for Reuse)



Challenges

- Lake Thunderbird on Clean Water Act 303(d)
 - list of impaired water bodies
 - Chlorophyll a
 - Turbidity
 - Dissolved Oxygen
 - 2013 TMDL completed



- Cultural change resistance with regulators
- Public education and acceptance

Challenges

- Board of Directors changing directors and reeducation
- Customer cities differences
- First review by ODEQ of first indirect potable reuse project under rules to be adopted in 2016
- CEC (Contaminants of Emerging Concern)