

# Types of Water Reclamation Permits

- Waste Discharge Requirements
- Water Reclamation Requirements
- Master Reclamation Permit
- General Permit for Landscape Irrigation
  - ◆ Water Quality Order No. 2009-0006-DWQ

# WDRs versus WRRs

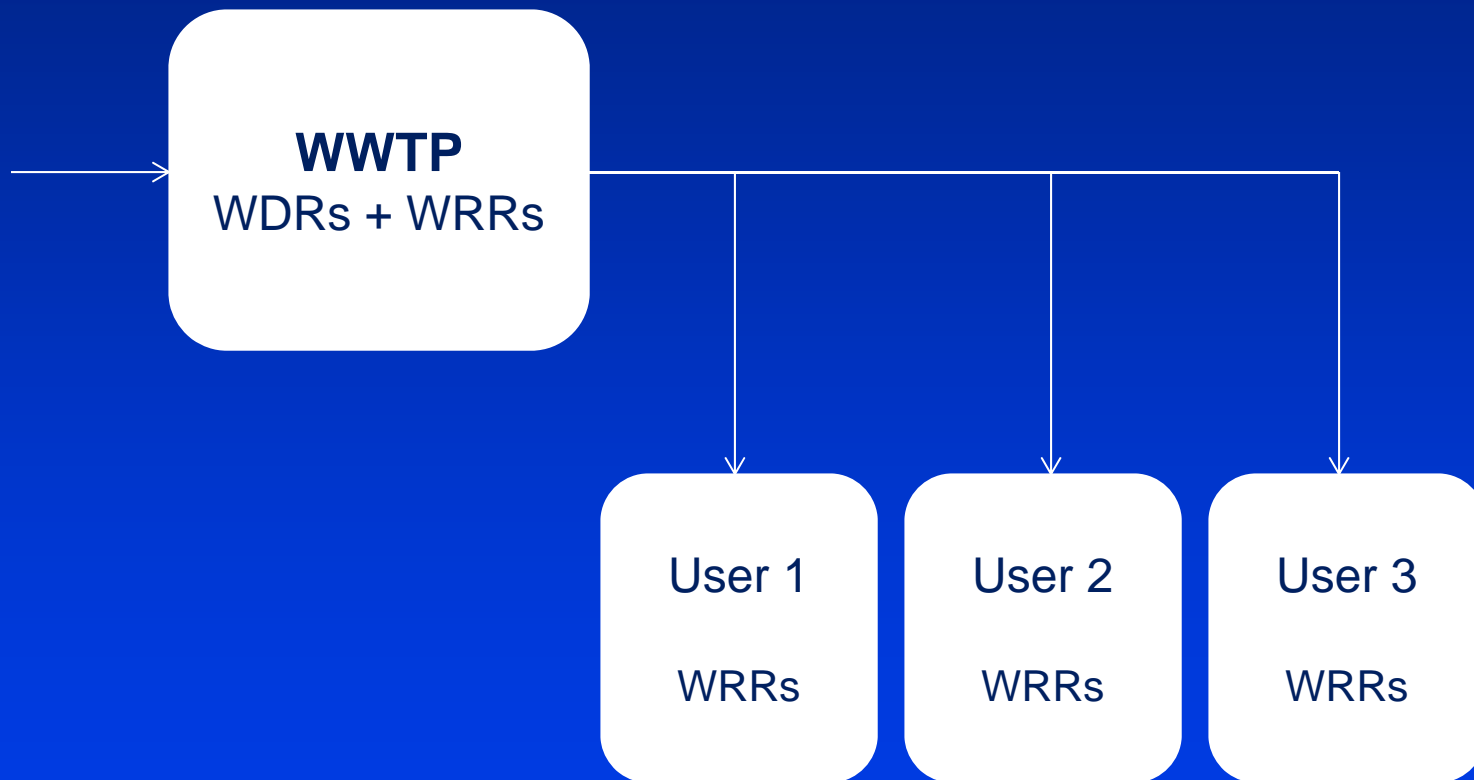
## WDRs

- For discharges of waste
- Implement water quality objectives
- For protecting receiving water quality

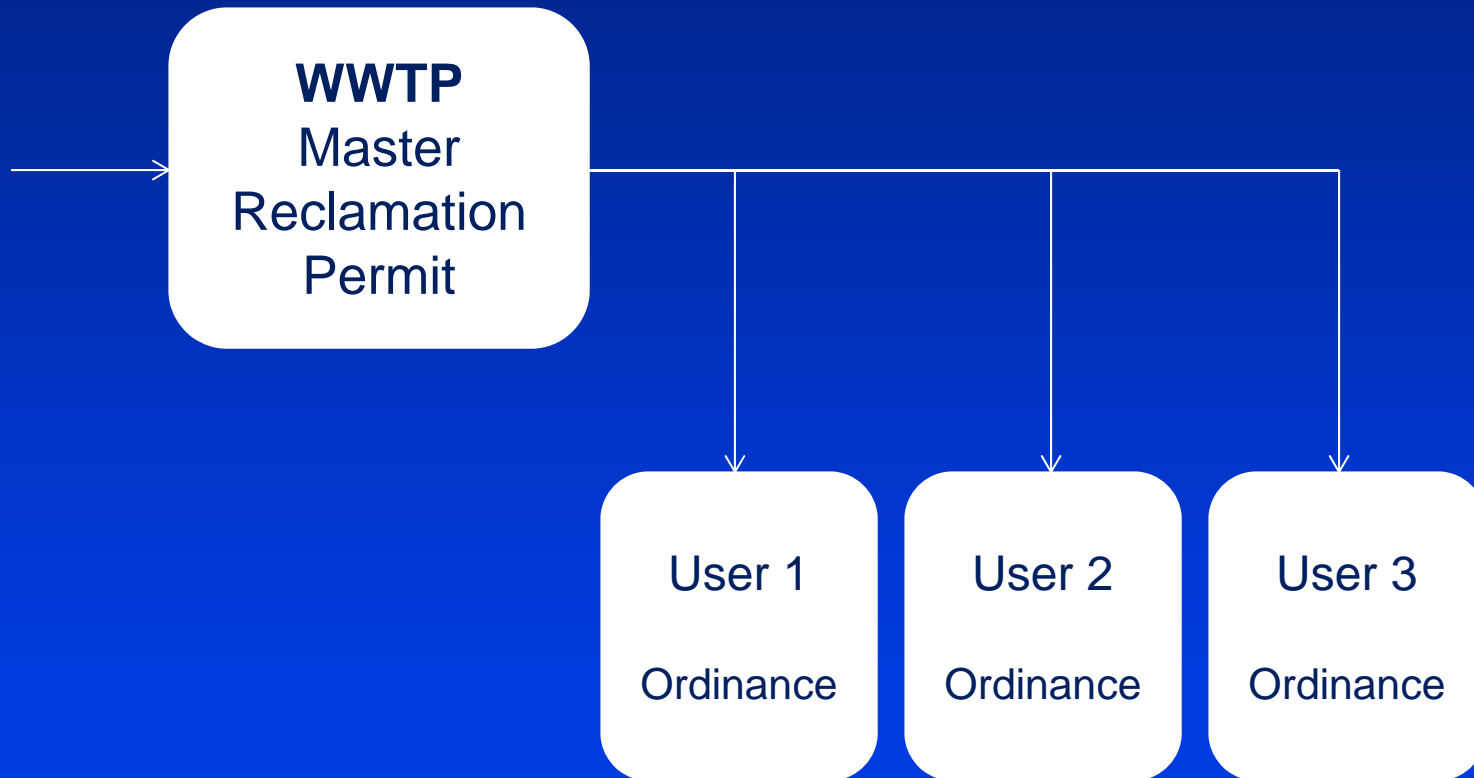
## WRRs

- For use of recycled water
- Implement the water recycling criteria
- For protecting public health

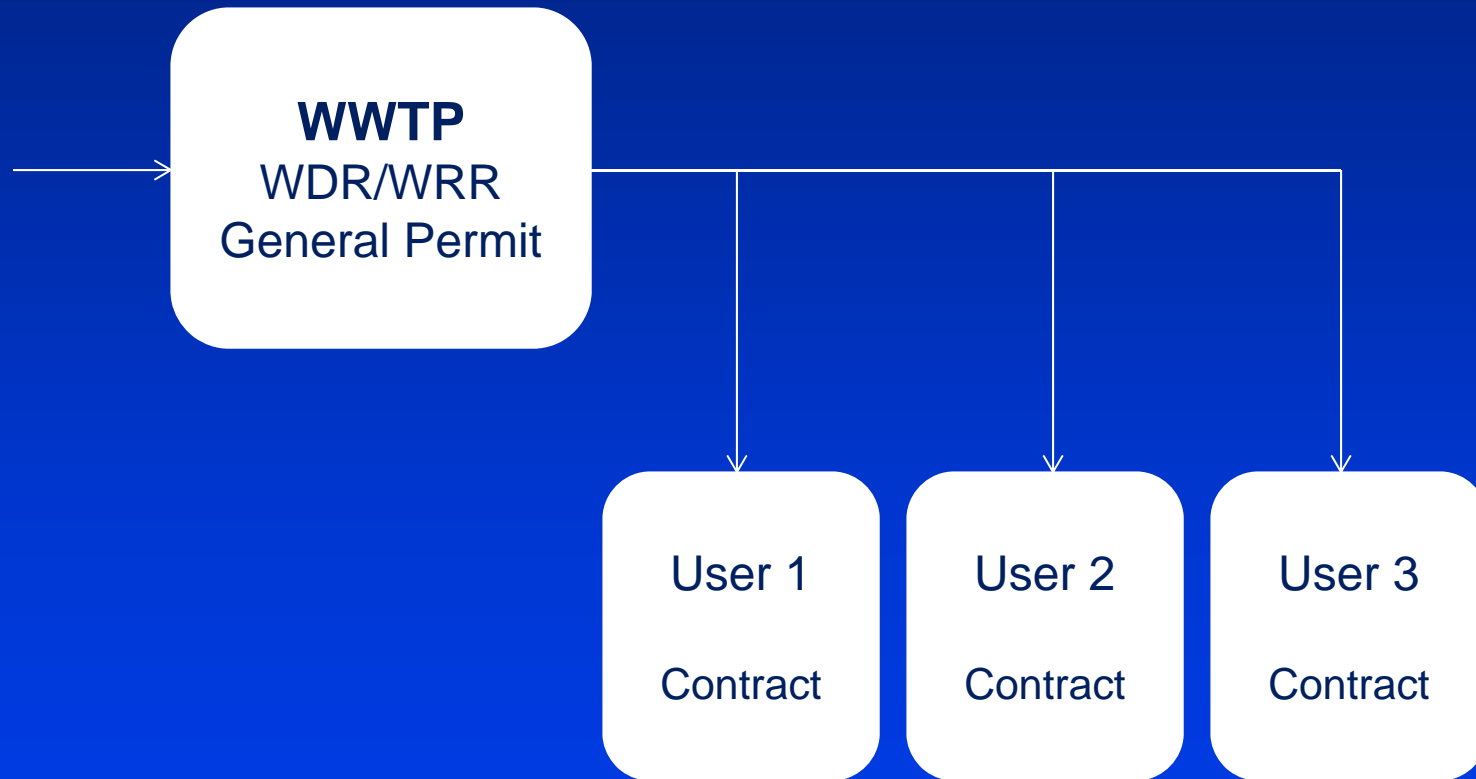
# Permitting Strategy - 1



# Permitting Strategy - 2



# Permitting Strategy - 3



# Permitting Process

- **Waste Discharge Requirements or Water Reclamation Requirements**
  - ◆ Report of Waste Discharge (RWD; Form 200)
  - ◆ Technical Report to supplement RWD
  - ◆ Title 22 Engineering Report (DPH approval)
  - ◆ Demonstration of CEQA compliance
  - ◆ Filing Fee

# Permitting Process

- **Existing Master Reclamation Permit**
  - ◆ CEQA already completed
  - ◆ DPH approval already obtained
  - ◆ Application submittal to and approval from permitting authority (owner of WWTP instead of RWQCB)

# Master Reclamation Permits

- + City of Hanford
- x City of Tulare
- ⊗ Millerton New Town
- ⊕ Tehachapi Cummings
- ⊙ City of Clovis
- City of Lathrop
- ☆ City of Lincoln
- ⊛ City of Roseville





# Permitting Process

- **General Permit for Landscape Irrigation (Water Quality Order No. 2009-006-DWQ)**
  - ◆ Notice of Intent
  - ◆ Operation and Maintenance Plan
  - ◆ Filing fee

# Types of Recycled Water

- Undisinfected Secondary
- Disinfected Secondary-23
- Disinfected Secondary-2.2
- Disinfected Tertiary
- Advanced Treatment

# Uses of Recycled Water

- **Undisinfected Secondary recycled water:**
  - ◆ Non food trees
  - ◆ Fodder and fiber crops
  - ◆ Seed crops (not for humans)
  - ◆ Food crops that get processed
  - ◆ Ornamental nursery
  - ◆ Flushing out sanitary sewers

# Uses of Recycled Water

- **Disinfected Secondary-23 recycled water:**
  - ◆ Cemeteries
  - ◆ Freeway landscapes
  - ◆ Restricted golf courses
  - ◆ Non-restricted ornamental nursery stock and sod farms
  - ◆ Pasture for milk producing animals
  - ◆ Industrial or commercial cooling (non-mist)

# Uses of Recycled Water

- **Disinfected Secondary-2.2 recycled water:**
  - ◆ Food crops where edible portion is produced above ground and not contacted by recycled water

# Uses of Recycled Water

- **Disinfected Tertiary recycled water:**
  - ◆ Flushing toilets and urinals
  - ◆ Food crops
  - ◆ Parks, playgrounds, and schools
  - ◆ Unrestricted access golf courses
  - ◆ Residential landscape
  - ◆ Industrial or commercial cooling that creates a mist

# Uses of Recycled Water

- **Advanced Treatment recycled water:**
  - ◆ Direct injection recharge
  - ◆ Future surface water augmentation
  - ◆ High tech industrial

# Future Permitting

- General Order for use of recycled water for:
  - ◆ irrigation of fiber, fodder, and seed crops not used for human consumption (undisinfected secondary)
  - ◆ Irrigation of vineyards and orchards (disinfected secondary-2.2)