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

<table>
<thead>
<tr>
<th>WDRs</th>
<th>WRRs</th>
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<tbody>
<tr>
<td>● For discharges of waste</td>
<td>● For use of recycled water</td>
</tr>
<tr>
<td>● Implement water quality objectives</td>
<td>● Implement the water recycling criteria</td>
</tr>
<tr>
<td>● For protecting receiving water quality</td>
<td>● For protecting public health</td>
</tr>
</tbody>
</table>
Permitting Strategy - 1

WWTP
WDRs + WRRs

User 1
WRRs

User 2
WRRs

User 3
WRRs
Permitting Strategy - 2

WWTP Master Reclamation Permit

- User 1: Ordinance
- User 2: Ordinance
- User 3: Ordinance
Permitting Strategy - 3

WWTP
WDR/WRR
General Permit

User 1
Contract

User 2
Contract

User 3
Contract
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
× 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

- Undisinfectected 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 (undisinfection secondary)
  - Irrigation of vineyards and orchards (disinfection secondary-2.2)