Glendale Recycled Water Update

State Water Resources Control Board
November 8, 2017
City of Glendale & Water Sources

- Incorporated 1906
- Third largest City in LA County
- Approx. 200,000 Residents
- Approx. 34,000 water services
- 24,000 AFY demand
- One of 13 Founding MWD Member Agencies in 1928
- Sources:
  - Imported – 58%
  - Imported Return Flows (ULARA) – 30%
  - Verdugo Basin – 5%
  - Recycled – 7%
DAC and SDAC Served
Imported Water

- 95% of Glendale’s water is imported
- San Fernando Basin
  - Los Angeles owns all rights to “native” water
  - Glendale’s return-flow credit: limited to 20% of delivered water to basin including RW
- Challenges of Imported Water
  - Expense
  - Reliability
    - Drought
  - Glendale reduced potable water deliveries by 20% during the drought
- Glendale has rights to wastewater flows generated by water it imports
  - Joint Powers Agreement with Los Angeles to split LAGWRP discharge
Wastewater Operations

• 1976: Glendale is a co-owner of the new LA – Glendale Water Reclamation Plant (LAGWRP) sharing in 50% of costs and tertiary treated water

• Treatment capacity: 20 MGD

• Current average treatment: 16 MGD (18,000 AFY)
  – Glendale’s half: 9,000 AFY

• Glendale’s current RW demand: 1,700 to 2,000 AFY

• Currently, Glendale is discharging 7,000 AFY (6.3 MGD) of tertiary treated water to the LA River

• Water that could be reused to meet non-potable demands
Recycled System

- **1978:** First recycled water use was for cooling towers at GWP’s Grayson Power Plant
- **1992-2014:** Glendale invested over $20.3 million in expansions
- Existing use: 1,700 to 2,000 AFY
- Proposed expansion: 3,500 AFY (400 AFY Glendale; 3,100 AFY Pasadena)

- Approximately 21 miles of recycled water mains
- 6 RW pump stations
- 5 RW storage tanks
- 78 recycled water meters
- Uses include irrigation, cooling, dual-plumbing, dust control
Recycled Water Planning

- 1983: EIR for “Wastewater Reclamation Facilities Plan” included Glendale, Pasadena, and portions of LA
- 1993: Agreement between Pasadena and Glendale for Recycled Water
  - Glendale’s system built to accommodate Pasadena’s demands – including pumping facility at LAGWRP
- Glendale Municipal Code: “Extend and enhance local water supplies by using recycled water for special non-potable purposes to free up potable supplies for higher uses.”

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<tr>
<th>Annual Average Amount of Wastewater Discharged at LAGWRP (AFY)</th>
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<tbody>
<tr>
<td>Existing Discharge</td>
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<td>Proposed reduction</td>
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<td>Proposed Discharge</td>
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Benefits of Recycled Water

• City and regional benefit of reducing imported water from Bay Delta and MWD
• Increased water supply reliability
• Maximum beneficial use
  – Multiple uses better than one
  – Highly treated water discharged to ocean
TO SUPPORT CONSERVATION WE USE RECYCLED WATER FOR IRRIGATION

DO NOT DRINK