Potential Regional Recycled Water Supply Program

Water Planning & Stewardship Committee
Item 9-1
September 21, 2015
Current Opportunity for Regional Program

- Development of new regional water supply
  - Deliveries for recharge of GW basins
  - Increased diversity consistent with IRP
    - Conservation
    - Desalination
    - Recycling
    - Stabilization of imported water supplies
- Collaborative partnership between Metropolitan & LACSD
  - Similar to OCWD/OCSD GW Replenishment System (GWRS) agreement
Two regional special districts

Decade of discussions on water recycling
- 2010/12 - Pilot studies on treatment feasibility
- 2015 - Discussions on a potential partnership

Regional recycled water program at JWPCP for indirect potable reuse
- Phased approach
  - Initial demonstration phase
  - Several operational phases possible up to 150 MGD
Joint Water Pollution Control Plant

Operational Boundary
Objectives for Each Agency

LACSD
- Increase overall reuse within its system
- Begin beneficial reuse at the Joint Water Pollution Control Plant

Metropolitan
- Diversify regional supplies
- Improve storage & delivery capabilities
- Provide new source of high quality, drought-resistant water
**Approach to the Program**

- **Initial Demonstration Phase**
  - 1 MGD demonstration plant
  - Feasibility studies for full scale facilities
  - Financing plan
- **Phased approach to full scale facilities**
- **Provisions for off-ramps, if necessary**
Joint Water Pollution Control Plant

Demo Plant Site

Full Scale Plant Site
Subject to each Board’s approvals

LACSD Responsibility:
- Deliver secondary-treated water to demo plant
- Provide land & utilities
- Dispose of waste streams
- Perform influent lab analyses & maintain source quality control program

Metropolitan Responsibility:
- Fund, design, construct, operate & maintain 1 MGD AWT demo plant
Subject to each Board’s approvals

If desired to proceed, LACSD Responsibility to:

- Deliver secondary-treated source water to AWT plant
- Commit to level of quality for source water
- Implement, enforce (& strengthen if necessary) ongoing source quality control program
- Dispose of brine & waste streams
- Lease land for AWT plant
Tentative Agreement Terms for Full Scale Facilities

Subject to each Board’s approvals

If desired to proceed, Metropolitan responsibility:
- Provide AWT plant & delivery system
  - Fund, design, construct, operate & maintain entire system
  - Determine phasing
- Provide exchange water into LACSD service area
  - Approx. 1% of product water

Sales Revenue
- Metropolitan revenue
Additional Considerations

- Potential State Funding
  - Grant funds & SRF low interest loans
  - Joint funding application
  - Phasing of requests to match progress of program

- CEQA Compliance for Full Scale Phase 1
  - AWT plant
  - Delivery system
Demonstration Phase

- Demo plant
- Feasibility studies
- Financing plan
Potential Phase 1 of Program (60± MGD)
Potential Full Program (Up to 150 MGD)
Next Steps

October 2015 – Board Discussion
- Review of MOU terms

November 2015 – Potential Board Action
- Authorization of MOU with LACSD
- Appropriation of funds for feasibility studies