Cooperative Agreement to Protect Water Quality and Encourage the Conjunctive Uses of Imported Water in the Santa Ana River Basin

October 25, 2019
Imported Water Supplies

State Water Project

Colorado River
TDS for Imported Supplies (2018 data)

- **Colorado River**: 628
- **SWP**: 247
- **SWP (CA Water Fix)**: 147
- **Basin Plan (lowest SWP)**: 230
- **Basin Plan (lowest CR)**: 580

Colors represent:
- **Low (1983)**: Dark blue
- **Average**: Light blue
Goals of the Agreement

- Encourage use of imported water in the Santa Ana River Basin
- Meet salinity objectives in Regional Board’s Basin Plan with imported water recharge
- Encourage voluntary transfers of water and water rights
- Provide a different approach than initially (2006) proposed general waste discharge requirements
- Collect, compile and analyze N/TDS data for imported supplies
- Agreement approved in 2008
Parties

• California Regional Water Quality Control Board
• Water Agencies
  • City of Corona
  • Eastern Municipal Water District
  • Elsinore Valley Municipal Water District
  • Orange County Water District
  • City of Riverside
  • San Bernardino Valley Municipal Water District
  • San Gorgonio Pass Water Agency
  • Western Municipal Water District
More SWP Imported in Wet Years When TDS is Lowest
Original Reporting Cycle (2008 Imported Water Agreement)

Modeling (every 6 years)

WQ Summary (every 3 years)
Motivation for Amendment No. 1

- Overall groundwater management zone WQ does not change rapidly
- Analysis and reports submitted show compliance with WQ objectives
- Desire to be more efficient and consider utilization of new model
Updated Reporting Cycle With Amendment No. 1

- Modeling (every 10 years)
- WQ Summary (every 5 years)
Basins in Order of Flow (Starting upstream)

Upper Watershed (East)
- Beaumont
- Yucaipa
- San Timoteo

Upper Watershed (West)
- Bunker Hill A and B
- Lytle
- Rialto and Colton

Middle
- Riverside A – F
- Arlington
- Temescal and Elsinore

Lower
- Orange County
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>2004</td>
<td>Max Benefit Beaumont, Yucaipa and San Timoteo</td>
</tr>
<tr>
<td>2008</td>
<td>Co-op Agreement (10-year term, auto renews)</td>
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<tr>
<td>2009</td>
<td>First reports due</td>
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<td>2010</td>
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<td>2011</td>
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<td>• Modeling report</td>
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<td>• Summary reports</td>
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<td>2012</td>
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<td>2013</td>
<td>• Modeling Report</td>
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<td>2014</td>
<td>• Modeling Report</td>
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<td>2015</td>
<td>• Summary Reports</td>
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<td>• Modeling Reports</td>
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<td>2016</td>
<td>• Modeling Report</td>
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<td>2017</td>
<td>• First term ends</td>
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<td>• Terms reviewed</td>
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<td></td>
<td>• Modeling Report Due</td>
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<td>2018</td>
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Comparison of Monitoring and WQ Modeling

Maximum Benefit (GW & SW)
- Revised objective, typically based on modeling
- Monitoring required
- Modeling typically required under certain conditions

Basin Monitoring Program Task Force (SW)
- Wasteload Allocation Model (10-year interval)
- Ambient WQ Monitoring for each MZ (3-year interval)

Imported Water Cooperative Agreement (GW)
- 20-year projections (10-year interval)
- Ambient WQ monitoring for MZ (3-year interval)
- WQ Summary for imported water recharged (5-year interval)
Recently Developed Integrated Model

- Integrated Model developed to support Upper Santa Ana Habitat Conservation Plan, funded by Valley District, IEUA, OCWD and Western MWD
- Includes groundwater and surface water
- Can be enhanced to include TDS and nitrate modeling also
- Provides opportunity to combine modeling efforts for Wasteload Allocation and Imported Water Recharge modeling
- Cooperative Agreement specifies independent peer review of Integrated Model WQ enhancement should that be pursued