

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

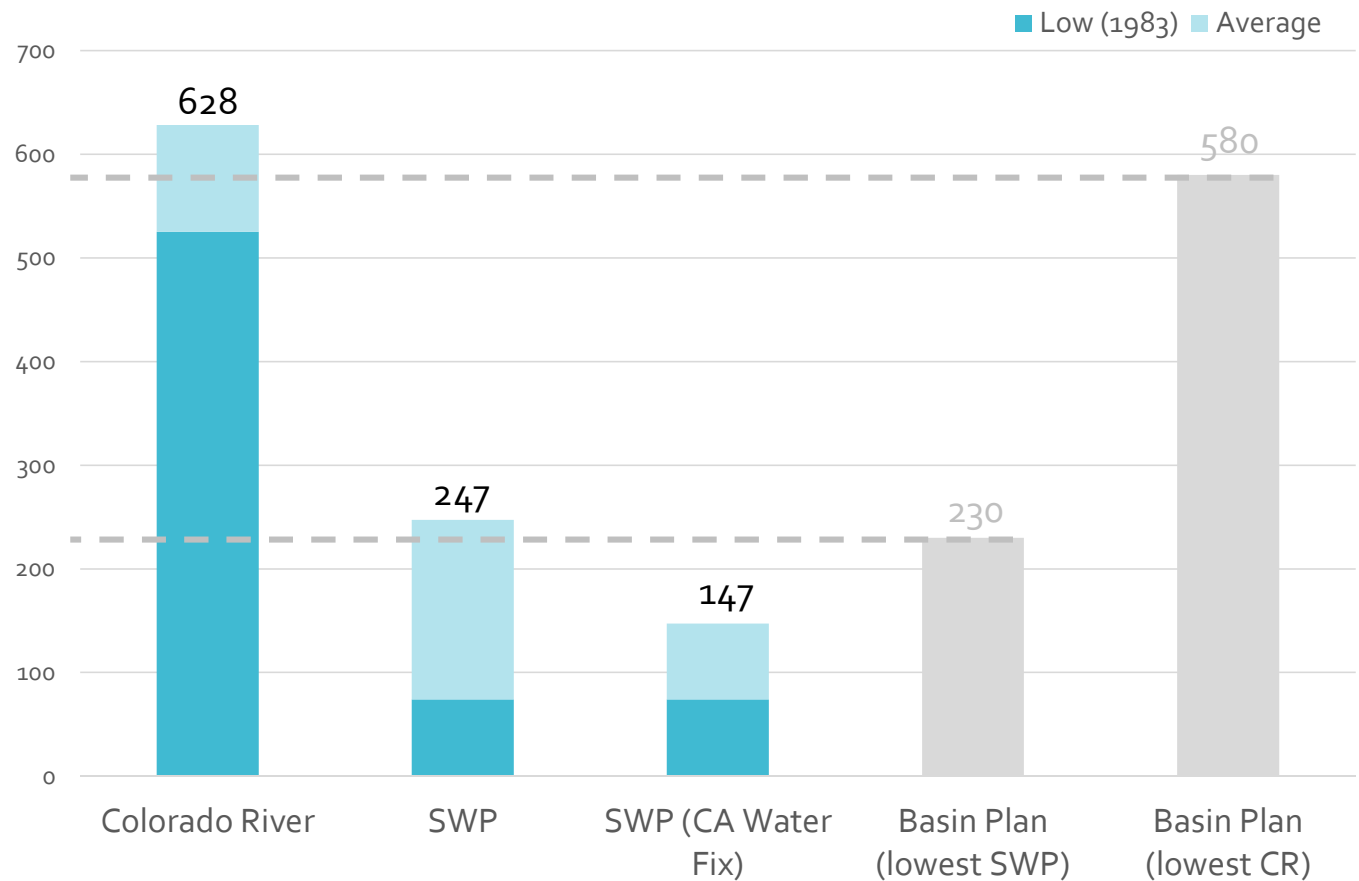
State Water Project



Colorado River



TDS for Imported Supplies (2018 data)



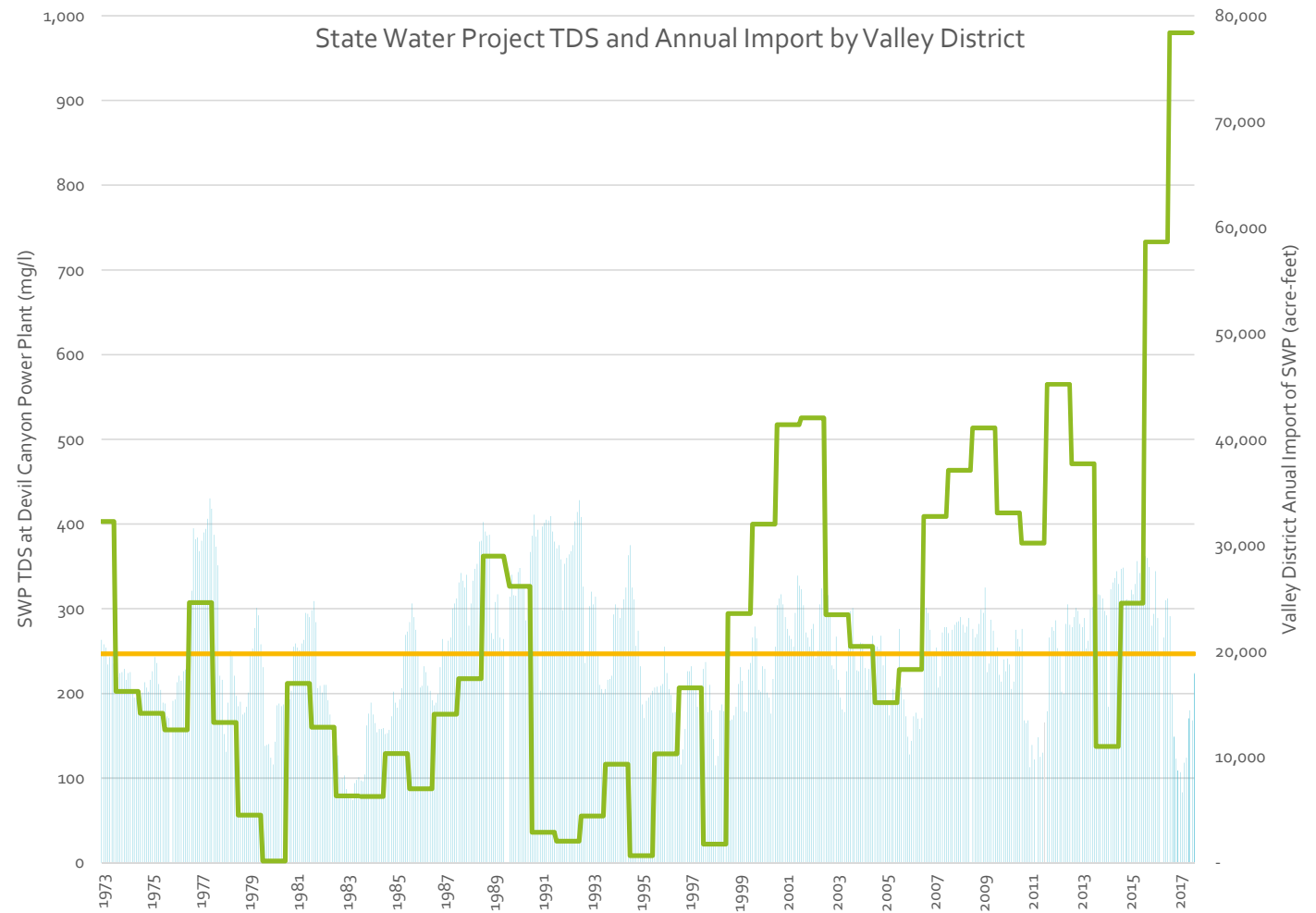
Goals of the Agreement

- 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 Geronio 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



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

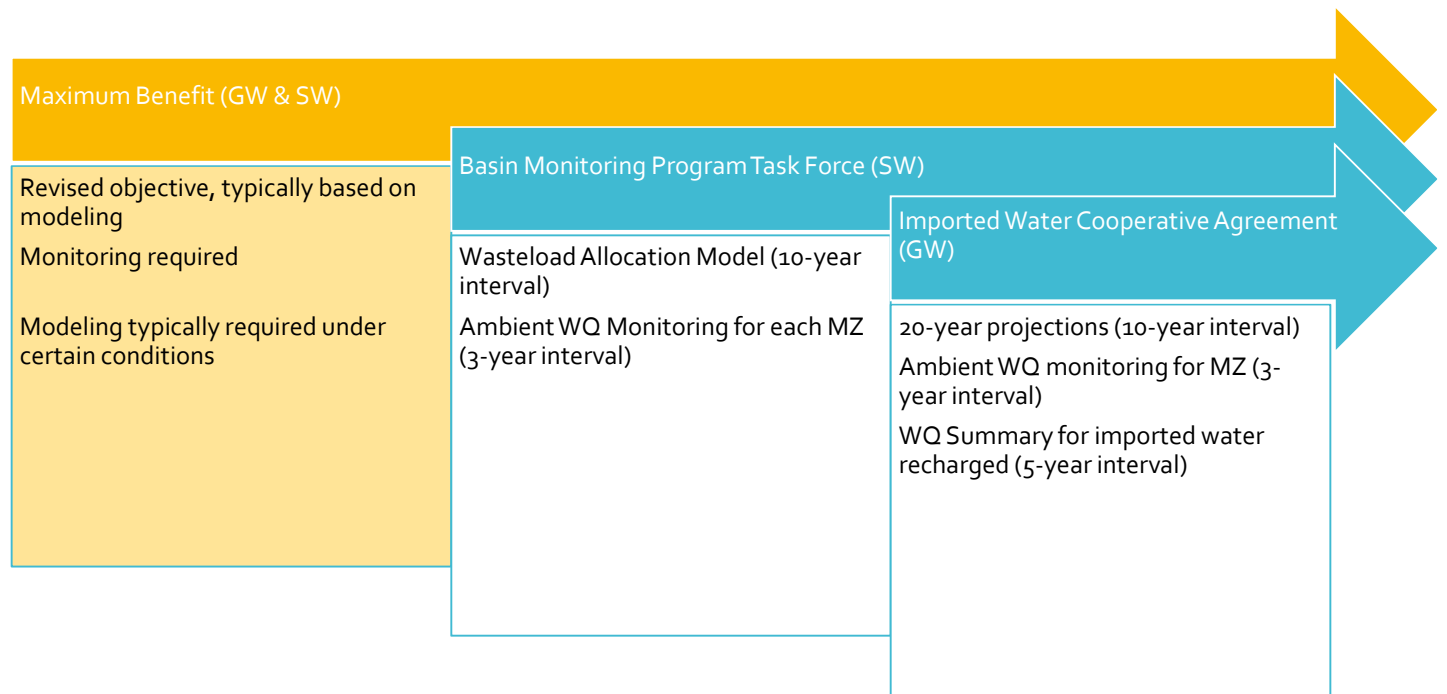
Lower

- Orange County

Timeline

2004	2008	2009	2010	2011	2012	2013
<ul style="list-style-type: none"> • Max Benefit Beaumont, Yucaipa and San Timoteo 	<ul style="list-style-type: none"> • Co-op Agreement (10-year term, auto renews) 	<ul style="list-style-type: none"> • First reports due 			<ul style="list-style-type: none"> • MOU • Modeling report • Summary reports 	<ul style="list-style-type: none"> • Modeling Report
2014	2015	2016	2017	2018		
<ul style="list-style-type: none"> • Modeling Report 	<ul style="list-style-type: none"> • Summary Reports • Modeling Reports 	<ul style="list-style-type: none"> • Modeling Report 		<ul style="list-style-type: none"> • First term ends • Terms reviewed • Modeling Report Due 		

Comparison of Monitoring and WQ Modeling



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