

Supplemental Water Supply Program



Program Outline

- Background
- Future Water Demands
- Annual Water Consumption
- Supplemental Water Supply Program Components
 - Recycled Water Program
 - Purchased Water
- Supplemental Water Supply Fee Calculation



Indio and CVWD Settlement Agreement Highlights

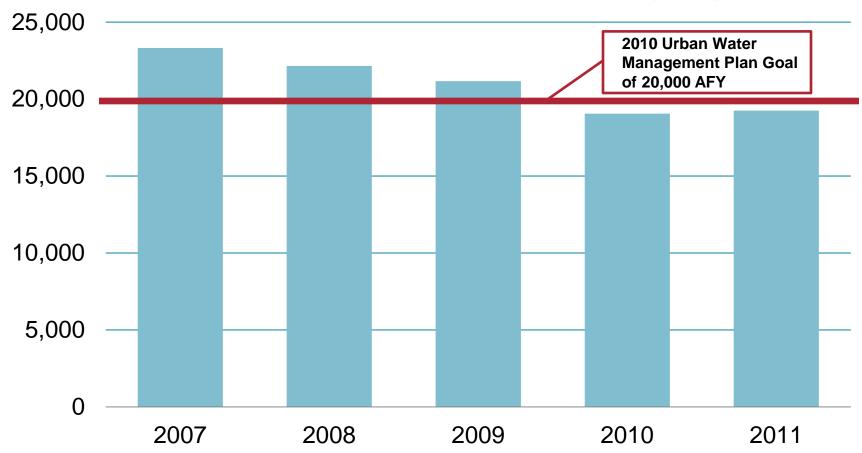


- Settlement Agreement between Indio and CVWD signed in July 2009
 - IWA Supplemental Water Supply Program implemented
 January 1, 2010 and effective July 1, 2012
 - First Amendment implementation by September 1, 2010 and effective March 1, 2011
 - Letter Extension provided based on Service Territory agreement to September, 2011
 - Second Amendment implementation by September 1,
 2012 and effective March 1, 2013
- Supplemental Water Supply program will include provisions for case-by-case in-lieu mitigation measures
- Mitigation Fee to be based on water use per acre for different development types



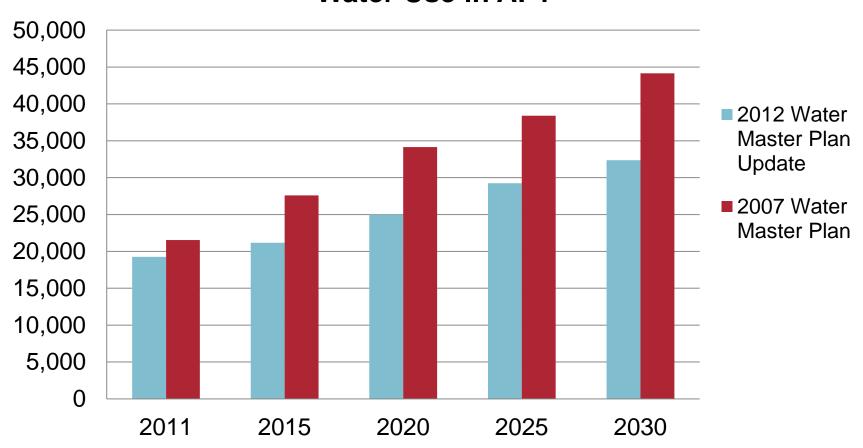
IWA Groundwater Supply

Historic Water Use in Acre Feet/Year (AFY)



Projected Water Demands

Water Use in AFY





Moderate Growth Assumption

Summary Of IWA Demand in AFY through 2030

Baseline	2015	2020	2025	2030
20,052	21,172	24,981	29,238	32,374

An Additional 12,374 AFY needed through 2030



Annual Water Consumption

IWA Development Type	Annual Consumption Factor (ac-ft/ac/yr)	Annual Consumption Factor with Return Flow (ac-ft/ac/yr)
Commercial/Institutional	1.01	.65
Hotel/Motel	2.19	1.42
Industrial	1.43	.93
Irrigation	2.37	1.54
Multi Family Residential	1.90	1.23
Single Family Residential	3.44	2.23
City Parks/Irrigation and Landscape Lighting Districts	2.09	1.36



Supplemental Water Supply Program

- Recycled Water
- Imported Water Purchase







Recycled Water Program – Indirect Potable Reuse through Injection



- Joint funding of Engineer's Report/Feasibility Study with VSD
- USBR Grant funding
- Strategic Financing Plan
- Phase 1 capacity assumed to be 5,500 AFY available for reuse
- Preliminary Engineering Estimate for Phase I Capital Cost equates to \$8,735 AF
- 22% of full cost allocated to new development = \$1,922 AF



Imported Water Purchase



- State Water Project Table A
- Delta Projects
- Central Valley Projects
- Colorado River Projects



State Water Project Table A

Agency	Cost per AF	Reliability Factor	Adjusted Cost per AF
CVWD	\$3,225	64%	\$5,289
Mojave Water Agency	\$5,250	64%	\$8,610



Estimated Price of Purchased Water

Purchase Option	Contract Amount (AF)	Annual cost per AF	Probability Factor	Weighted Cost, \$/AF
Deal 1	8,400	\$750	20%	\$150
Deal 2	5,000	\$550	10%	\$55
Deal 3	5,000	\$1,000	30%	\$300
Deal 4	4,000	\$400	40%	\$160

Weighted Average Cost, \$/AF = \$665



Supplemental Water Supply Program Fee Calculation

- Fee comprised of two components:
 - Estimated Recycled Water Program costs
 - Estimated Purchased Water costs
- Recycled Water Program costs
 - Phase 1 cost = \$8,736 AF
 - 22% of full cost allocated to new development =
 \$1,922 AF
- Purchased Water costs
 - Annuity formula to capture estimated cost for 5 year planning window
 - Using weighted average cost = \$3,513

FV = C*[(1+i)^n-1]/i
Where: C = cash flow per period
i = interest rate
n = number of payments

So: FV = \$665 * [(1+0.0275)^5-1]/0.0275 = \$3,513

• Total cost is \$1,922 + \$3,513 = \$5,435 AF



Sample Calculation for Single Family Residential Development

- Annual Consumption Factor = 2.23 ac ft/ac/yr
- Calculated Cost AF = \$5,435
- Supplemental Water Supply Fee (SWSF)
 2.23 x \$5,435 = \$12,120 per acre
- Assume density of 5 dwelling units per acre, cost per house = \$2,424

Supplemental Water Supply Fee (SWSF) by Development Type

IWA Development Type	Annual Consumption Factor with Return Flows (ac-ft/ac/yr)	SWSF (\$/acre)
Commercial/Institutional	.65	\$3,533
Hotel/Motel	1.42	\$7,718
Industrial	.93	\$5,055
Irrigation	1.54	\$8,370
Multi Family Residential	1.23	\$6,685
Single Family Residential	2.23	\$12,120
City Parks/Irrigation and Landscape Lighting Districts	1.36	\$7,392

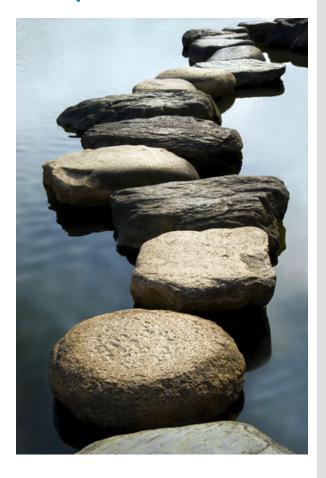


CVWD/IWA Comparison

IWA Development Type	IWA fee	CVWD fee
Commercial/Institutional	\$3,533	\$2,800-\$20,574
Hotel/Motel	\$7,718	\$18,035
Industrial	\$5,055	\$2,800-\$20,574
Irrigation	Based on landscape	Based on landscape
	architect calculated usage	architect calculated usage
Multi Family Residential	\$6,685	\$11,742
Single Family Residential	\$12,120	\$12,218
City Parks/Irrigation and	\$7,392	\$13,011
Landscape Lighting		
Districts		



Implementation



- Program effective March 1, 2013
- Any Project that has pulled a building permit and paid water impact fees prior to March 1, 2013 with be exempt
- Development Agreements with defined water fee requirements may be exempt – reviewed on a case by case basis
- Developer may apply for in lieu mitigation measures that may apply as credit against the Supplemental Water Supply Fee (SWSF)
- SWSF due at Building Permit issuance after March 1, 2013



Questions

