This presentation premiered at WaterSmart Innovations

watersmartinnovations.com







by David Silva CWM, QWEL **& Patrick Crais** CWM, CLIA, CLWM, CIC, CID, C27 Bernardo Greens to Bernardo Browns: A New Normal Case Study

The New Normal for California Landscapes

Movement in California to transform urban landscapes to:

- Use less water
- Reduce Chemicals
- Utilize compost and mulch
- And more climate appropriate plants

Less This



More This



This approach will yield results like:

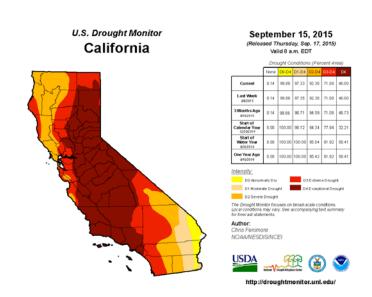
- Decrease in water consumption
- Increase in landscape and overall environmental health
- Achieve Biodiversity
- Change end-user behavior and expectations of an urban landscape



Many things have brought this to the forefront, like:

- Healthier lifestyles
- Awareness of possible dangers to kids and pets
- Living more "green"

And....the Great and All Powerful California Drought of 2013-Present



Background: Bernardo Greens HOA Common Area

- Upscale HOA, near golf course in Ranch Bernardo, CA (San Diego Area)
- Common area surrounded by approximately 40,000 square feet of turf
- Uses about 2,706 hcf in the summer (June-Sept. 2009-2014 average)
- Has been monitored and maintained by Heritage Landscape Services of La Mesa, CA
- Enrolled in CLCA Water Management Budgeting Software for 6 years



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What did Bernardo Greens HOA want?

- Water Savings
- To better utilize the approx. 1 Acre around their common area
- Create more curb appeal
- Create more paths for walking and interaction with residents
- Incorporate surrounding wildlife



Why did Bernardo Greens HOA want to make a change?

- Being more sustainable was key
- Healthier more interactive area for people, children and pets
- San Diego is a "hotbed" for a more "watersmart lifestyle"
- Future rising water costs
- Good rebates available
- Dollar savings was a bonus!

A Digitial Magazine

Inspirational plant & garden photos

Helpful videos Plant finders

Interactive maps

Animated graphics

Home & garden calculators

Design tools

Rebates & Incentives



San Diego County Water Authority eGuide to a WaterSmart Lifestyle



watersmartsd.org

Being WaterSmart means recognizing that San Diego County is one of only a handful of places in the country where you can enjoy indoor-outdoor living year-round. Having a WaterSmart home and garden allows you and future generations to enjoy the benefits of our region to the fullest all the while spending less on water and more on life.

The "eGuide to a WaterSmart Lifestyle" is your go-to resource for living water-efficiently in San Diego County.

Learn About:

- . Smart buys for plumbing fixtures and appliances
- Finding and fixing leaks
- Landscape design
- · Water-efficient plants
- Outdoor rooms
- · Gardening groups

- Graywater
- Stormwater
- · Healthy soil
- · Efficient irrigation
- Landscape maintenance
- Drought survival for gardens and much more





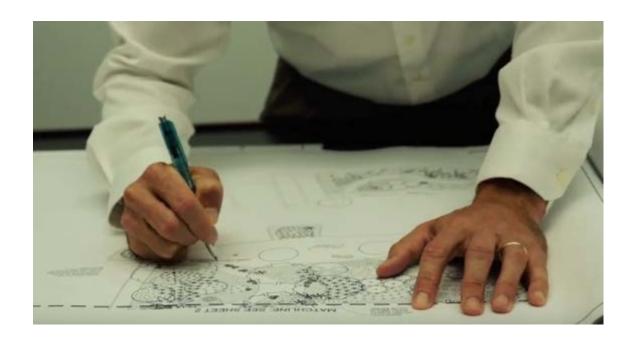




Go to watersmartsd.org/residential-guide today!

Phase 1- Pre-Planning: Devil is in the Details

- Lots of meetings with landscape committee and HOA board
- Rebate research and paperwork by the contractor
- Hiring a landscape architect to incorporate ideas in to the plan
- Approval by the HOA board and City of San Diego inspectors



Phase 1- Scope & Proposal

- Lower water use plant pallet (more established trees, shrubs, accent plants, groundcover)
- Incorporate the existing trees
- Installing drip irrigation and MP rotators
- Installing boulders, decomposed granite walkways, river cobble for accent
- Removing old turf and disposal (cost was approx. \$35,000)
- Adding a few square feet of turf for contrast
- Installing benches, stone water feature
- Create a certified wildlife habitat

Total cost: Approximately \$175,000 for the project to BG HOA



Phase 2- Scope and Proposal (cont.)

Total cost: Approximately \$175,000 for the project

Turf removal rebates available from:

So Cal Watersmart (MWD) \$2.00 per square foot

40,000 sq. ft. x 2= \$80,000

City of San Diego \$2.00 per square foot

30,000 sq. ft. (rebate maximum) x 2= \$60,000

\$175,000 for the project

-\$140,000 in rebates

= Net cost of \$35,000 to BG HOA (or equal to the price of the turf disposal)

Phase 2- Installation



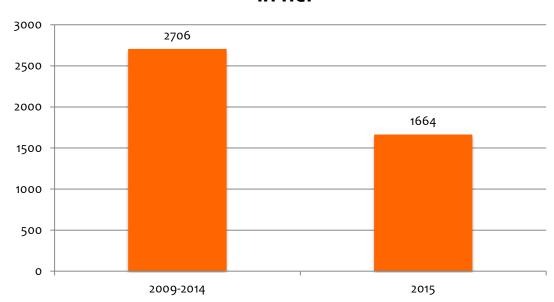
Phase 3 Post Installation - Analyzing the Data ROI

Summer months (June-Sept 2009-2014) average water usage was: 2,706 hcf

Summer months (June-Sept. 2015) average water usage was: 1,664 hcf

Usage savings of 39% in year one (during establishment period)

Bernardo Greens Water Usage in hcf



Phase 3- Analyzing the Data ROI (cont.)

If average water cost about \$5.15 per hcf at Bernardo Greens Bernardo Greens uses about 2,706 hcf over the Summer months 5.15 x 2,706= \$13,936 is what Bernardo Greens pays each summer

If their average is now 1,664 at \$5.15 per hcf= \$8,570 per summer

\$13,963-\$8,570= summer savings of \$5,123

This means their ROI will be reached in about 5-7 years!*
*Given an annual savings of \$7,000 per year

With no rebates, at about \$7,000 in savings per year, ROI on a \$175,000 investment would take almost 25 years to be achieved

Before & After Photos





Before and After Photos





Before and After Photos





More After Photos





Conclusion

- Water restrictions will only get tougher post-California drought
- People will begin to embrace a more sustainable landscape if they are motivated
- A beautiful landscape can be achieved, keeping in mind a client's budget
- ROIs for large commercial projects become reasonable only when turf rebates cover a large portion of the cost

You can find a full video story of this conversion on You Tube: https://www.youtube.com/watch?v=ojiOSVYK9-s

Questions?

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