# This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



#### education

### consulting design community



October 2011

**EPA Watersmart Innovations 2011** 

A COMMUNITY APPROACH TO LANDSCAPE BEHAVIORAL CHANGE

### We Want To Affect Profound Behavioral Change



#### So Do Our Partners Like Surfrider Foundation



A grassroots environmental organization dedicated to the protection and enjoyment of oceans, waves and beaches through a powerful activist network.

### You Probably Know About Surfrider

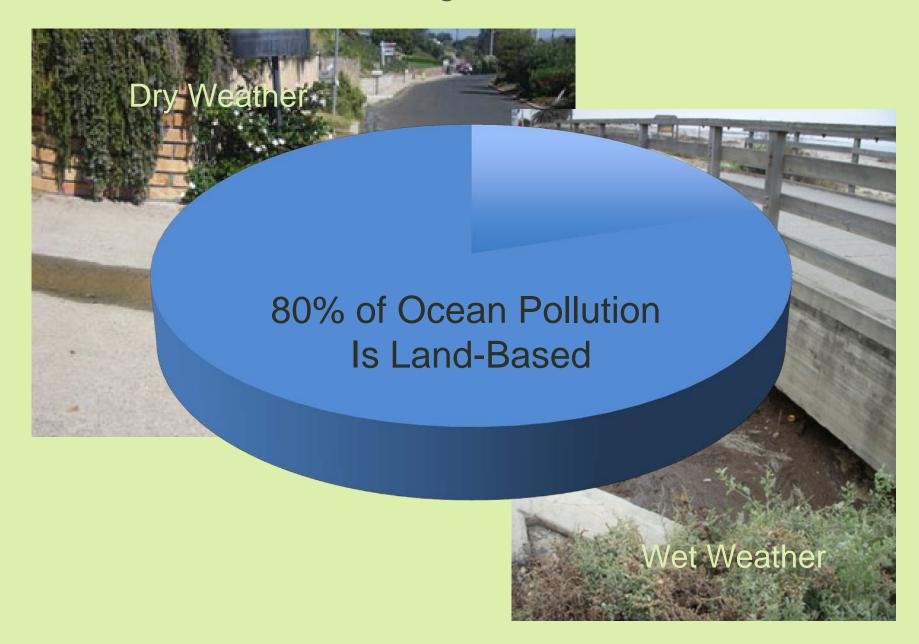


From Beach Cleanups

Cool Campaigns



### And Activism Surrounding Ocean & Beach Health



### Something More Than Cleanup and Testing Is Needed





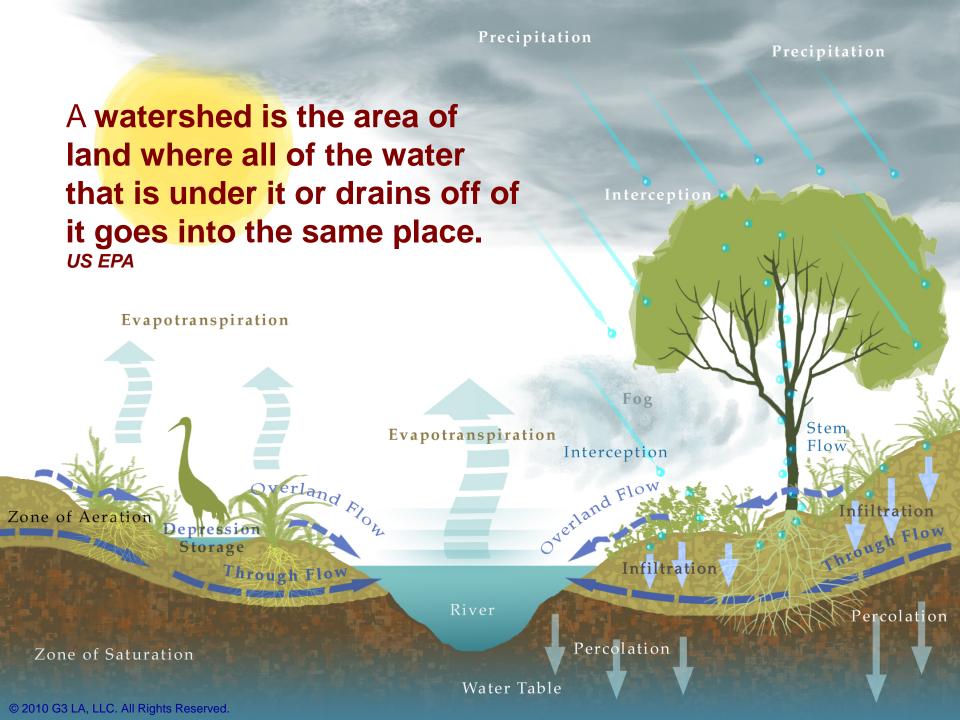
Image courtesy of Heal the Bay

### We Want You To Be Confident, Engaged, Empowered!



### So We Developed This Program





### Even Though You're Here Today





### Start Thinking of Your Property As A Mini-Watershed

### Conservation

### **Permeability**

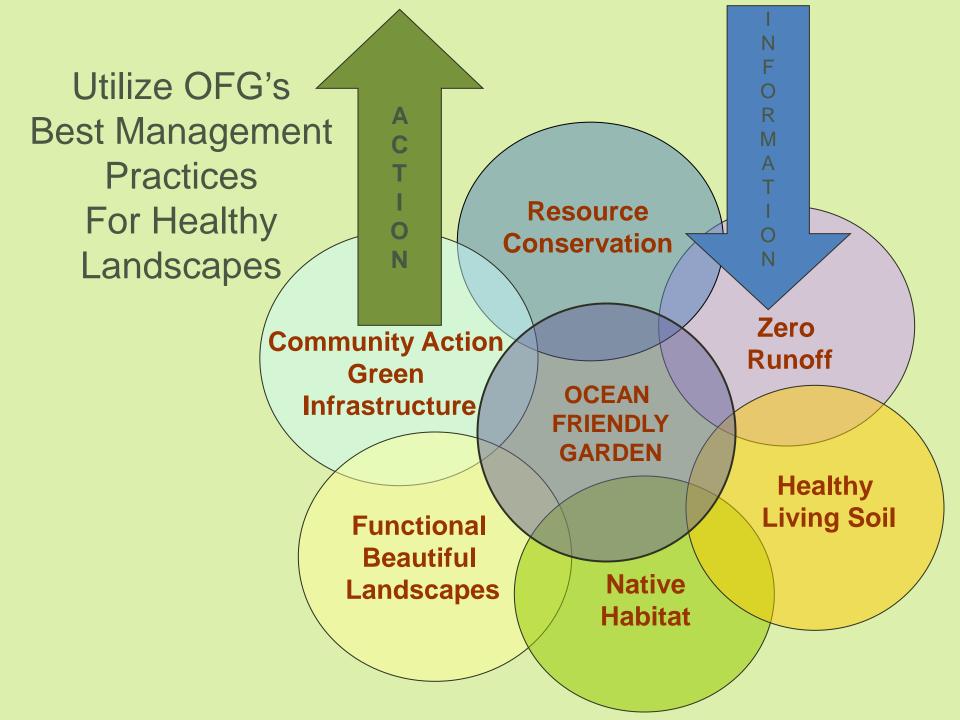
### Retention

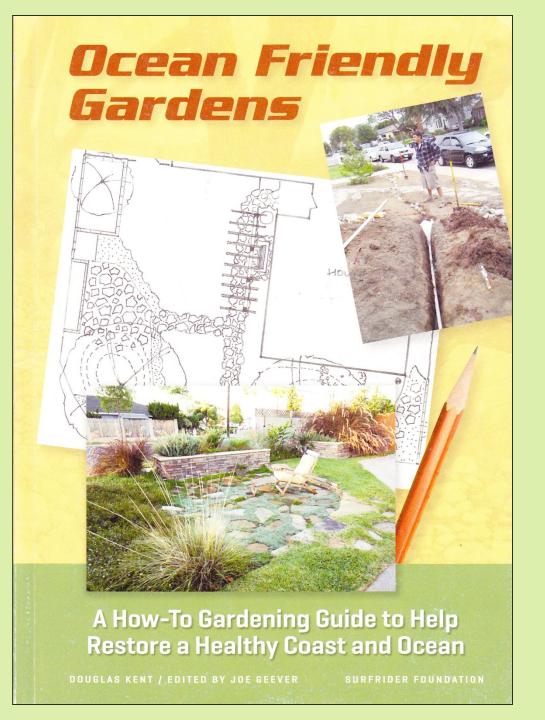
Apply OFG Principles of C.P.R. To Revive

Waterways

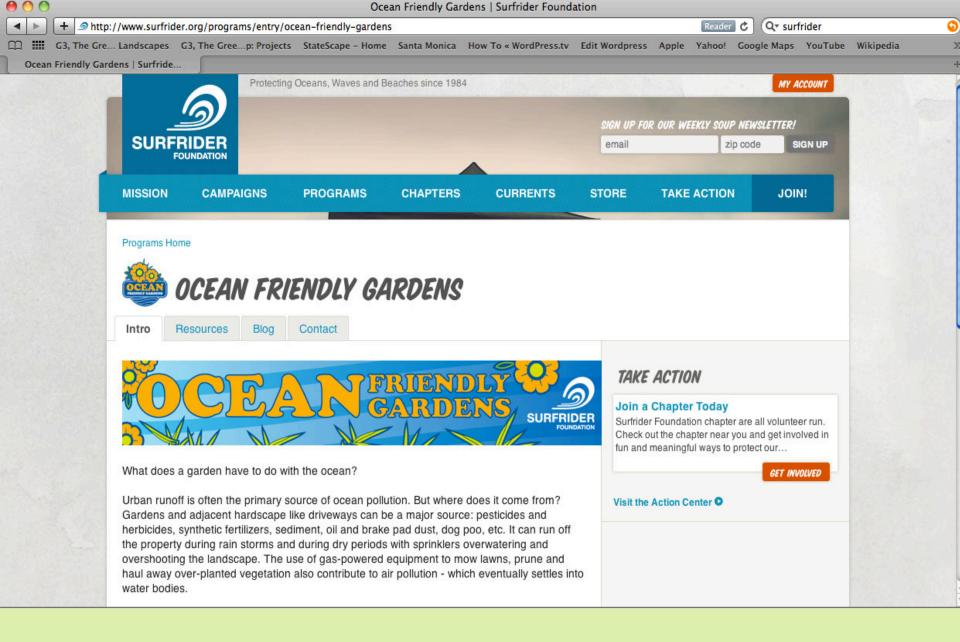






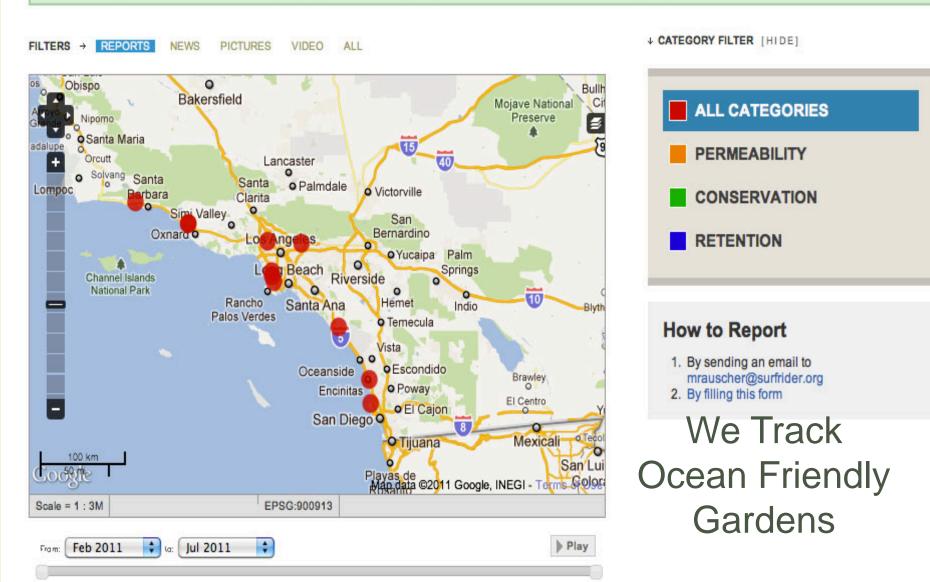


## And Implement The Program



### www.oceanfriendlygardens.org

An Ocean Friendly Garden (OFG) is a garden that applies CPR – Conservation, Permeability, and Retention – to revive the health of our watersheds and oceans. Please tell us about your yard. Click "Instructions" button to start.



And Give People
Yard Signs
When They Apply
C.P.R.



### PERMEABILITY of soil and surfaces lets water slow down and sink

### RETENTION of rainwater and prevention of wet weather runoff



YOUR LOGO HERE



WWW.OCEANFRIENDLYGARDENS.ORG

# We Conduct OFG Classes By Partnering With Water Agencies (Conservation) & Cities (Retention)





### And Build Awareness About Runoff





While The Internet
And Social Media
Play Important Roles
In Getting Out
The Word...



### Volunteer Outreach Is The Backbone Of OFG



### That Means Taking The Message To Where People Gather

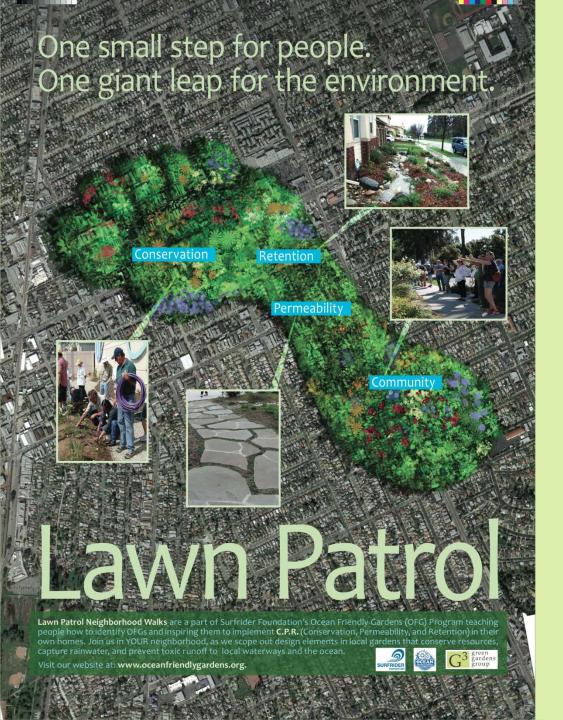


**Grocery Stores** 

Farmers' Markets

### Creating a Person-to-Person Network





To Raise Community
Awareness
We Developed
Lawn Patrol
Neighborhood Walks

### Inviting Everyone To Scope Out OFGs In Their Hood



### Lawn Patrols Are Educational, Social And FUN!







#### And Educate About Gardens That Are Not

OCEAN ERIENDLY GARDENS PROGRAM FROM THE SURFRIDER FOUNDATION

# LAWN PATROL STOPPED BY, AND WE LOVE YOUR GARDEN!



We toured your neighborhood, and noticed your garden has many features of an Ocean Friendly Garden which utilizes CPR:

- Conservation Great LEED GOLD
- Permeability House!
- \_\_ Retention

Comments:

DATE:

TIME:

Rainchain is connected to stormdrain. Why not redirect it into the landscape and reduce runoff? A Hands-on Workshop will show you HOW and build your confidence!

### We Added Peer-to-Peer Neighborhood Based Learning





26 x 26 = 8x15/15 | 15 x 6 | 15 x 6 | 15 x 6 | 15 x 6 | 17 x 18 | 30 of | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 192 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193 | 193

Evaluate Your Site





Water Use Calculations

24 x 748=18,000/mo.

1 x 748 gal.

1" = .625 gal.

1" on 1000 = 625 gal.

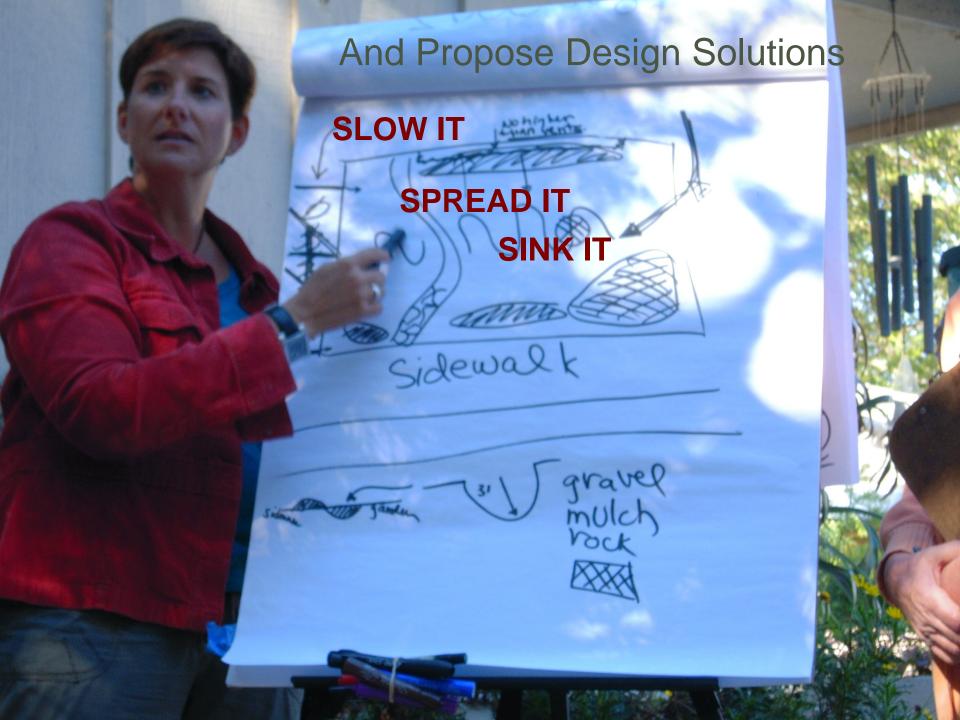
1450sf. 100f 1/2 captured =

7255f = 450 gal/"rain

1/x450 = 4,950 gao.

Runoff Calculations





#### Then Homeowners Invite Family & Friends To Garden Raising



## Surfrider Brings Media And Volunteers: GAP Workday







#### And The Next Lawn Patrol Starts With That OFG









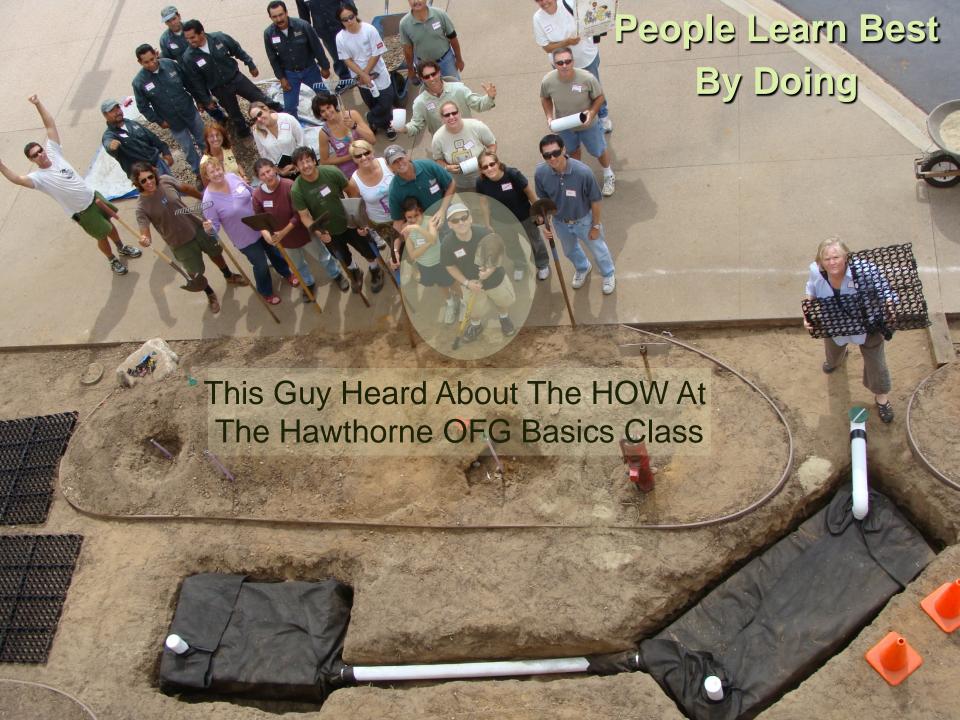
# Leading Hands On Workshops (HOWs)







# Water Agency Agrees To Spread The Word Reduced Water Use by 80% Zero Dry-Weather Runoff Greatly Reduced Wet-Weather Runoff







He Learns Many Skills
Including Sheet Mulching
To Remove Turf
Without Chemicals

And Sees That
The Kids
Are Learning Too













Together We Found Some Funding (Conservation & Retention)

West Basin MWD, Metropolitan
Water District of Southern California,
Surfrider, G3, Local Businesses,
Teen Friends of the Library



To Conduct A
Site Evaluation HOW



This Guy Learns To Build His Own OFG



Maintenance & Stewardship HOW



Including These Homeowners

The Garden Was
Built With Paid
Professionals And
Volunteers







Turns Out They Want An OFG At Their Home Too







# **Building Another OFG**















WATER: DO MORE WITH LESS









No ONE Organization or Agency Can Do It ALONE





### OFG Requires An Integrated Approach



- ♦ Program Content Includes Conservation & Retention
- ♦ Professional Leadership & Involvement
- ♦ Multiple Funding Partners
  - ♦ Public Demonstration Gardens

♦ Multiple NGOs

### With Multiple Stakeholders Working Together



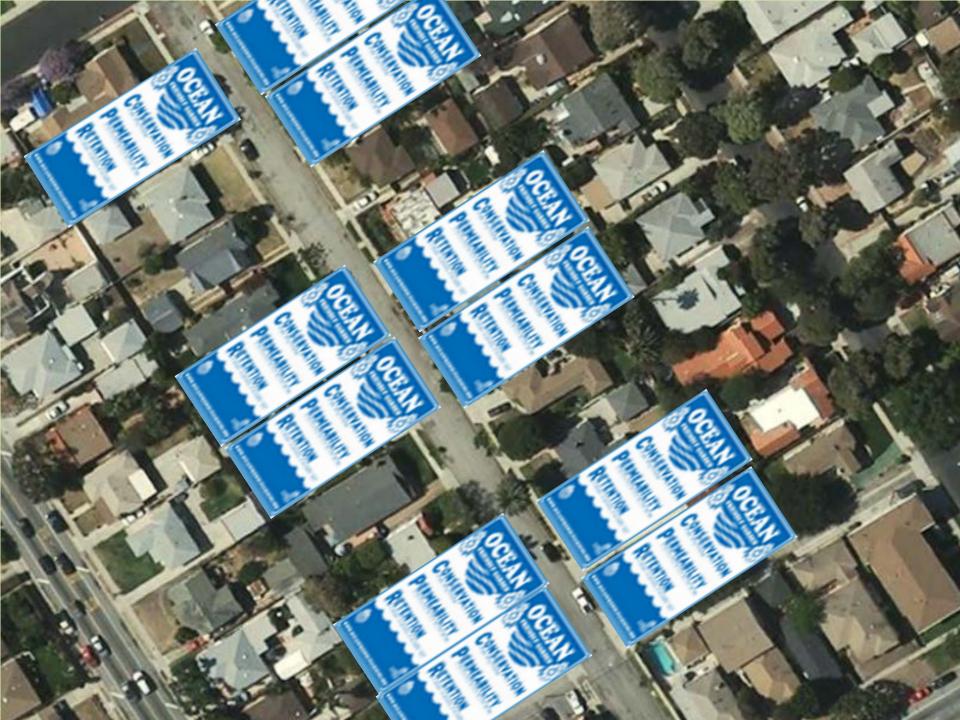
### Recipients Of Volunteer Hours Must PAY IT FORWARD!



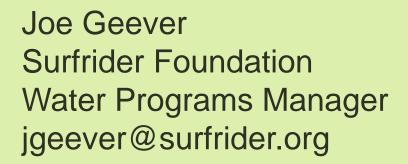
G3 Associates Also Must Put In Volunteer Hours









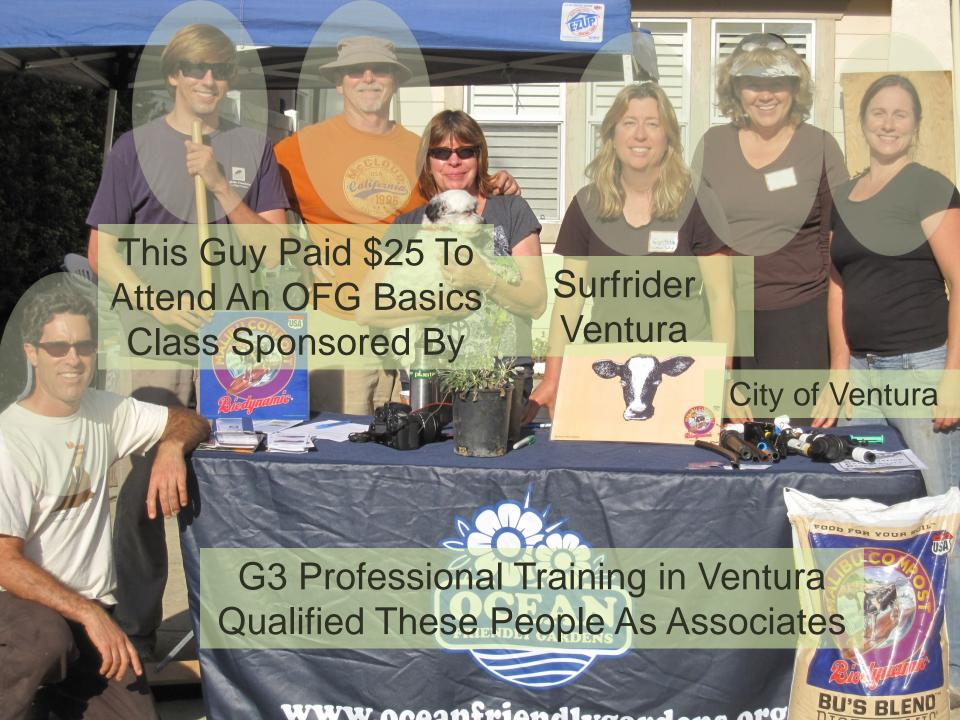




Paul Herzog
Surfrider Foundation
Ocean Friendly Gardens Program
National Coordinator
pherzog@surfrider.org



Pamela Berstler
Managing Member
G3OWL5@gmail.com









#### With A Little Professional Coaching He Developed A Design



## Surfrider Brought The Muscle







# But The Proof of the Sponge Is In The Rain It Holds December 2010 – 4" or 1,600 gallons



# The Proof of the Sponge Is In The Rain It Holds February 2011 – 3.5" or 1,450 gallons



Native Plants Love The Sponge Garden April 2011 – Needs 0 gallons irrigation





