2nd Steelhead Summit

October 27 & 28, 2016 in San Luis Obispo, CA

Session Overview

- Sponsors:
  - California Trout
  - City of San Luis Obispo
  - Sustainable Conservation
  - California Conservation Corps
  - Cachuma Operation and Maintenance Board
  - Wildnote

The year's Summit agenda highlighted adaptive genomic variation, steelhead recovery planning, coastal monitoring status reports, fish passage planning, and water conservation efforts.

The full-day symposium was followed by concurrent field tours to restoration sites that showcase fish passage improvements and water conservation projects.

Presentations

Instream Flow Needs for Improving for Steelhead Recovery Part 2

(Slide 4) *Building a Community Water Conservation Program*
Regina Hirsch, Sierra Watershed Progressive

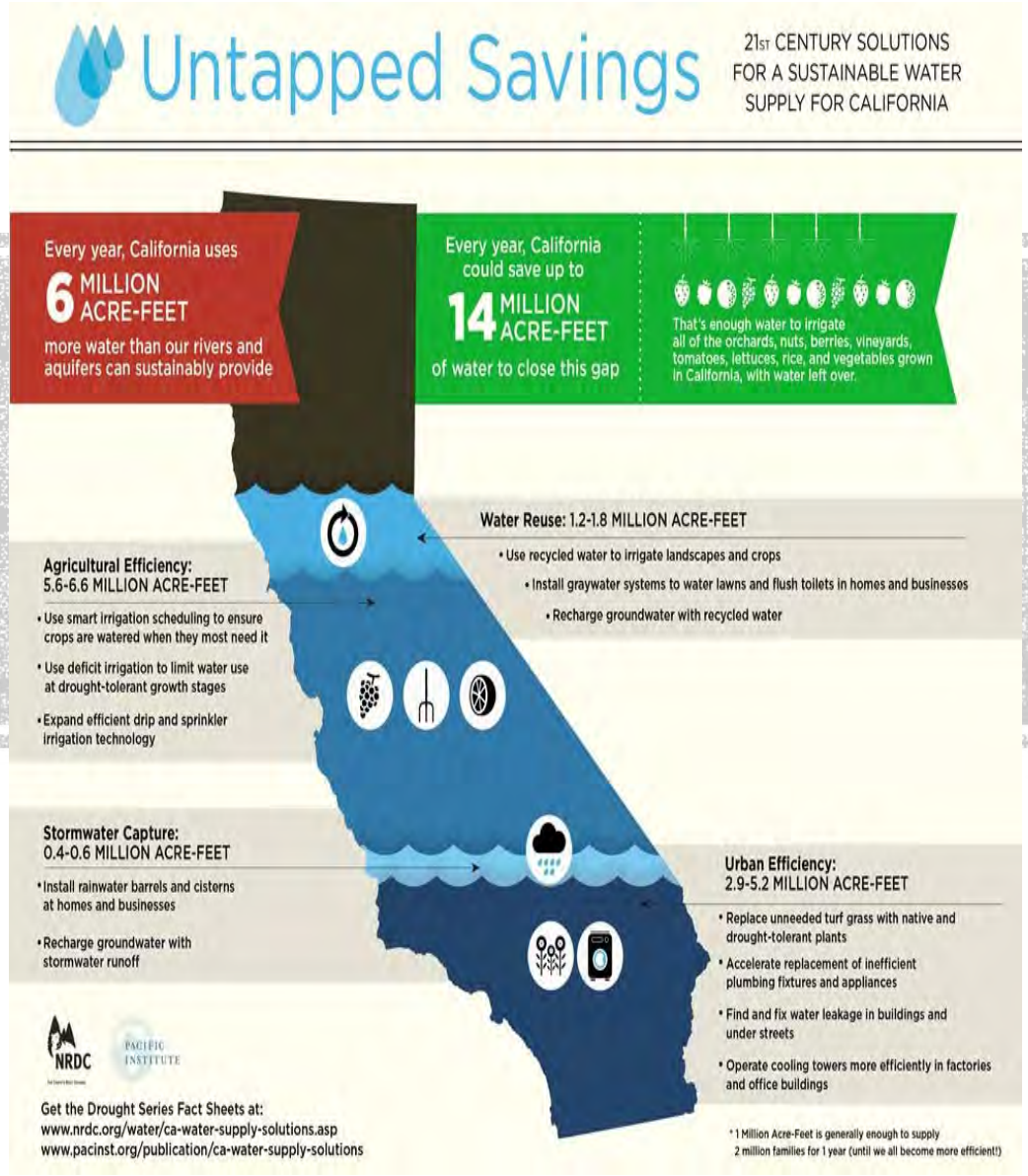
Building a Community Water Conservation Program

Oct 2016
Steelhead Summit

Regina Hirsch
Sierra Watershed Progressive

I live here

But I know this


Untapped Savings
21ST CENTURY SOLUTIONS FOR A SUSTAINABLE WATER SUPPLY FOR CALIFORNIA
Every year, California uses 6 MILLION ACRE-FEET more water than our rivers and aquifers can sustainably provide
Every year, California could save up to 14 MILLION ACRE-FEET of water to close this gap
That's enough water to irrigate all of the orchards, nuts, berries, vineyards, tomatoes, lettuces, rice, and vegetables grown in California, with water left over.
Water Reuse: 1.2-1.8 MILLION ACRE-FEET
• Use recycled water to irrigate landscapes and crops
• Install graywater systems to water lawns and flush toilets in homes and businesses
• Recharge groundwater with recycled water
Agricultural Efficiency: 5.6-6.6 MILLION ACRE-FEET
• Use smart irrigation scheduling to ensure crops are watered when they most need it
• Use deficit irrigation to limit water use at drought-tolerant growth stages
• Expand efficient drip and sprinkler irrigation technology
Stormwater Capture: 0.4-0.6 MILLION ACRE-FEET
• Install rainwater barrels and cisterns at homes and businesses
• Recharge groundwater with stormwater runoff
Urban Efficiency: 2.9-5.2 MILLION ACRE-FEET
• Replace unneeded turf grass with native and drought-tolerant plants
• Accelerate replacement of inefficient plumbing fixtures and appliances
• Find and fix water leakage in buildings and under streets
• Operate cooling towers more efficiently in factories and office buildings
NRDC
PACIFIC INSTITUTE
Get the Drought Series Fact Sheets at:
www.nrdc.org/water/ca-water-supply-solutions.asp
www.pacinst.org/publication/ca-water-supply-solutions
* 1 Million Acre-Feet is generally enough to supply 2 million families for 1 year (until we all become more efficient!)

Water Conservation Projects

What is meaningful?

Water Conservation Projects

What is meaningful?

Potable water savings

Water Conservation Projects

What is meaningful?

Potable water savings

More water for instream flow

groundwater protection

Water Conservation Projects

What is meaningful?

Potable water savings

More water for instream flow

catastrophic resiliency

groundwater protection

Water Conservation Projects

reduced carbon footprint

What is meaningful?

Potable water savings

More water for instream flow

more connected user

economic incentives

catastrophic resiliency

groundwater protection

habitat restoration

Water Conservation Projects

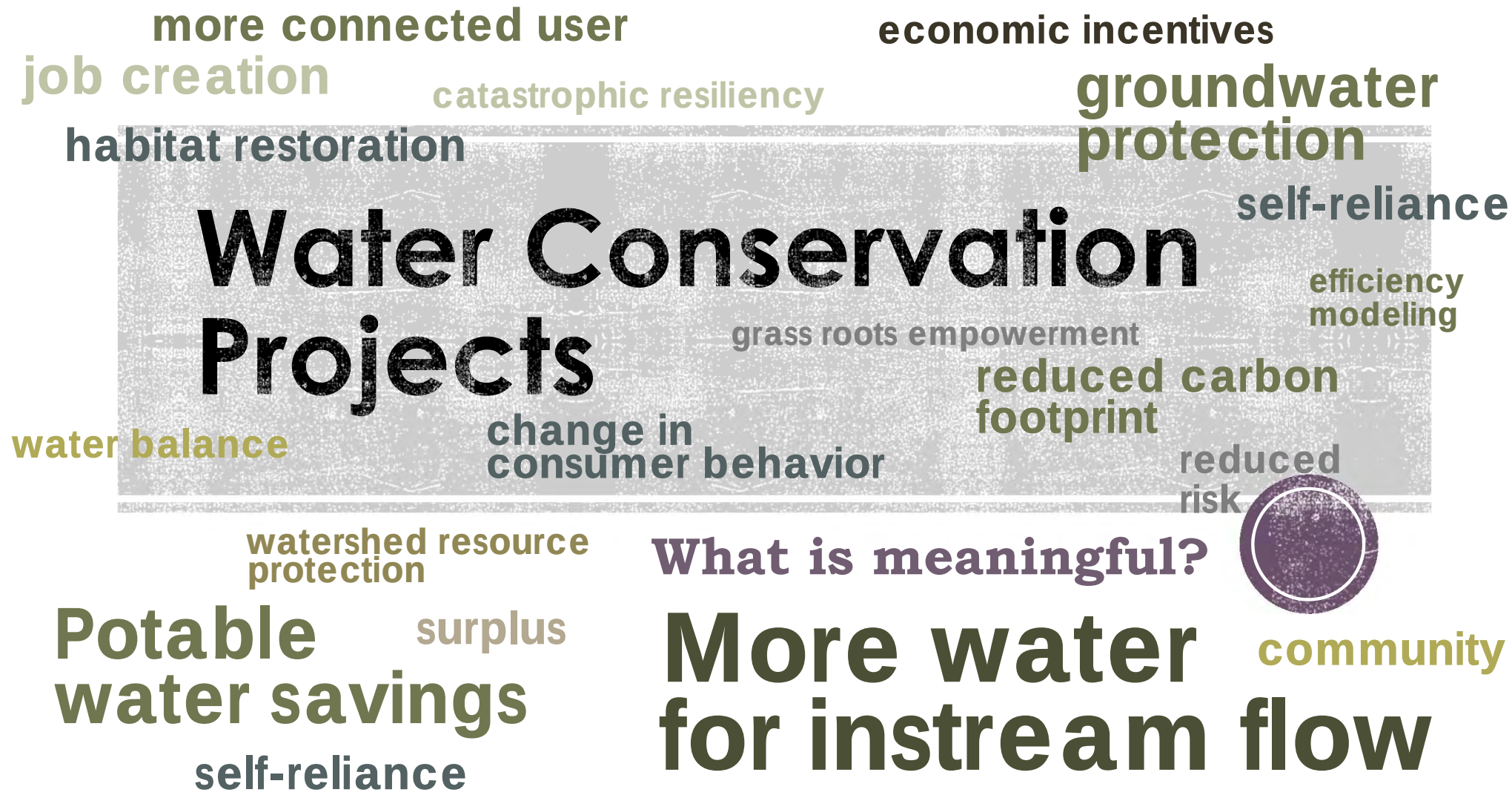
reduced carbon footprint

watershed resource protection

What is meaningful?

Potable water savings

More water for instream flow


more connected user
economic incentives
job creation
catastrophic resiliency
groundwater protection
habitat restoration
self-reliance
Water Conservation Projects
efficiency modeling
grass roots empowerment
reduced carbon footprint
water balance
change in consumer behavior
reduced risk
watershed resource protection
What is meaningful?
Potable water savings
surplus
More water for instream flow
community
self-reliance

meaningful flow:

meaningful flow:

how to change upland effects (one county at a time)

"People are always looking for the single magic bullet that will totally change everything. There is no single magic bullet."

-Temple Grandin

steps to success

to meaningful conservation

STEP 1: identify

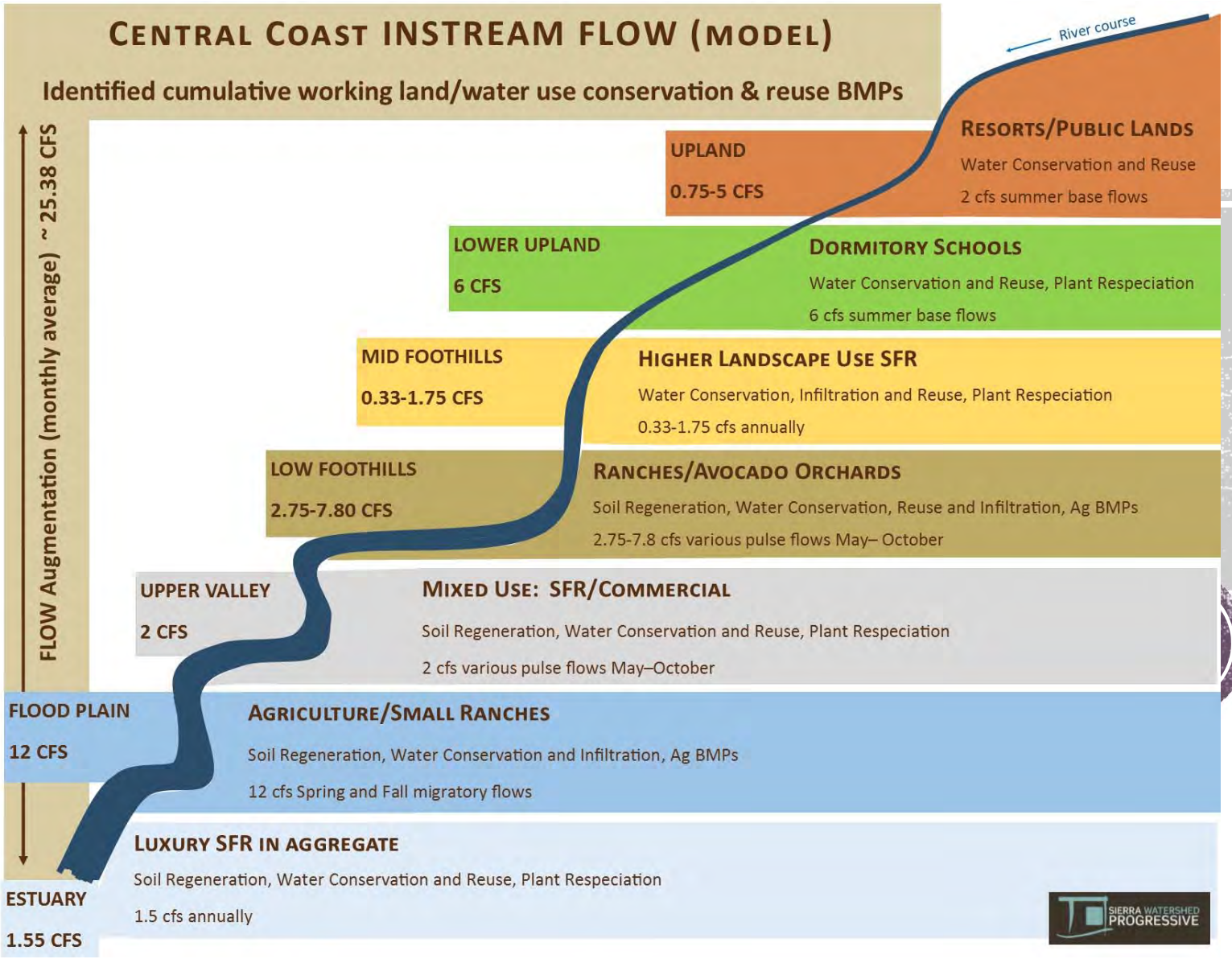
where, who, why, what?

Watershed characteristics

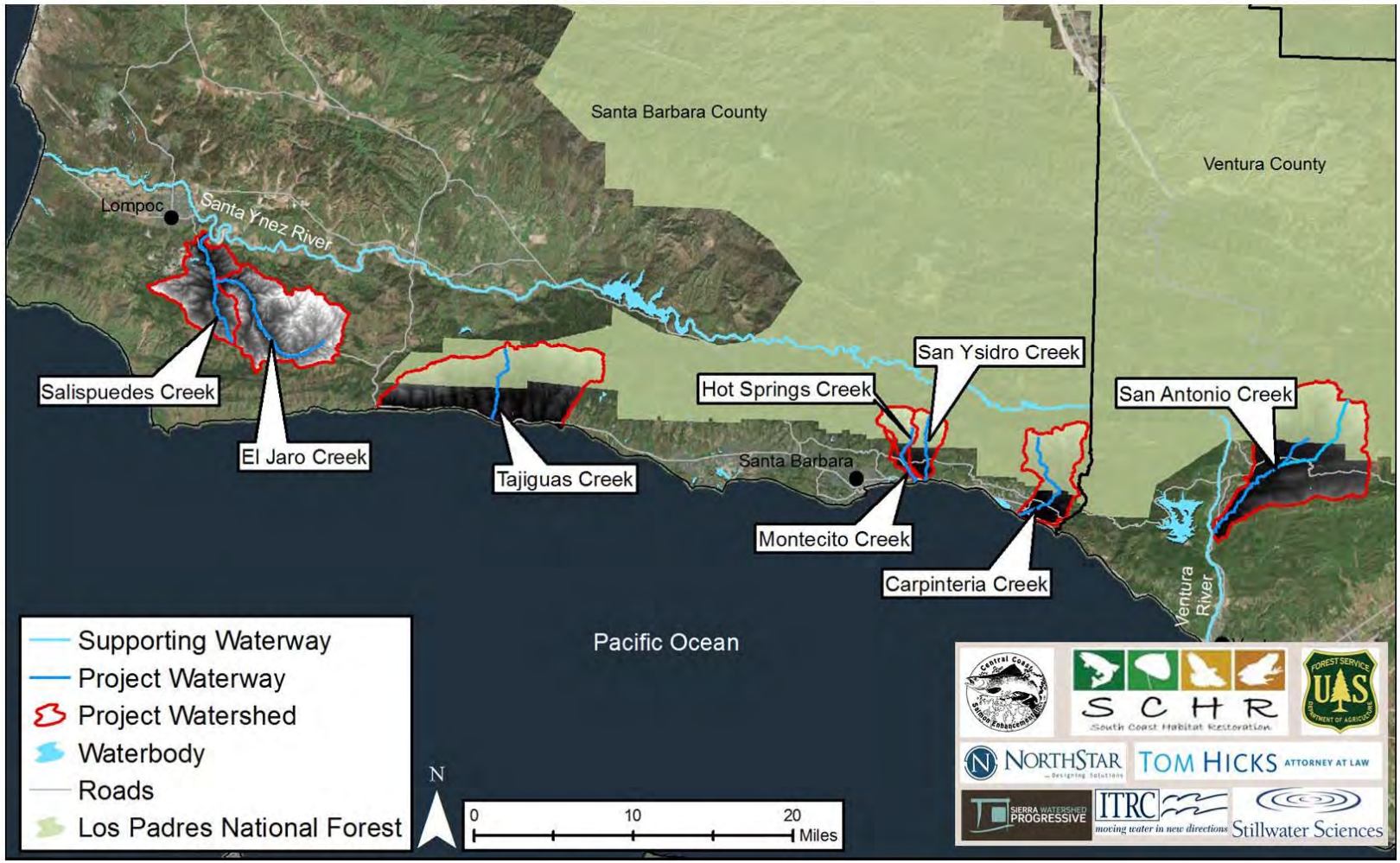
Decision maker

Your objective, Their objective

Appropriate tools


CENTRAL COAST INSTREAM FLOW (MODEL)
Identified cumulative working land/water use conservation & reuse BMPs
River course
FLOW Augmentation (monthly average) ~ 25.38 CFS
UPLAND
0.75-5 CFS
RESORTS/PUBLIC LANDS
Water Conservation and Reuse
2 cfs summer base flows
LOWER UPLAND
6 CFS
DORMITORY SCHOOLS
Water Conservation and Reuse, Plant Respeciation
6 cfs summer base flows
MID FOOTHILLS
0.33-1.75 CFS
HIGHER LANDSCAPE USE SFR
Water Conservation, Infiltration and Reuse, Plant Respeciation
0.33-1.75 cfs annually
LOW FOOTHILLS
2.75-7.80 CFS
RANCHES/AVOCADO ORCHARDS
Soil Regeneration, Water Conservation, Reuse and Infiltration, Ag BMPs
2.75-7.8 cfs various pulse flows May– October
UPPER VALLEY
2 CFS
MIXED USE: SFR/COMMERCIAL
Soil Regeneration, Water Conservation and Reuse, Plant Respeciation
2 cfs various pulse flows May–October
FLOOD PLAIN
12 CFS
AGRICULTURE/SMALL RANCHES
Soil Regeneration, Water Conservation and Infiltration, Ag BMPs
12 cfs Spring and Fall migratory flows
LUXURY SFR IN AGGREGATE
Soil Regeneration, Water Conservation and Reuse, Plant Respeciation
1.5 cfs annually
ESTUARY
1.55 CFS
SIERRA WATERSHED PROGRESSIVE

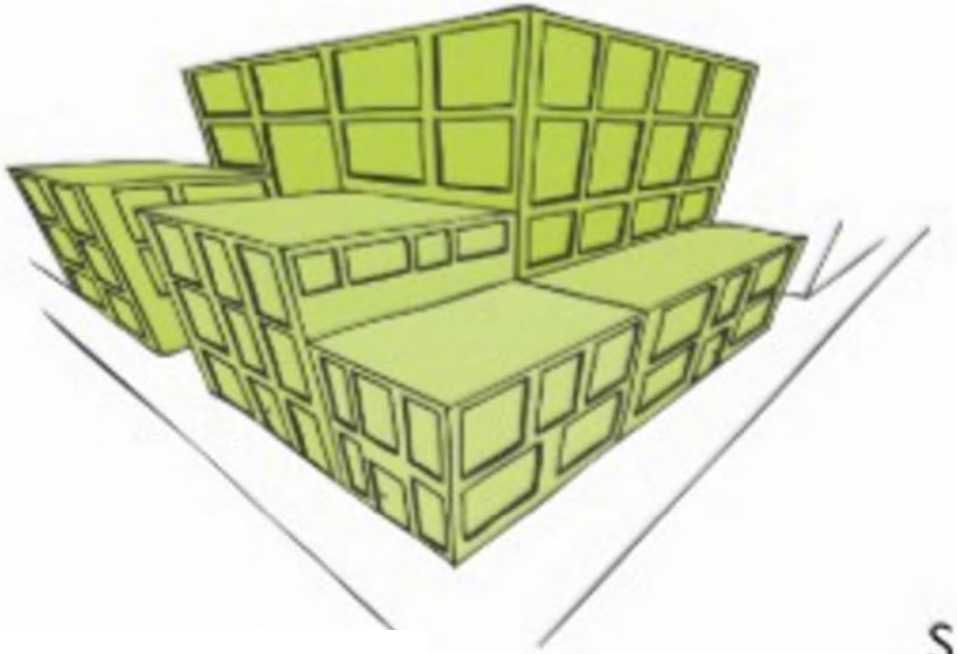
PLANNING AND FEASIBILITY STUDY FOR INTEGRATED WATER CONSERVATION, REUSE, AND TRANSACTIONAL STRATEGIES TO ENHANCE STREAMFLOWS IN SANTA BARBARA AND VENTURA COUNTIES



STEP 2: the interview

only connect

“objectives over tea will outlast you and me”

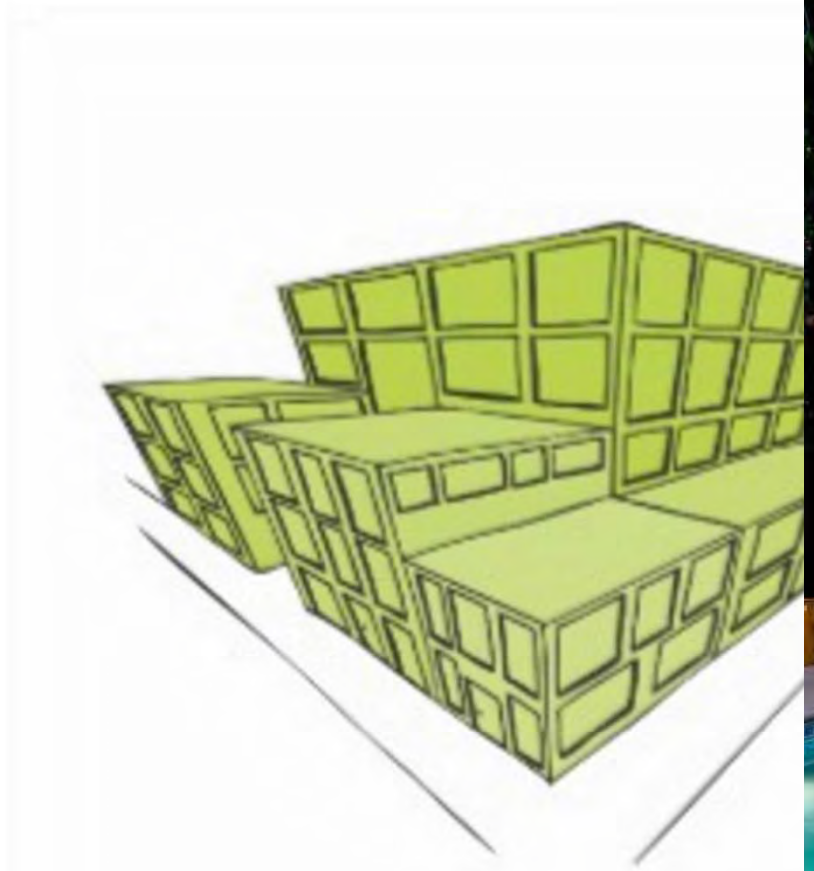


YOUR

Company
County
Neighborhood
HERE

(4586) 59531
your@email.com
338 Sample Str.
Sample Town, CA 42086

Green Building Department




Evergreen Lodge
YOSEMITE
EST. 192

YOSEMITE
RUSH CREEK
LODGE

6.1 mgy reuse

YOSEMITE
RUSH CREEK
LODGE

Evergreen Lodge
YOSEMITE
EST. 192

STEP 3: identify

stengthen the weak link first

everyone wants their problems heard

PROPOSED

Project Catalog

OUSD Stormwater LID Project

1)

1)

PRELIMINARY PROJECT RANKING

OUSD Stormwater LID Project

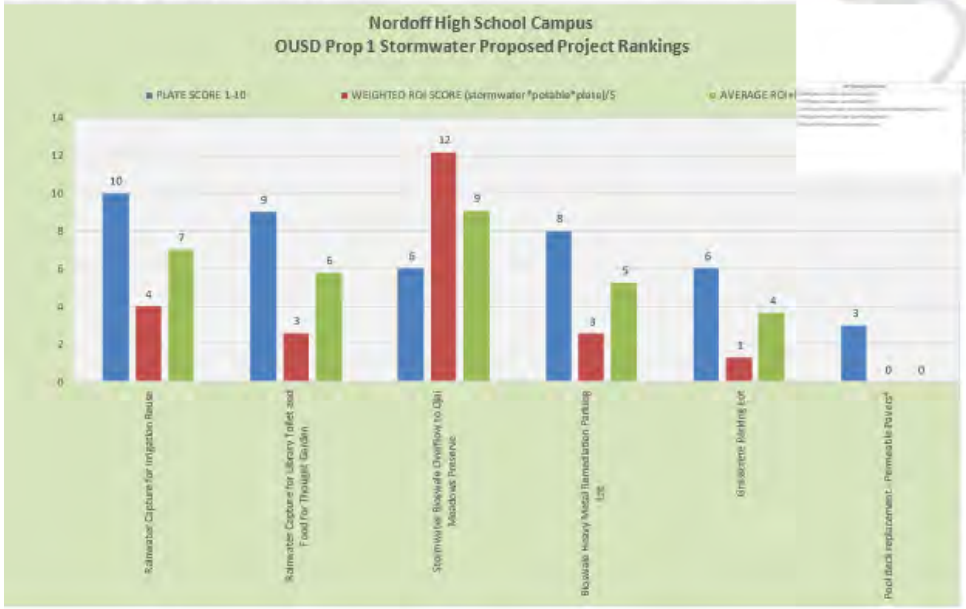
1) Use this table to see valued benefits to OUSD, as well as ranking for SWRGP Prop 1 Grant ask. Note: water savings, stormwater calculations are draft/preliminary pending more data.
2) Note that ROI is based on preliminary construction/planning budgets, within 20% error.
3) Construction time frame for grant is 4 years, including planning.

PROJECT	Project Area	Infiltration/Groundwater Recharge	Potable Water Savings	Water Quality/TMDL	Elevates Flooding Impacts	Educational/Curriculum Building	Rainwater to Food Irrigation	Decreases Impervious Surfaces	Ambient Temperature Mitigation (Shading)	Reduced Energy Consumption (Classroom	Habitat Generation	PLATE SCORE 1-10	WEIGHTED ROI SCORE (stormwater*potable*plate)/$	WEIGHTED ROI SCORE (stormwater*potable*plate)/$		Stormwater Reuse g/y	Potable Water Cons g/y
Asphalt Removal/Naturescapes Playground	TOPA TOPA	x	x	x	x	x		x	x	x	x	9	4	6		695,128	1
Permeable Pavement Parking Lot	TOPA TOPA	x		x	x	x		x	x			6	1	3		222,654	1
Bioswale Center School	TOPA TOPA	x	x	x	x	x			x	x	x	8	0	4			
Bioswale Upper Playground	TOPA TOPA	x	x	x	x	x			x	x	x	8	1	5		47,660	1
Rainwater Capture for Food for Thought Garden Project	TOPA TOPA	x	x	x	x	x	x		x	x	x	9	4	7		113,000	113,000
Bioswale Front School	TOPA TOPA	x	x	x	x	x			x	x	x	8	1	4		141,467	3,420
Bioswale Heavy Metal Remediation Parking Lot	TOPA TOPA	x		x	x	x		x	x		x	7	5	6		470,988	11,400
Bioswale Corridor Project	TOPA TOPA	x	x	x	x	x		x	x	x	x	8	3	6		65,041	7,600
Asphalt Removal Playground	MATILIJA JR HIGH	x		x	x	x		x	x	x	x	8	1	4		172,696	1
Permeable Pavement Parking Lot	MATILIJA JR HIGH	x		x	x	x	x	x	x			7	2	4		722,182	1
Rainwater Capture for Food for Thought Garden Project	MATILIJA JR HIGH	x	x	x	x	x	x	x	x	x	x	10	7	9		228,000	152,000
Rainwater Capture for Ocean Friendly Gardens Project, Irrigation and Toilet Reuse	MATILIJA JR HIGH	x	x	x	x	x			x		x	7	5	6		716,000	230,000
Bioswale Lower Athletic Field/Erosion Control	MATILIJA JR HIGH	x	x	x	x	x			x		x	7	10	8		3,100,000	1
Rainwater Capture for Irrigation Reuse	NORDOFF HIGH SCHOOL	x	x	x	x	x	x	x	x	x	x	10	4	7		183,600	136,000
Rainwater Capture for Library Toilet and Food for Thought Garden	NORDOFF HIGH SCHOOL	x	x	x	x	x		x	x	x	x	9	3	6		391,900	235,300
Stormwater Bioswale Overflow to Ojai Meadows Preserve	NORDOFF HIGH SCHOOL	x		x	x	x		x			x	6	12	9		1,800,000	1
Bioswale Heavy Metal Remediation Parking Lot	NORDOFF HIGH SCHOOL	x	x	x	x	x		x	x		x	8	3	5		114,383	1
Grasscrete Parking Lot	NORDOFF HIGH SCHOOL	x		x	x	x		x	x			6	2	4		1,844,423	11,400
Pool deck replacement - Permeable Pavers	NORDOFF HIGH SCHOOL	x		x	x	x						4	n/a	n/a		170,000	
Bioswale Corridor Project	MEINERS OAKS ELEMENTARY	x	x	x	x	x		x	x	x	x	8	13	11		1,200,000	
Rainwater Capture for Food for Thought Garden Project	MEINERS OAKS ELEMENTARY	x	x	x	x	x	x	x	x		x	9	2	5		85,000	
Nature Play Scapes with Irrigation Stormwater Reuse	MEINERS OAKS ELEMENTARY	x	x	x	x	x	x	x	x	x	x	10	8	9		3,515,589	1
	0																
Project TOTALS**																**12,484,120**	**900,128**
G/y to acre ft/yr															38.31		2.76

NORDOFF High School

OUSD Stormwater LID Project

1) Graphs visual ranking system, showing PLATE SCORE (count of benefits achieved 1-10), as well as simplest ROI (water savings/$). GREEN AVERAGE bars represent aggregated average of both scores.
2) This quick ranking system is to guide decision making and inform on multi-beneficial uses of implemented solutions.
3) Nordoff High School acting as a community center and adjacent to Ojai Meadow Preserve, is a prime location to mitigate and solve stormwater problems that contribute to the major flooding onsite as well as downslope in the Ojai community. Large asphalt parking lots, new library and pool construction can all be tied into stormwater solutions.



NORDOFF High School

Matilija Jr. High

1) Graphs visual
plest ROI (wat
2) This quick rank
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3) Nordoff High S
location to mit
well as downst
tion can all be

MEINERS OAKS ELEMENTARY

1) Graphs visual rankir
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3) Matilija has a myria
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1) Graphs vi
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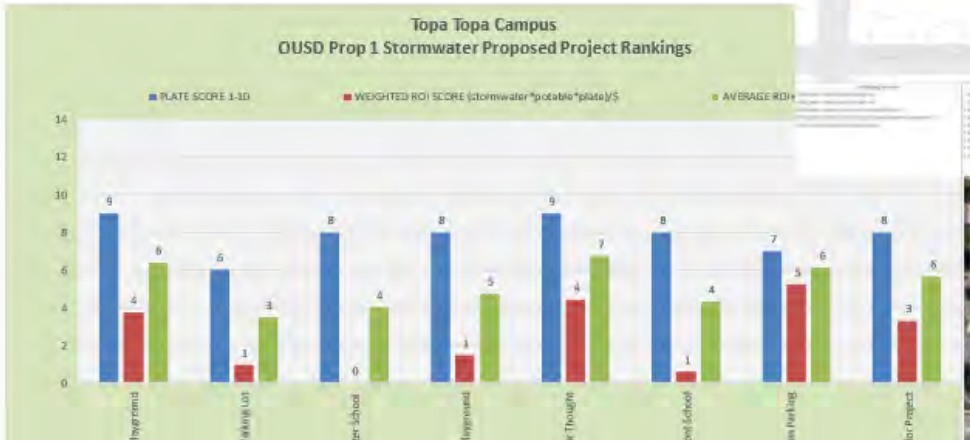
2) This quick
mented s
3) Meiners
Stormwat

TOPA TOPA ELEMENTARY

OUSD Stormwater LID Project

1) Graphs visual ranking system, showing PLATE SCORE (count of benefits achieved 1-10), as well as simplest ROI (water savings/$). GREEN AVERAGE bars represent aggregated average of both scores.
2) This quick ranking system is to guide decision making and inform on multi-beneficial uses of implemented solutions.
3) Topa Topa has more projects identified as flooding maintenance and concerns were highest in number and volume at this site.



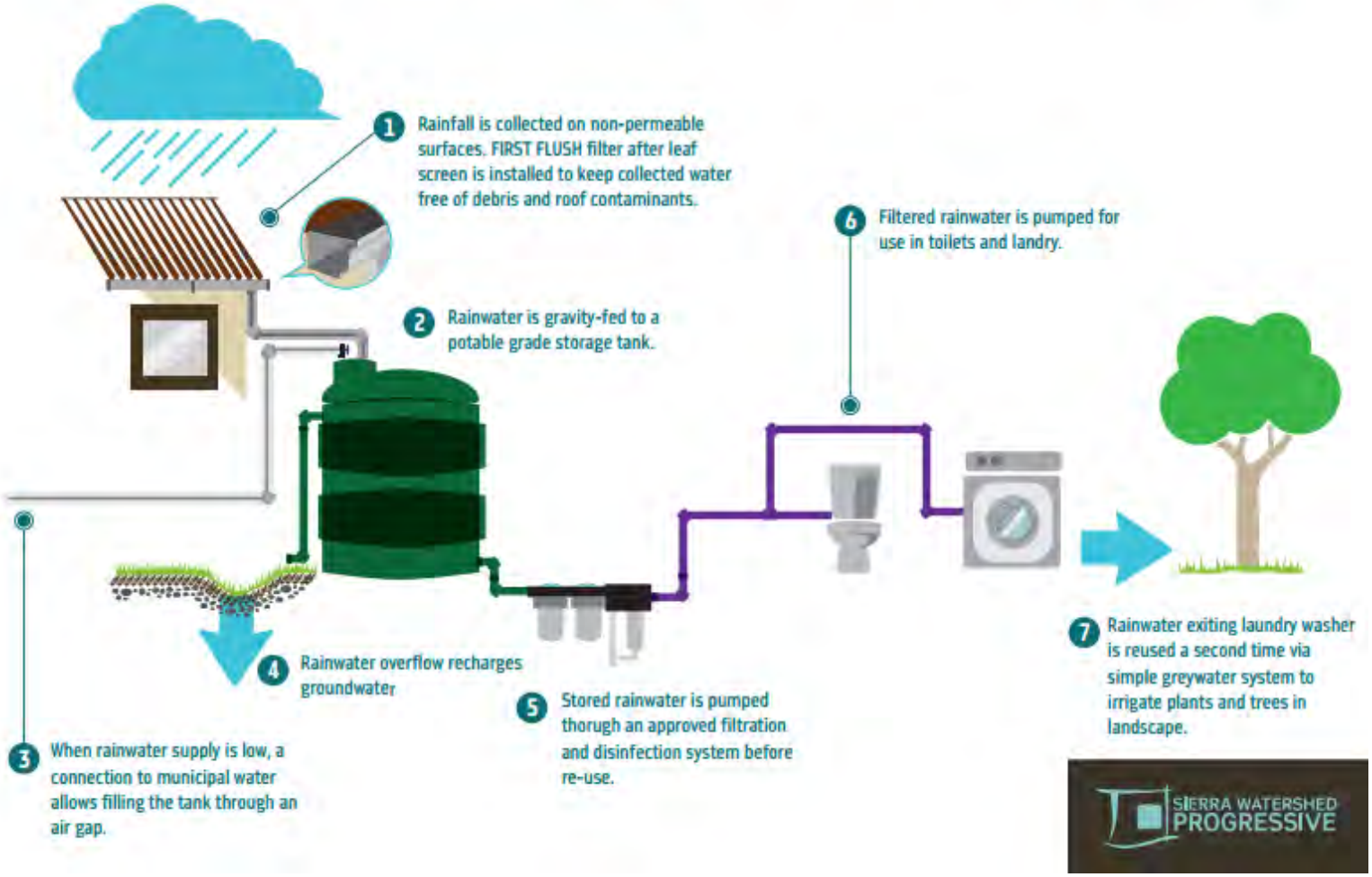
STEP 4: make a difference

use ideas to scale

people make changes

not fish

RAINWATER HARVESTING AND MULTIPLE RE-USE



WATER MANAGEMENT PLAN
PROJECT UPDATES

THACHER

November 2016

Project Overview

The purpose of the Thacher School Water Management Plan (WMP) is to analyze water resources, both existing and available to Thacher School. The WMP prioritizes uses in context of current and available Best Management Practices (BMP) to work most efficiently in line with the objectives, goals and management of the Thacher campus and landscape.

In turn, all identified water management recommendations were formed with these objectives:

- Increase stewardship and leadership opportunities for Thacher School community
- Increase independence of water resources for Thacher School
- Reduce water consumption and expenditures from offsite sources
- Reduce water consumption from ecologically sensitive sources, such as Thacher Creek
- Decrease nutrient loading in San Antonio watershed
- Decreasing runoff velocity and volumes during storm events
- Recharging groundwater base flows for landscape availability and ecological benefits

Project Cost & Capital Ask

Q: What is the estimated WMP project cost?

A: The average price per gallon $0.34/gallon, with a cost estimate of $14.7 million for full implementation.

Q: What grants have been submitted, and what are associated timelines?

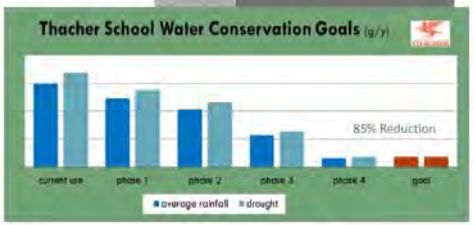
A: Multiple large grants asks for implementation and planning have been submitted, with awards from the California Conservation Corps currently underway.

Project Timeline

This project is expected to take 8-10 years in planning through implementation. Phase One and Two have already begun implementation and various planning phases.

Project Partners

To reach the project goals, we have partnered with a variety of organizations and consulting firms, as well as private foundations and funders. More information is available upon request.



DORMITORY RAINWATER REUSE	OUTREACH EVENTS WATER REUSE	STORMWATER ORCHARD RECHARGE	DORMITORY GREYWATER REUSE	COMPOST REUSE (NUTRIENT REUSE)	EQUESTRIAN STORMWATER REUSE
STATUS: Planning, Grant Asks Submitted	STATUS: July 2015, Spring 2016	STATUS: Planning Implementation	STATUS: Planning, Implementation	STATUS: Implementation	STATUS: Grants Submitted, Implementation

WATER MA

PROJE

Project Overvi

The purpose of the Thacher Schoo
WMP prioritizes uses in context of
management of the Thacher camp
In turn, all identified water manag

- Increase stewardship and lea
- Increase independence of wa
- Reduce water consumption a
- Reduce water consumption f
- Decrease nutrient loading in
- Decreasing runoff velocity ar
- Recharging groundwater bas

Project Cost & Ca

Q: What is the estimated WM

A: The average price per gallo
full implementation.

Q: What grants have been sul

A: Multiple large grants asks f
with awards from the Californi

Project Timeline

This project is expected to take
implementation. Phase One a
mentation and various planning

Project Partners

To reach the project goals, we
organizations and consulting fir
and funders. More information

DORMITORY RAINWATER REUSE
STATUS: Planning, Grant Asks Submitted

OUTRE WAT
STATU Spr

DORMITORY G

Project Summary

Project Overview

The greywater project from dormitories on
million gallons of greywater annually throug
ries on campus. Of this, up to 93%, or 2.37
purposes for landscape plantings on campu
table water consumption, groundwater rec
will provide a model environment for The T
tershed's critical nutrient and flow objective
first, with shower greywater to be installed
nance, monitoring as well as community ou
mentation.

Project Cost & Capital As

Q: What is the estimated project cost?

A: $424,676

Q: What grants have been submitted, and

A: Emergency Drought Response Program
ongoing since July 2015 to July 2016 throug
Over $253,000 worth of labor has been awa
community technical workshop was held wi
2015 that assisted in installing a dormitory

Project Timeline

This project is expected to take 2 years in in
content from only the last month. Laundry
with five dormitories saving over half a milli

EQUESTRIAN

Project Summary: The Thacher Creek E

Project Overview

The Thacher Creek Equestrian Instream
storing degraded Steelhead habitat by i
months, decreasing nutrient loading du
sediment and high scouring events with
the Ventura River Watershed. The proje
diverted from the San Antonio Subwate
ing approximately 580,600 to 837,055 g
ing on precipitation levels (drought to a
infiltrating erosive and problematic stor
restoration Low Impact Development ba
This water conservation project will crea
100% of all water needs of the equestria
fore will be able to confidently leave the
the southern Steelhead recovery.

Project Cost & Capital

Q: What is the estimated project cost?

A: $1,278,528

Q: What grants have been submitted,

A: Fisheries Restoration Grant Program
implementation assistance was submitt

Project Timeline

This project is expected to take 3.5 years

THACHER

DORMITORY RAINWATER REUSE PROJECT

Project Summary **November 2016**

Project Overview

This project will improve instream flow to a critical southern steelhead habitat on Thacher Creek while removing barriers to water conservation in Ventura Watershed. This is made possible through development of an alternative onsite water supply of captured nuisance stormwater, which will be used for school orchard and landscape irrigation, as well as 100% of all dormitory toilet flushing. This project will capture 920,000 gallons of rainwater, enhancing water supply, reducing the erosive effects of storm events in the upper Ojai Basin, as well as reducing discharge of nutrient rich stormwater pulses to the San Antonio watershed. Additionally, to increase potential for supplementing summer base flows and increasing groundwater recharge, the storage tank overflows will be infiltrated into upland habitat restoration Low Impact Development (LID) based bioswales and vegetated infiltration basins. Overall, this project will create a lasting model at Thacher School, influencing our own student body to regional fisheries professionals, on how best to remove barriers and enhance Central Coast record low stream flows through uncertain climates and watershed management of the future.

Project Cost & Capital Ask

Q: What is the estimated project cost?

A: $946,212

Q: What grants have been submitted, and what are associated timelines??

A: Wildlife Conservation Board grant for $836,221 in planning and implementation assistance was submitted September 2015. Awards expected in Spring 2016.

Project Timeline

This project is expected to take 3.5 years in implementation from permitting to monitoring.

Watershed & Regional Partners

- Central Coast Salmon Enhancement
- Ojai Valley Land Conservancy
- Emergency Drought Preparedness Program (eDRIP)
- Sierra Watershed Progressive
- Salmon Restoration Federation
- California Conservation Corps

1. Rainwater storage of 575,000 g/y with reuse of up 935,228 g/y of annually, while conserving additional 15% of water irrigation budget on stormwater based irrigation/orchard practices.
2. Mitigates stormwater with BMPs to lessen nutrient and sediment loading to Ventura watershed.
3. Includes 100% of annual toilet reuse at dormatories and can provide additional

reusing RAINWATER

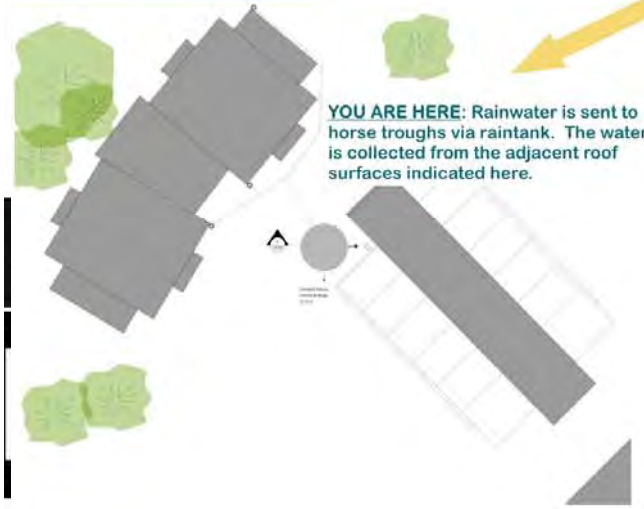
Conserving Water at The Thacher School: one drop at a time

THACHER

CATCHING the RAIN:
HOW DOES IT HELP?

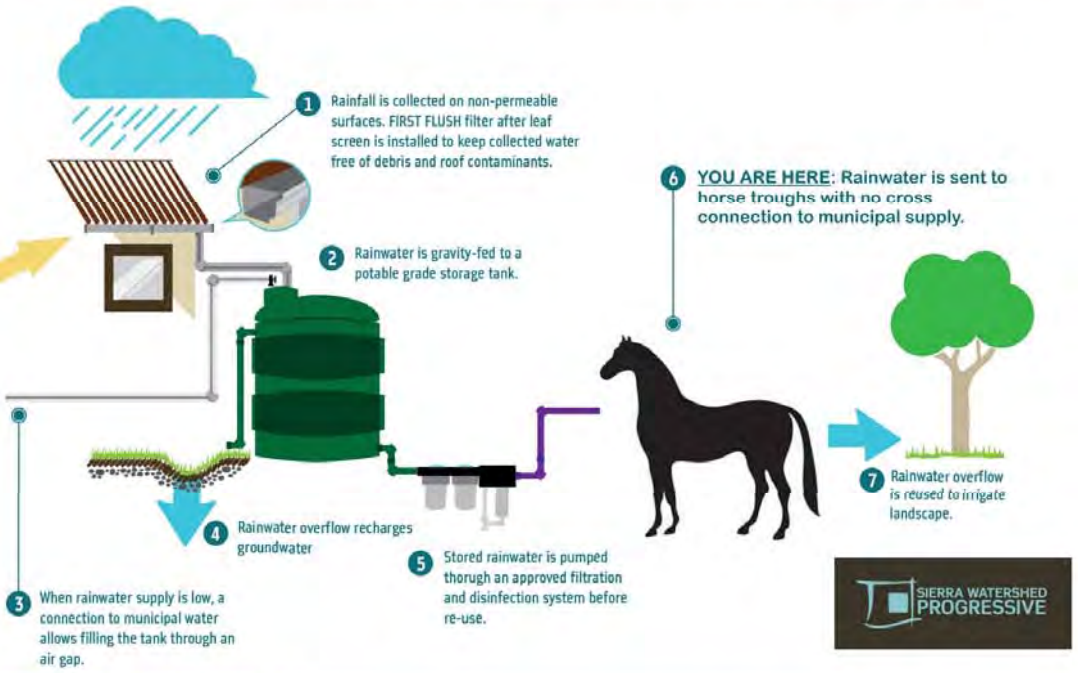
SUSTAINABLE USES:
Fire protection
Domestic non-potable
Livestock watering
Irrigation, water features
Long term storage
Emergency
Resilience

REDUCES:
Fire risk
Flooding problems
Soil loss, erosion issues
Local water supply demand
Emergency risk
Streambank erosion
Nutrient/Pathogen loading



YOU ARE HERE: Rainwater is sent to horse troughs via raintank. The water is collected from the adjacent roof surfaces indicated here.

RAINWATER HARVESTING AND MULTIPLE RE-USE



SIERRA WATERSHED PROGRESSIVE

DID YOU KNOW?

This tank will save 10,000 to 24,000 gallons of water annually.

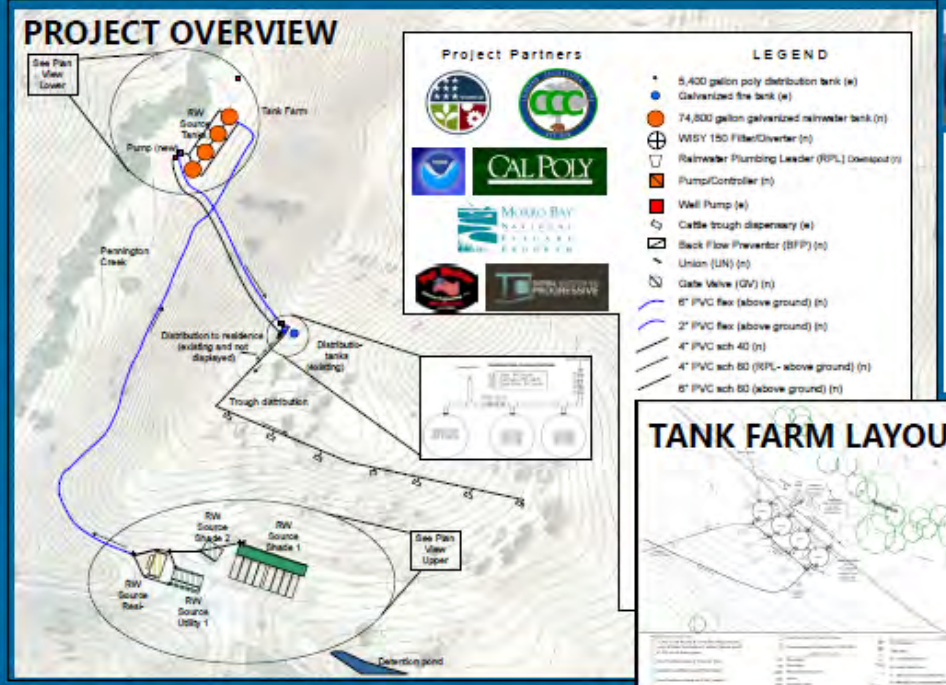
AGRICULTURAL RAINWATER CATCHMENT

BEEF UNIT at California Polytechnic University at San Luis Obispo, CA

PROJECT DETAILS

Cost: $384,745
Water Capture Capacity: 308,000 gallons
Annual Rainfall: 1-30 inches
Roof Capture Square Footage: 14,774
Period of Use: July- October
Number of Cattle: 190

PROJECT OVERVIEW



TANK FARM LAYOUT

STEP 5: create adaptive strategies

discuss weak points

ensure success route with users

Maintenance Plan:

The Thacher School Rainwater Reuse Project

March

2016

This document describes methods and protocols to best maintain and monitor The Thacher School's Rainwater Reuse Project. This project has been designed and implemented by:

Sierra Watershed Progressive
Lic. # 925678
Working within the Watershed

se?

Table 1.a Summary of Maintenance Protocols – Rainwater Tanks

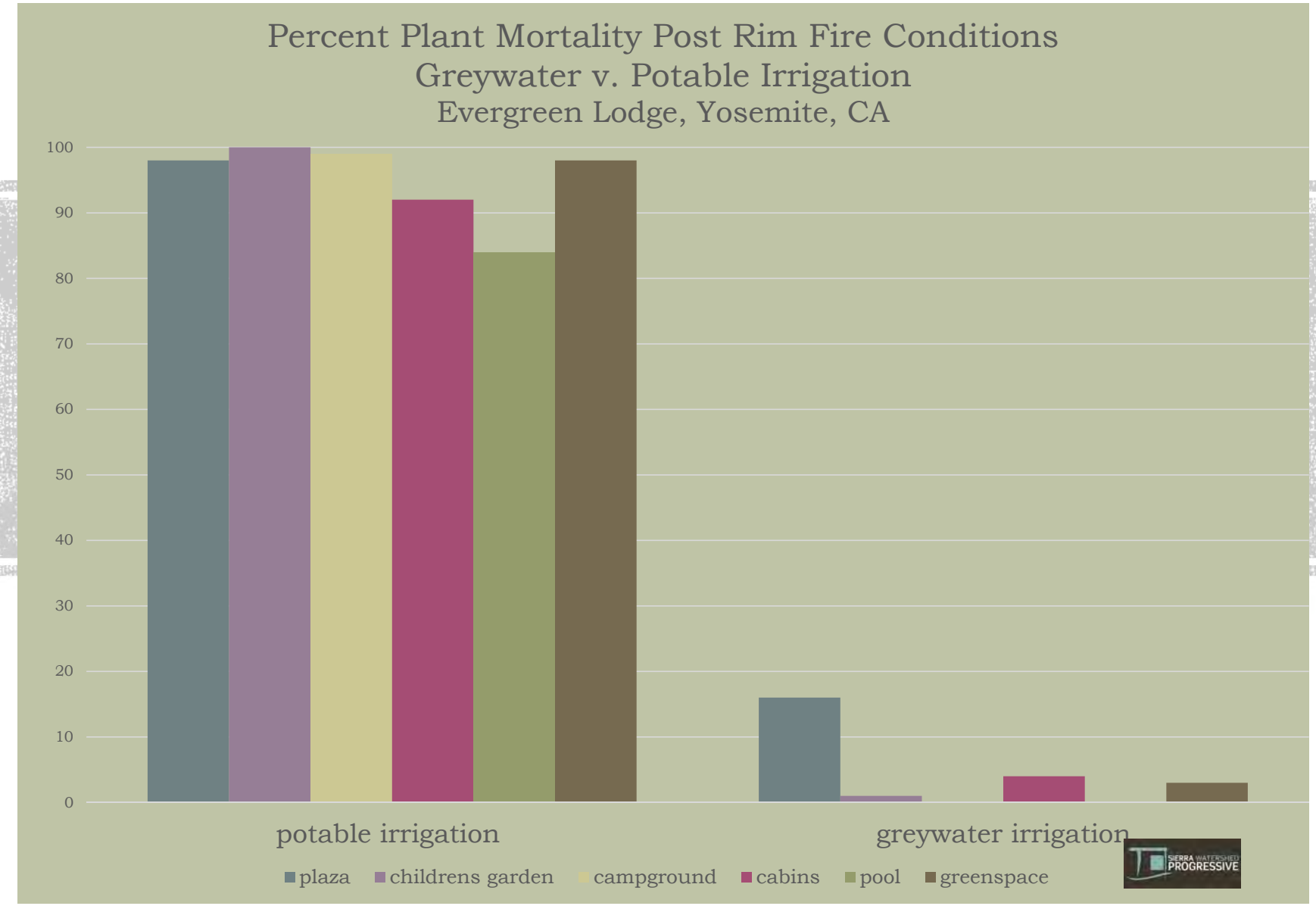
	WISY Filter Inspection, Clean	WISY Mulch Overflow Inspection, Clean	2" and 6" Isolation Valve Inspection	Pump Oil Levels, Belt Inspection	Field Plumbing Inspection	Dorm Roof and gutter inspection	Tank Inspection and Clean out
	Quarterly, first year, frequency as needed based on first year data	Annually	Annually	Annually	Annually	September, As needed	End of October when tanks are dry (Annually)
Hill - 58k gal tank	x	x	x	x	x	x	x
Hill - 89k gal tank (2)	x	x	x	x	x	x	x
Sespe - 5k tank gal	x	x	x	x	x	x	x
Los Padres - 15k tank (2)	x	x	x	x	x	x	x
Los Padres – 5k gal tank (2)	x	x	x	x	x	x	x
Upper School – 15k tank gal	x	x	x	x	x	x	x
Upper School – 5k gal tank (3)	x	x	x	x	x	x	x
Middle School - 58k tank gal	x	x	x	x	x	x	x
Middle School – 7k tank gal	x	x	x	x	x	x	x
Middle School – 5k gal tank (3)	x	x	x	x	x	x	x
Lower School – 5k gal tank (2)	x	x	x	x	x	x	x

STEP 6: test resiliency strength

safety factors

be ready for anything


fire/disaster effects


Percent Plant Mortality Post Rim Fire Conditions
Greywater v. Potable Irrigation
Evergreen Lodge, Yosemite, CA
100
90
80
70
60
50
40
30
20
10
0
potable irrigation
greywater irrigation
plaza
childrens garden
campground
cabins
pool
greenspace
SIERRA WATERSHED PROGRESSIVE

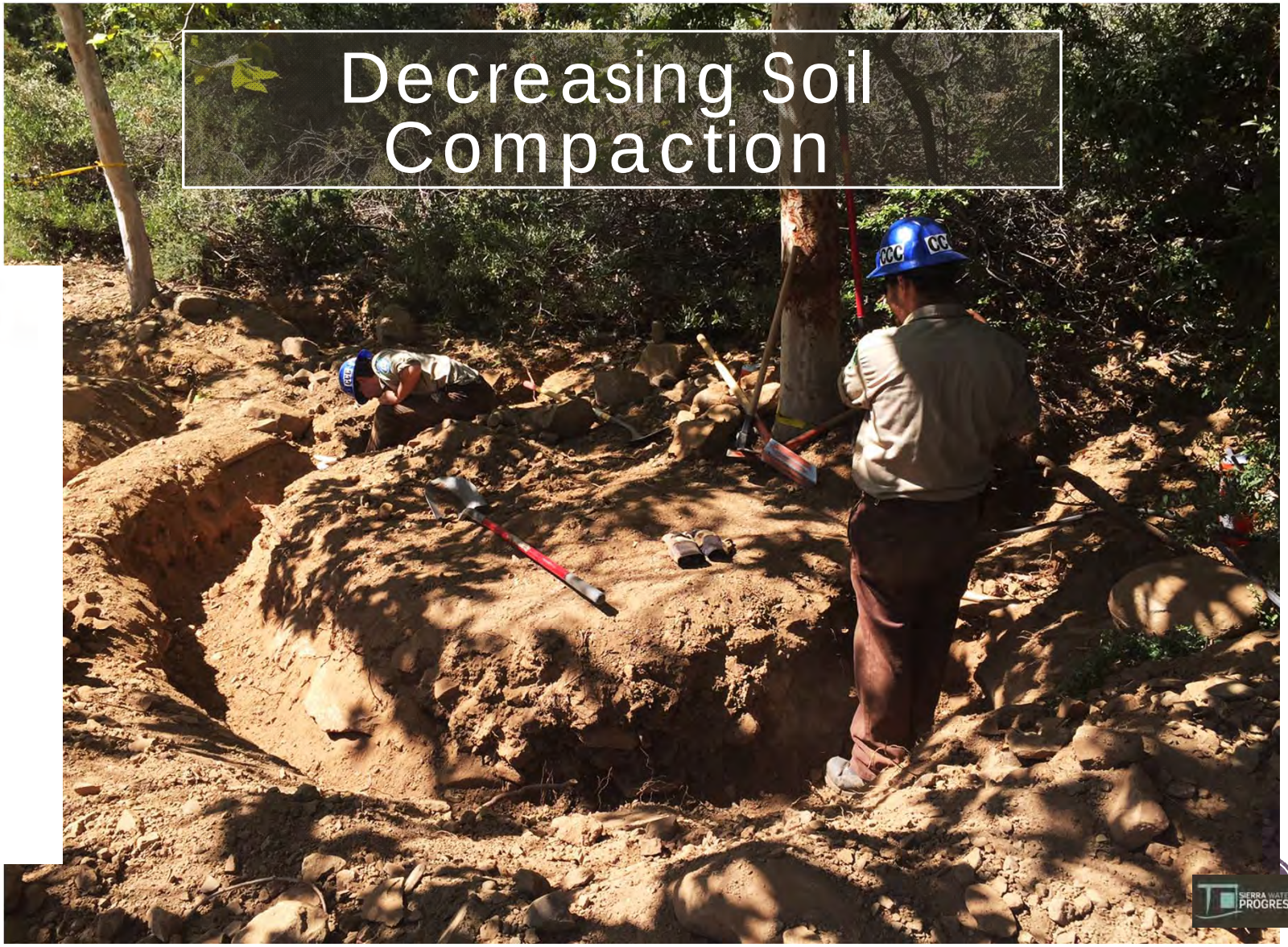
STEP 7: pay attention to context

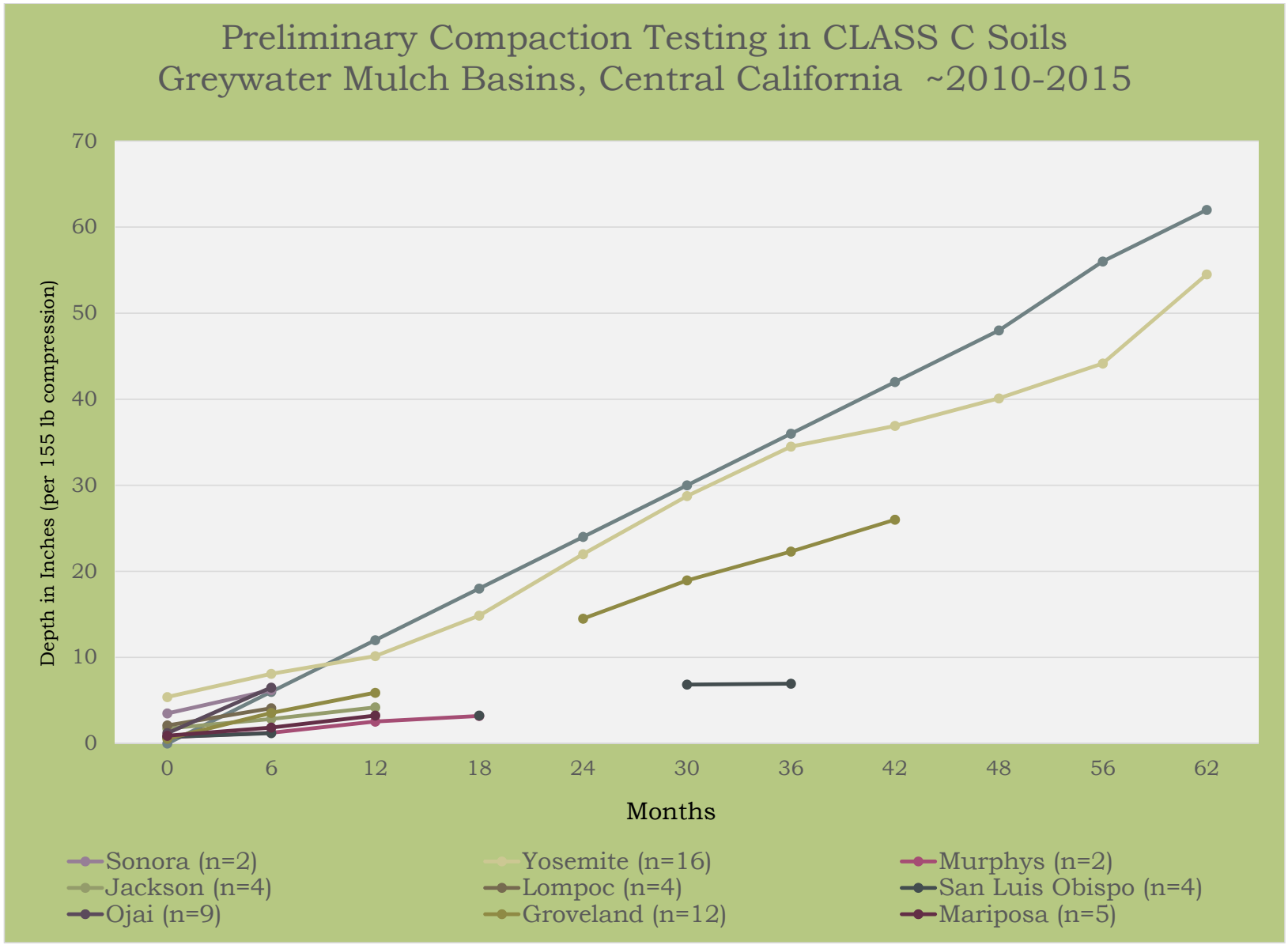
evaluate effectiveness

share lessons, learned and refine.

Decreasing Soil Compaction

Decreasing Soil Compaction




Preliminary Compaction Testing in CLASS C Soils
Greywater Mulch Basins, Central California ~2010-2015
Depth in Inches (per 155 lb compression)
70
60
50
40
30
20
10
0
0
6
12
18
24
30
36
42
48
56
62
Months
Sonora (n=2)
Yosemite (n=16)
Murphys (n=2)
Jackson (n=4)
Lompoc (n=4)
San Luis Obispo (n=4)
Ojai (n=9)
Groveland (n=12)
Mariposa (n=5)

STEP 8: ensure understanding

outreach

train the community of users

LOCALIZING CALIFORNIA WATERS

A HANDS-ON INTENSIVE FOR CONSERVATION AND REUSE

californiawaterreuse.org

nov 1-4, 2016

Focus on "Watershed Approaches"

The Localizing California Waters Conference focuses on all aspects of integrated Water Reuse and LID techniques: Stormwater, Rainwater, Greywater, Blackwater, California Decentralized Water Reuse Policy, and Watershed Management.

- **Reuse and Job Faire (FREE to PUBLIC)** Exhibitors, Technical Hands-On Displays, Mobile Reuse Learning Labs, Grant Clinics, Job Faire, Water Assessments
- Policy Roundtable/Workshops
- Greywater Contractor Training Certification, Tours of Yosemite BMPs
- Poster Session
- Continuing Education Credits: 20 CEUs are available for conference attendees
- Registration: $175 day/$275 3 day, Nov. 4 Water Reuse Faire Free

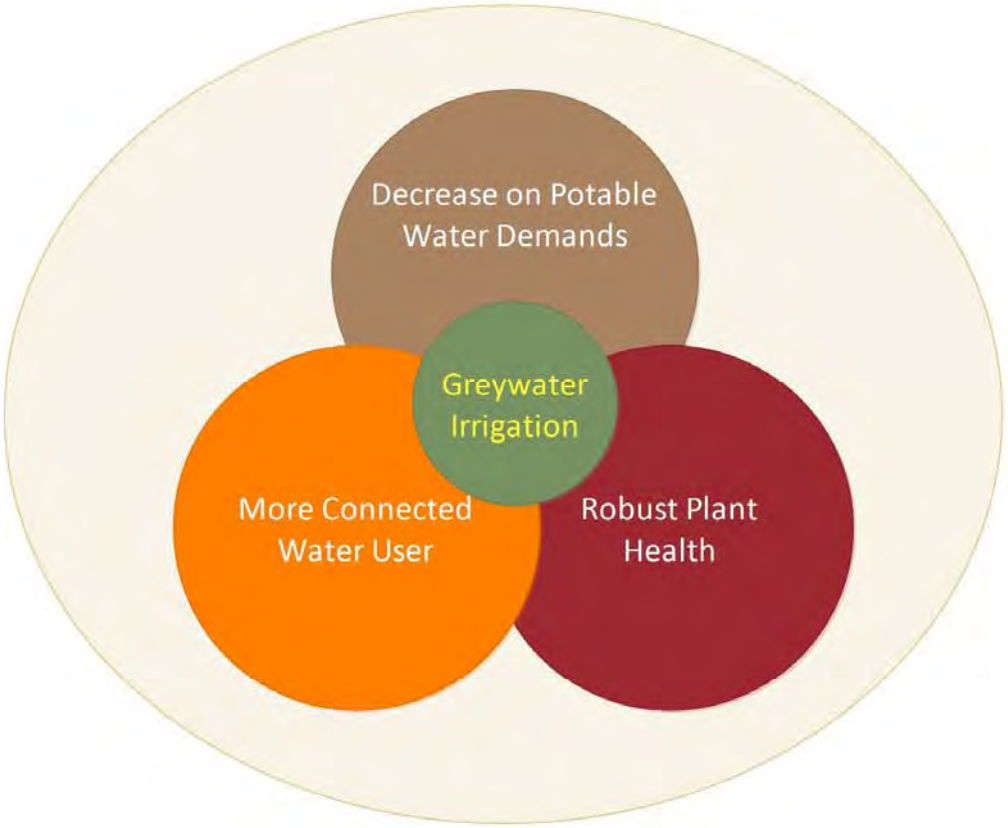
CALIFORNIAWATERREUSE.ORG

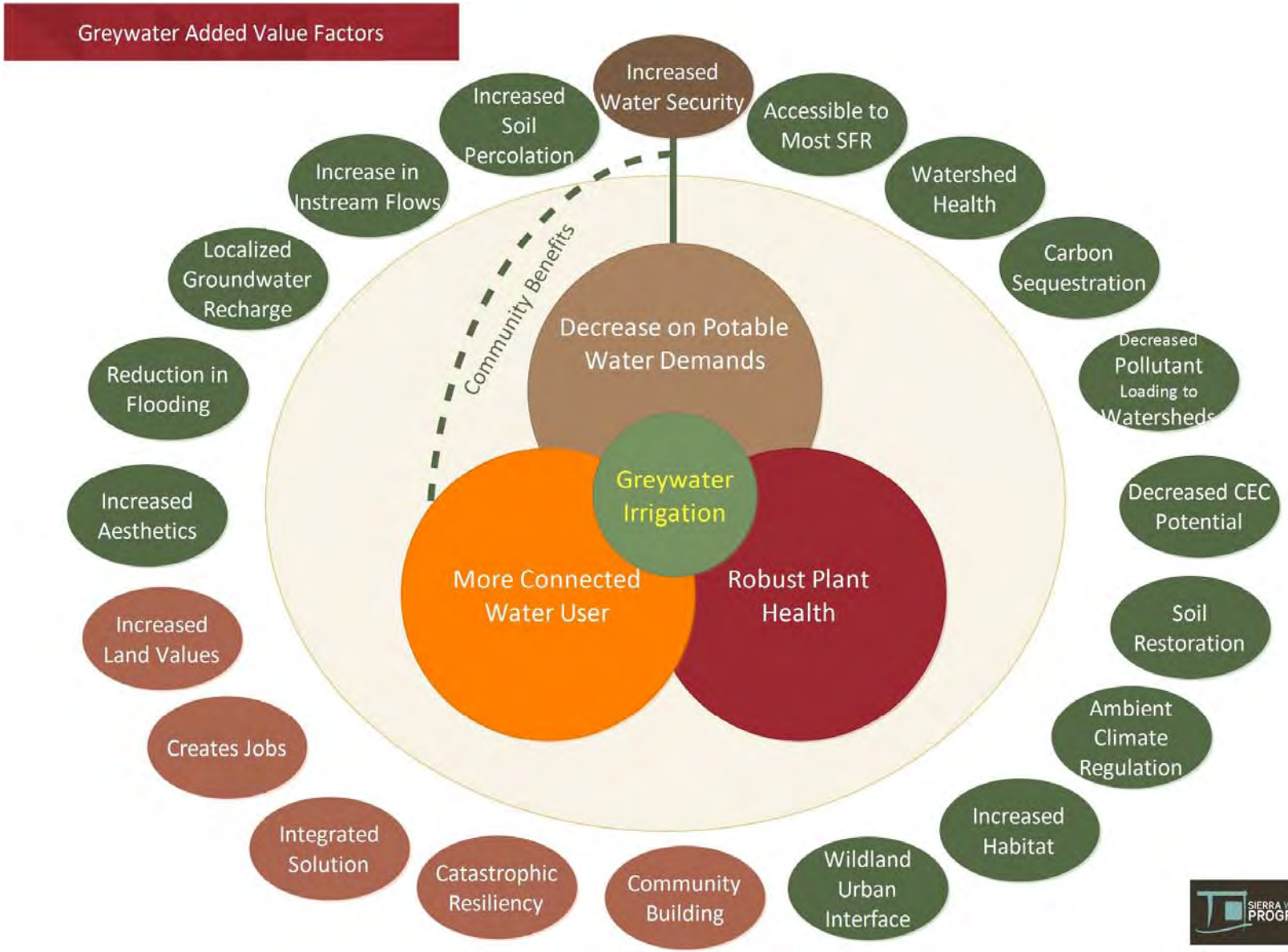
STEP 9: capture added value benefits

assess roi

money and water isn't everything

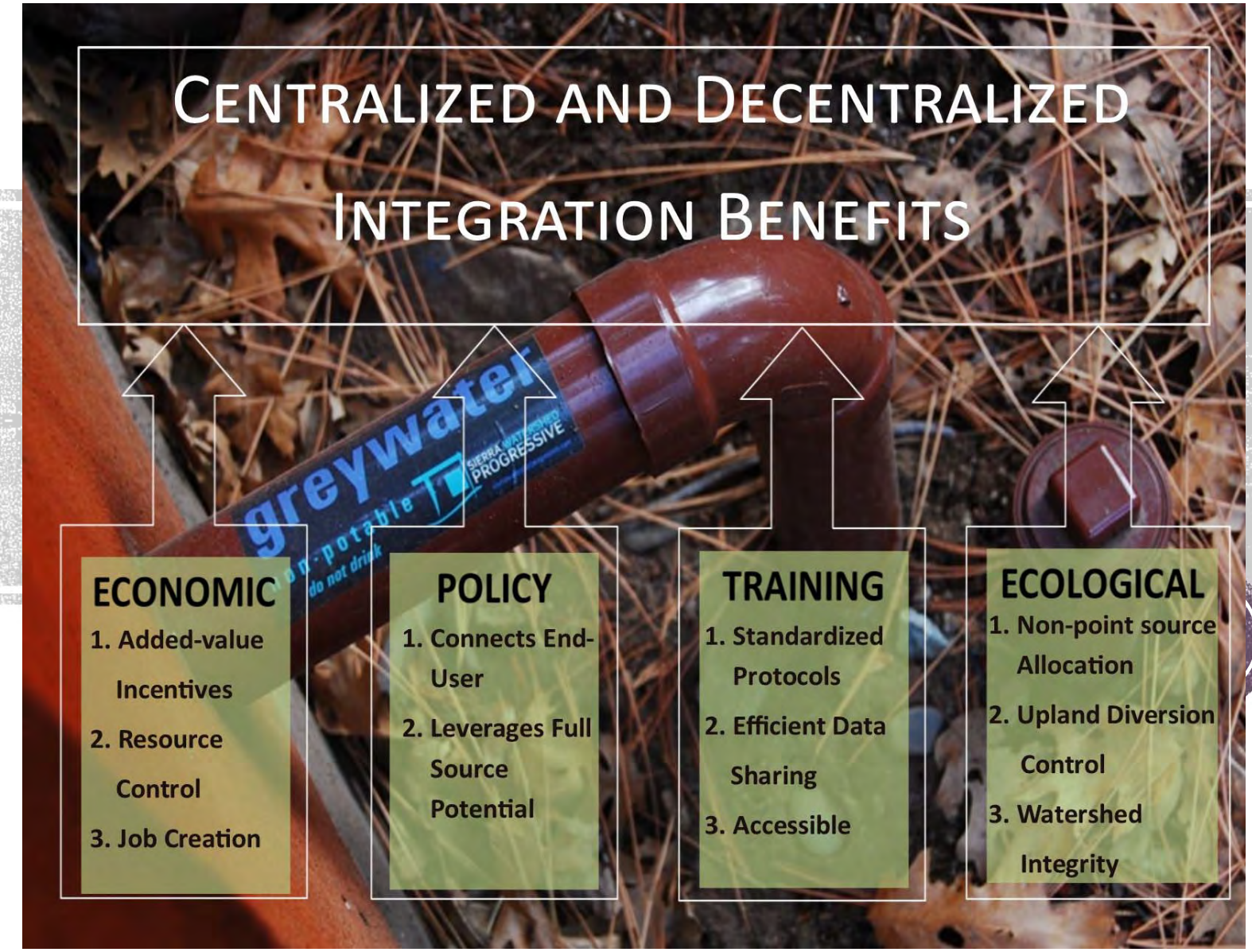
Greywater Added Value Factors




Greywater Added Value Factors
Increased Water Security
Accessible to Most SFR
Watershed Health
Carbon Sequestration
Decreased Pollutant Loading to Watersheds
Decreased CEC Potential
Soil Restoration
Ambient Climate Regulation
Increased Habitat
Wildland Urban Interface
Community Building
Catastrophic Resiliency
Integrated Solution
Creates Jobs
Increased Land Values
Increased Aesthetics
Reduction in Flooding
Localized Groundwater Recharge
Increase in Instream Flows
Increased Soil Percolation
Community Benefits
Decrease on Potable Water Demands
Greywater Irrigation
More Connected Water User
Robust Plant Health

STEP 10: sign-up for the long term view

collaborate & integrate


CENTRALIZED AND DECENTRALIZED
INTEGRATION BENEFITS
greywater
SIERRA PROGRESSIVE
ECONOMIC
1. Added-value Incentives
2. Resource Control
3. Job Creation
POLICY
1. Connects End-User
2. Leverages Full Source Potential
TRAINING
1. Standardized Protocols
2. Efficient Data Sharing
3. Accessible
ECOLOGICAL
1. Non-point source Allocation
2. Upland Diversion Control
3. Watershed Integrity

STEP 11:

rinse and repeat

questions?