

**BIG BEAR AREA REGIONAL WASTEWATER AGENCY;
BIG BEAR CITY COMMUNITY SERVICES DISTRICT;
CITY OF BIG BEAR LAKE, DEPARTMENT OF
WATER AND POWER;
BIG BEAR MUNICIPAL WATER DISTRICT
AND BEAR VALLEY BASIN GROUNDWATER
SUSTAINABILITY AGENCY
NOTICE OF WORKSHOP
July 17, 2018**

A Special Workshop with Big Bear Area Regional Wastewater Agency; Big Bear City Community Services District; City of Big Bear Lake, Department of Water and Power; Big Bear Municipal Water District and Bear Valley Basin Groundwater Sustainability Agency will be held on Tuesday, July 17, 2018 1:30 p.m. at 121 Palomino Drive, Big Bear City, California 92314.

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Public Comment on Agenda Items Only** – The Public Comment portion of the meeting is an opportunity for members of the public to directly address the Governing Board on matters on the agenda.
4. **Presentation and introductions**
 - A. Bear Valley Water Sustainability Project – Presentation and Discussion
5. **Adjournment**

In compliance with the Americans with Disabilities Act and Government Code Section 54954.2, if you need special assistance to participate in an Agency meeting or other services offered by the Agency, please contact Kimberly Booth, Administrative Assistant at (909) 584-4018. Notification at least 48 hours prior to the meeting or time when services are needed will assist the Agency staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting or service.

Copies of staff reports or other written documentation relating to each item of business referred to on this agenda are on file in the office of the Big Bear Area Regional Wastewater Agency and are available for public inspection during normal business hours.

Visit www.bbarwa.org to view and/or print the Agenda Package



BEAR VALLEY WATER SUSTAINABILITY PROJECT
BOARD WORKSHOP
JULY 17TH, 2018

Delivering New Water Solutions



PROJECT TEAM



Big Bear Area Regional Wastewater Authority (BBARWA)



Big Bear City Community Services District (BCCSD)



City of Big Bear Lake Department of Water (BBLDWP)



Big Bear Municipal Water District (BBMWD)



Bear Valley Basin Groundwater Sustainability Agency (BVBGSA)



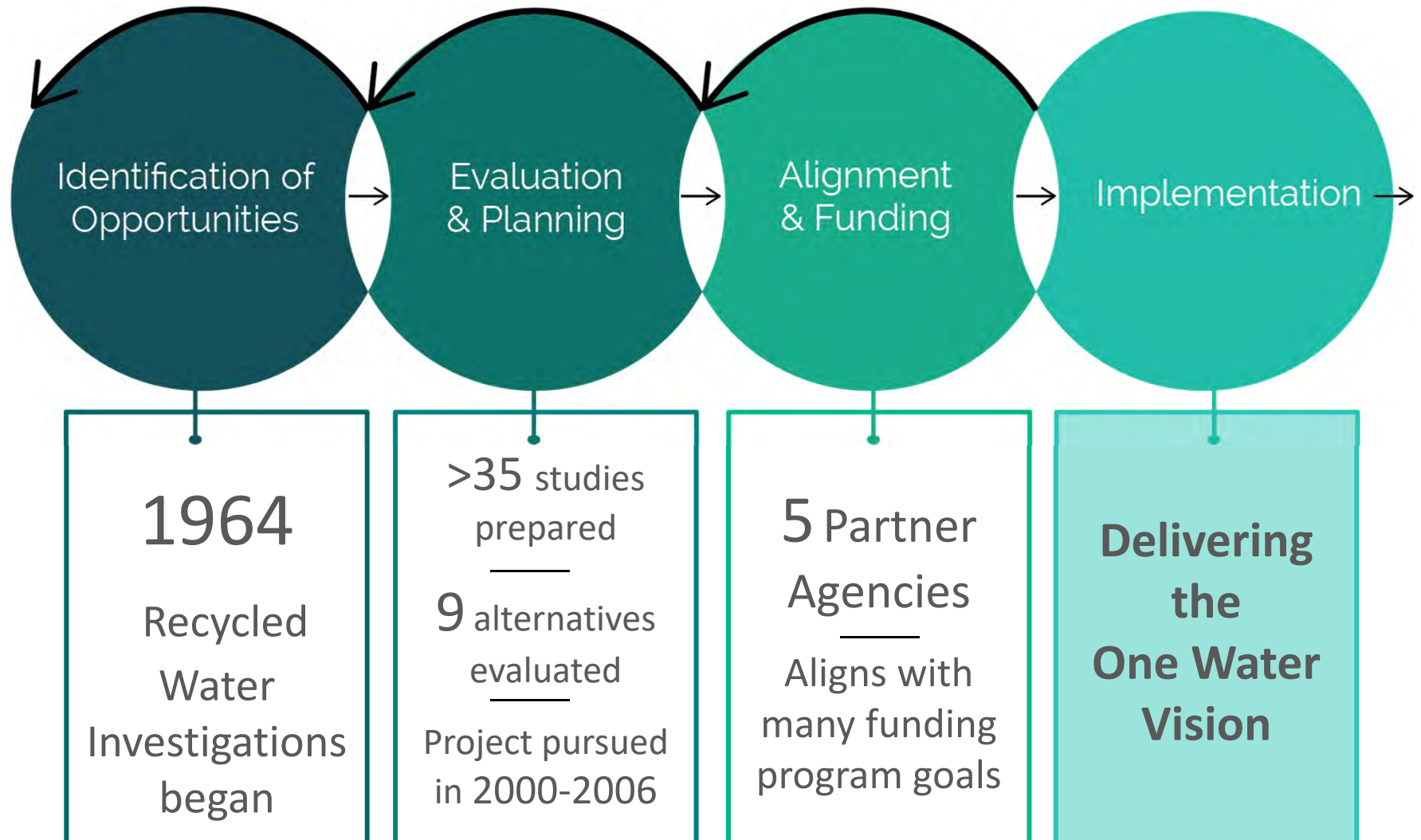
Water Systems Consulting (WSC)



WORKSHOP AGENDA

1. Introductions
2. Program Overview
3. Program Charter Overview
4. Branding, Communications and Outreach
5. Phase 1 Activities
6. Key Funding Opportunities
7. Program Governance Process
8. Closing

DECADES OF WORK TO ARRIVE AT NEW WATER POSSIBILITIES FOR FUTURE

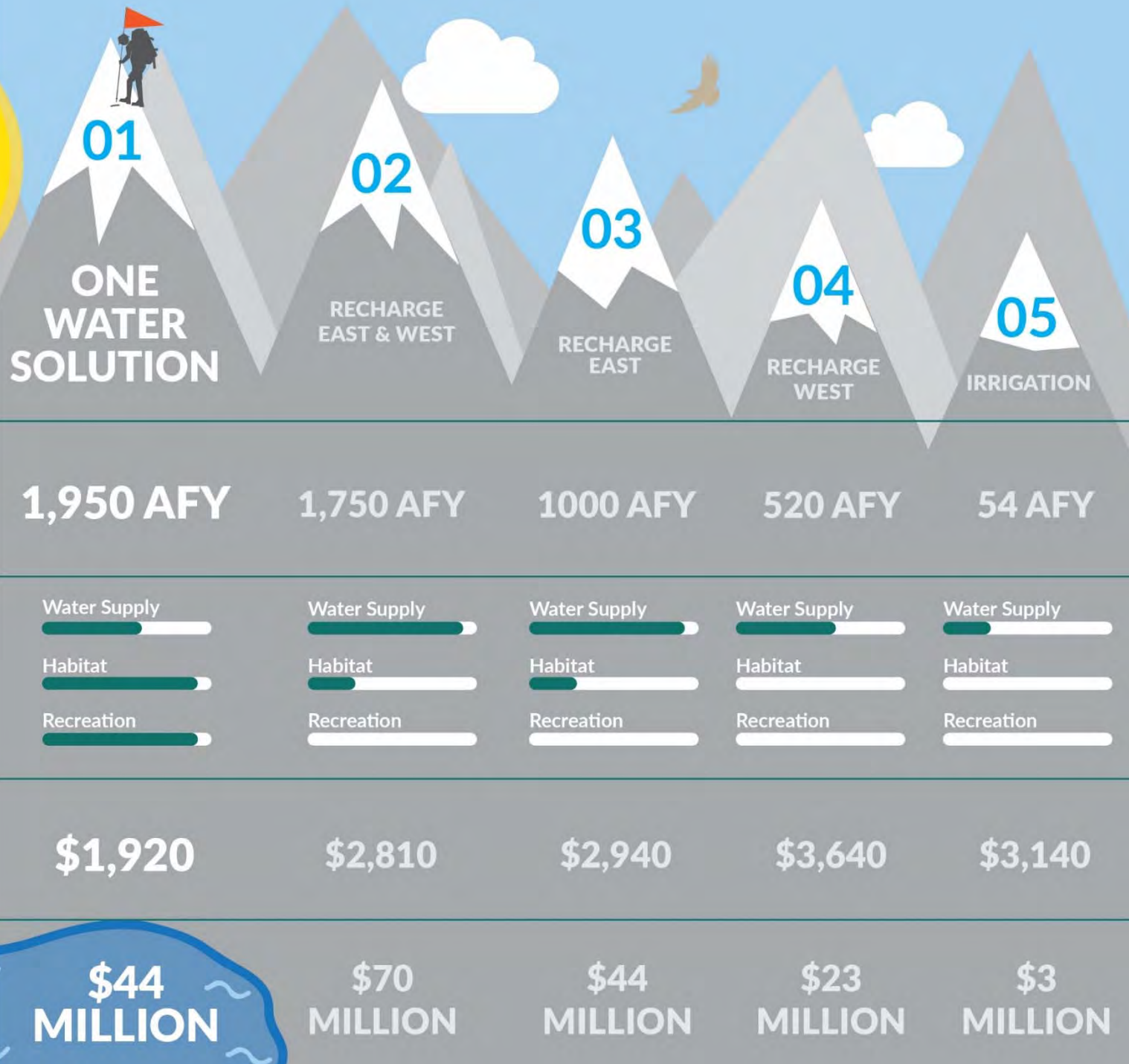


“One Water is an integrated planning and implementation approach to managing finite water resources for long-term resilience and reliability, meeting both community and ecosystem needs.”

- Blueprint for One Water, Water Research Foundation



Finding the Right Balance for Big Bear Valley's Water Resources



**THE BIG BEAR VALLEY WATER
SUSTAINABILITY PROJECT WILL:**



Restore and reuse a
lost water resource.

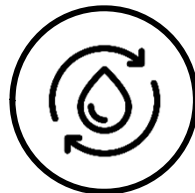
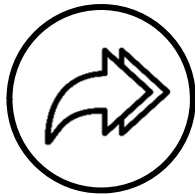


Protect the rare and diverse
habitat and species.



Promote a thriving community
through enhanced recreation.

RENEWING OUR WATER FUTURE



Closing the Water Gap and Keeping Water Local!

More than **32 billion gallons** exported out of watershed since 1980

Program efforts will recover nearly **600 million gallons** of water annually

STRENGTHENING A COMMUNITY



Supporting a Unique Residential and Tourism Community!

20,000 people in diverse natural location and **8.3 million** visitors annually



Program will increase Big Bear Lake levels by **up 5 feet** in dry year



ENHANCING THE ENVIRONMENT



Protecting more than 155 acres dedicated to wildlife and waterfowl preserve!

Sustain Stanfield Marsh ecosystem and endangered Unarmored Threespine Stickleback fish

Program will provide a **new constant source of water**

PHASE 1 REPRESENTS BIG STEPS FORWARD



Big Steps Forward

- Community Engagement and Support
- Regulatory Strategy
- Preliminary Engineering
- Refine / Allocate Benefits
- Prepare CEQA/NEPA for funding
- Secure grants and low-interest loans

PROGRAM CHARTER:

- Road map to achieve vision through implementation
- Opportunity to align around common goals, mission, vision
- Resource for decision making and collaboration at all stages of the program



PROCESS FOR PROGRAM CHARTER CREATION





SHARING BIG BEAR VALLEY'S WATER JOURNEY

BRANDING | COMMUNICATIONS | OUTREACH

STRONG FOUNDATION FOR NEXT PHASE OF OUTREACH AND BRANDING

01

ACHIEVING BIG BEAR VALLEY WATER SUSTAINABILITY

The Big Bear Valley area is a critical system in Southern California's San Bernardino National Forest.

The valley is an area of beauty and recreation that can be seen from the airport. It is a place where people can enjoy the outdoors and the view of the mountains. The valley is a place where people can enjoy the outdoors and the view of the mountains.

Over 100,000 people visit the valley each year. The valley is a place where people can enjoy the outdoors and the view of the mountains.

The valley is a place where people can enjoy the outdoors and the view of the mountains.

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COLLABORATION TOWARD LONG-TERM WATER RESILIENCE

The valley is a place where people can enjoy the outdoors and the view of the mountains.

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THE BIG BEAR VALLEY WATER SUSTAINABILITY PROJECT WILL:

Recover nearly 400 million gallons of water annually. This is a place where people can enjoy the outdoors and the view of the mountains.

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02

JOIN THE LEGACY

32 BILLION GALLONS OF WATER CAPTURED AND STORED

14 AGENCIES COLLABORATING TO MANAGE THE VALLEY

420 MILLION GALLONS OF WATER CAPTURED AND STORED

35 STUDIES COMPLETED TO ASSESS WATER RESOURCES FOR THE VALLEY

9 MILLION GALLONS OF WATER CAPTURED AND STORED

50+ YEARS OF WATER RESOURCES MANAGEMENT

\$5 MILLION INVESTED TO DATE

\$15 MILLION FEDERAL FUNDING PROMISED BY 2024

INABLE WATER BEAR VALLEY

SUSTA FOR BIG

1. Brochure for U.S. Army Corps of Engineers presentation
2. Brochure distributed to elected officials and decision makers

A hand is shown balancing a smooth, light-colored stone on top of a stack of several other smooth, light-colored stones. The stack is placed on a larger, flat rock. The background is a blurred natural setting, possibly a riverbank or a rocky area. The overall image has a soft, muted color palette with a slight green tint.

A successful sustainable water program brand:

- Demonstrates *local* value of water to a community
- Relates to community *values* and *goals*
- Clearly shares the *benefit* of the investment
- Engages public in *learning* more about water
- Creates a recognizable *water identity*

THERE IS GREAT VALUE IN ALIGNING TO SHARE THE WATER STORY

Aligning partners around **common / baseline message** about program

Developing a **shared space** for outreach

Proactively coordinating outreach together and leveraging existing channels

Creating a new brand story / image strengthened through your collaboration



Regional One Water Brand



REGIONAL GROUNDWATER SUSTAINABILITY PROJECT

ADVANCED WATER
PURIFICATION

SAFE & SUSTAINABLE
WATER

ONE
WATER

GROUNDWATER
RECHARGE



WSC worked with the Five
Cities Partners to Renew the
RGSP Program Brand

EARLY RGSP COMMUNICATIONS FOCUSED ON FUNDING AND ELECTED OFFICIAL SUPPORT

WHY THE RGSP?

The Regional Groundwater Sustainability Project (RGSP) is a regional recycled water project to inject advanced treated recycled water into the Northern Cities Management Area (NCMA) of the Santa Maria Groundwater Basin (SMGB) to prevent groundwater contamination caused by seawater intrusion. The SMGB is a source of drinking water for more than 200,000 people and is identified as a High Priority Basin as designated by the State of California Department of Water Resources (DWR) in accordance with the Sustainable Groundwater Management Act (SGMA). The RGSP will leverage local funding along with other state funding as described below, and includes new and innovative technology including injection of advanced treated recycled water to form a seawater intrusion barrier. Once implemented, the RGSP will significantly increase water supply reliability for the agencies that pump from the NCMA including the Cities of Pismo Beach, Arroyo Grande and Grover Beach, and the Oceano Community Services District.

BENEFITS & RESULTS

PREVENT GROUNDWATER CONTAMINATION CAUSED BY SEAWATER INTRUSION

UTILIZE NEW AND INNOVATIVE TECHNOLOGY TO PROVIDE UP TO 3,500 AFY OF ADVANCED PURIFIED WATER

REDUCE WASTEWATER DISCHARGES TO THE OCEAN BY UP TO 3.5 MGD

INVOLVES COLLABORATION OF 4 COMMUNITIES AND 2 WASTEWATER TREATMENT FACILITIES

SUSTAINABLE DROUGHT-PROOF WATER SUPPLY FOR 44,000 PEOPLE

PROCESS OVERVIEW

The RGSP will recover secondary effluent from the City of Pismo Beach and the South San Luis Obispo County Sanitation District WWTPs, a resource that is currently being discharged to the ocean, and utilized full advanced treatment to produce purified water to supplement groundwater supplies and protect the local groundwater basin from seawater intrusion.

TIMELINE

UPCOMING MILESTONES

- EIR COMPLETION.....MID 2018
- TEST INJECTION WELL DESIGN & CONSTRUCTION KICKOFF.....EARLY 2018
- GROUNDWATER MODEL PHASE 1B
- COMPLETION.....MID 2018
- PHASE 1 CONSTRUCTION KICKOFF.....MID 2019
- PHASE 2 CONSTRUCTION KICKOFF.....LATE 2020

REGIONAL COLLABORATION

RGSP
REGIONAL GROUNDWATER SUSTAINABILITY PROJECT

Cost Sharing & Shared Decision Making

Cost Sharing Advocacy Platform

COSTS

PHASE/SCOPE OF PROJECT	ESTIMATED COST (IN 2018 DOLLARS)
PROGRAM MANAGEMENT	\$6,600,000
PRELIMINARY DESIGN	\$3,000,000
CEQA	\$1,000,000
TOTAL DESIGN	\$8,000,000
CONSTRUCTION	\$80,000,000
CONSTRUCTION MANAGEMENT	\$8,000,000
OFFICE EXPENSES DURING CONSTRUCTION	\$2,500,000
TOTAL:	\$98,100,000

LEVERAGE LOCAL & OTHER FUNDING SOURCES

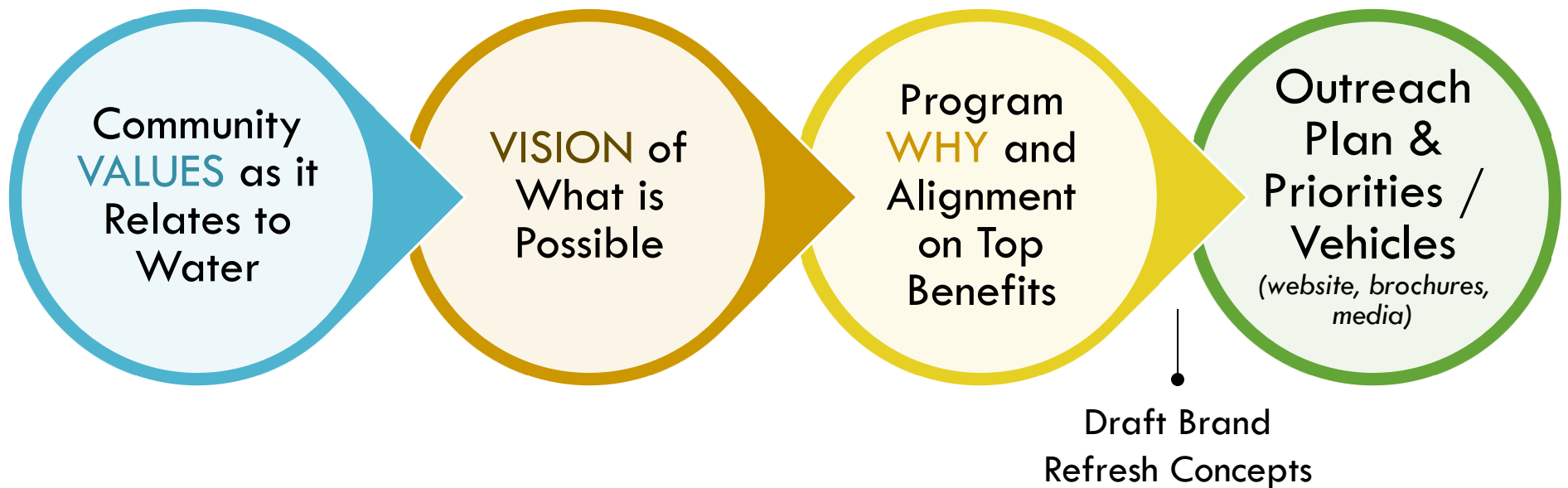
CONTACT:

Benjamin A. Fine, PE
Director of Public Works
City of Pismo Beach

805-773-7037

the Regional Groundwater Sustainability Project (RGSP) will provide a sustainable water supply for the Northern Cities Management Area (NCMA) of the Santa Maria Groundwater Basin (SMGB) by recovering secondary effluent from the City of Pismo Beach and the South San Luis Obispo County Sanitation District WWTPs, a resource that is currently being discharged to the ocean, and utilizing full advanced treatment to produce purified water to supplement groundwater supplies and protect the local groundwater basin from seawater intrusion.

PROCESS INVOLVED SIMPLE STEPS TO ARRIVE AT RENEWED BRAND



MADE TO STICK

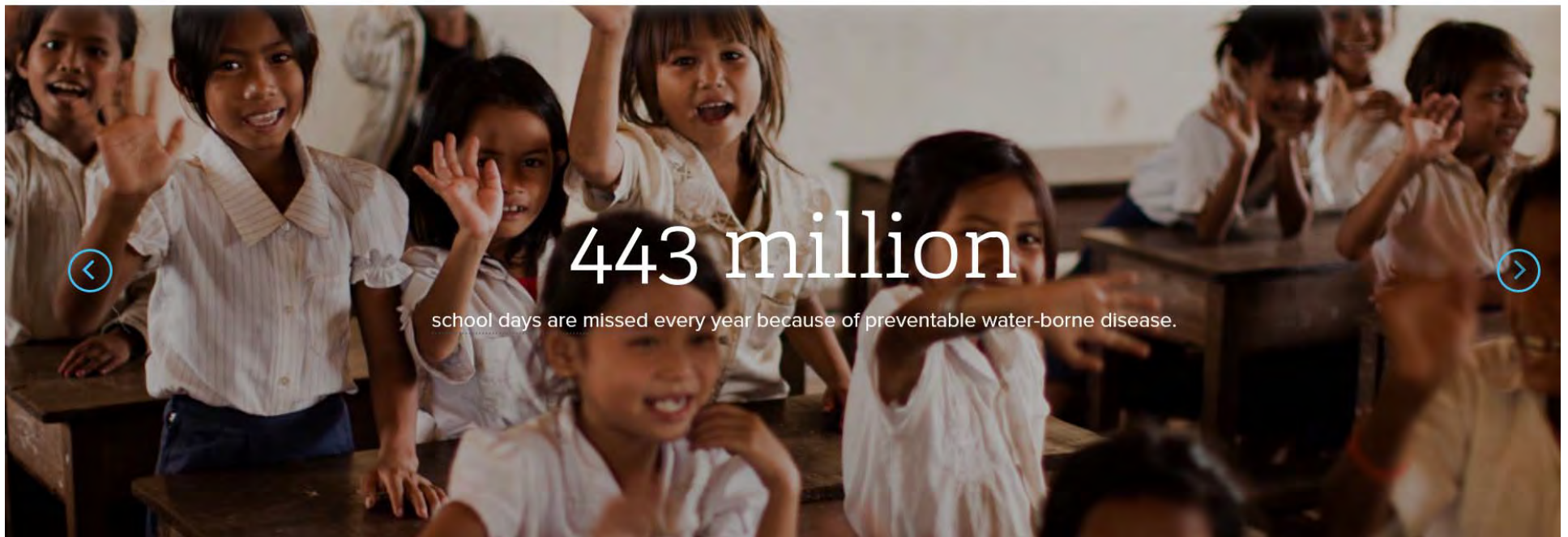
Simple | Benefits in context | Memorable | Visual personal connection | Emotional | Impact



[The Water Crisis](#) [Our Approach](#) [Current Projects](#) [Get Involved](#)

[GIVE A WELL](#)

[GIVE WATER](#)



443 million

school days are missed every year because of preventable water-borne disease.



WHAT STICKS FOR CENTRAL COAST?

IDEAS FROM THE WORKSHOP...

What can we learn from the past?

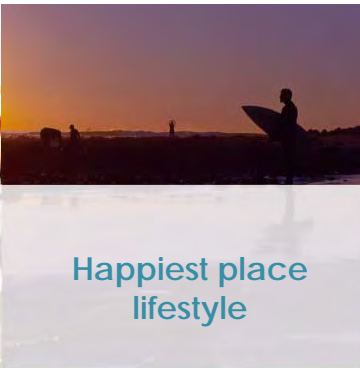
Collaboration | Stewardship | Vision for Future



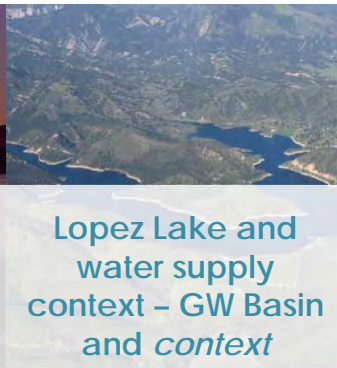
What sticks NOW....



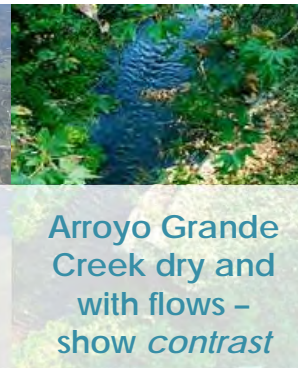
Amazing technology, engineering



Happiest place lifestyle



Lopez Lake and water supply context - GW Basin and context



Arroyo Grande Creek dry and with flows - show contrast



Cost of water independence - show contrast



Unique community character

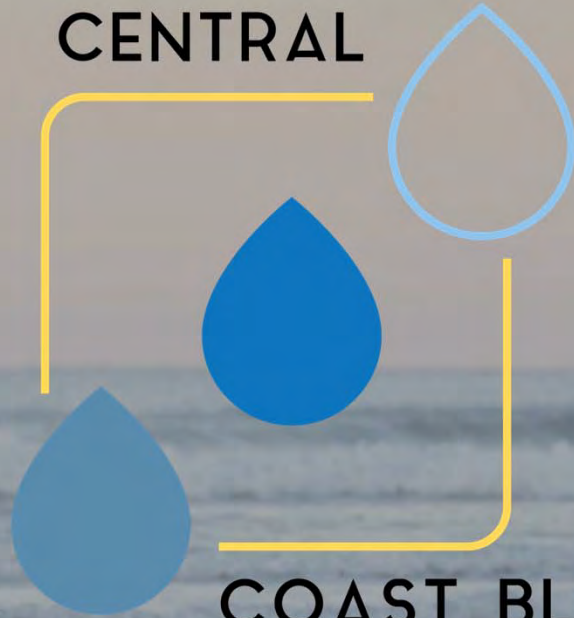
Why is RGSP important for the future?



WORDS THAT “STUCK” FOR FIVE CITIES IDENTIFIED IN KICK-OFF MEETING

New Water
Renew Water
Local Control
5 Cities. 1 Water
Water
Tomorrow
H2O
Quality of Life
Quality Central Coast
Water Life
Thrive
Preserve
Independence
Proactive
Play Together
Enhance
Craftmanship
Resilience
Gold

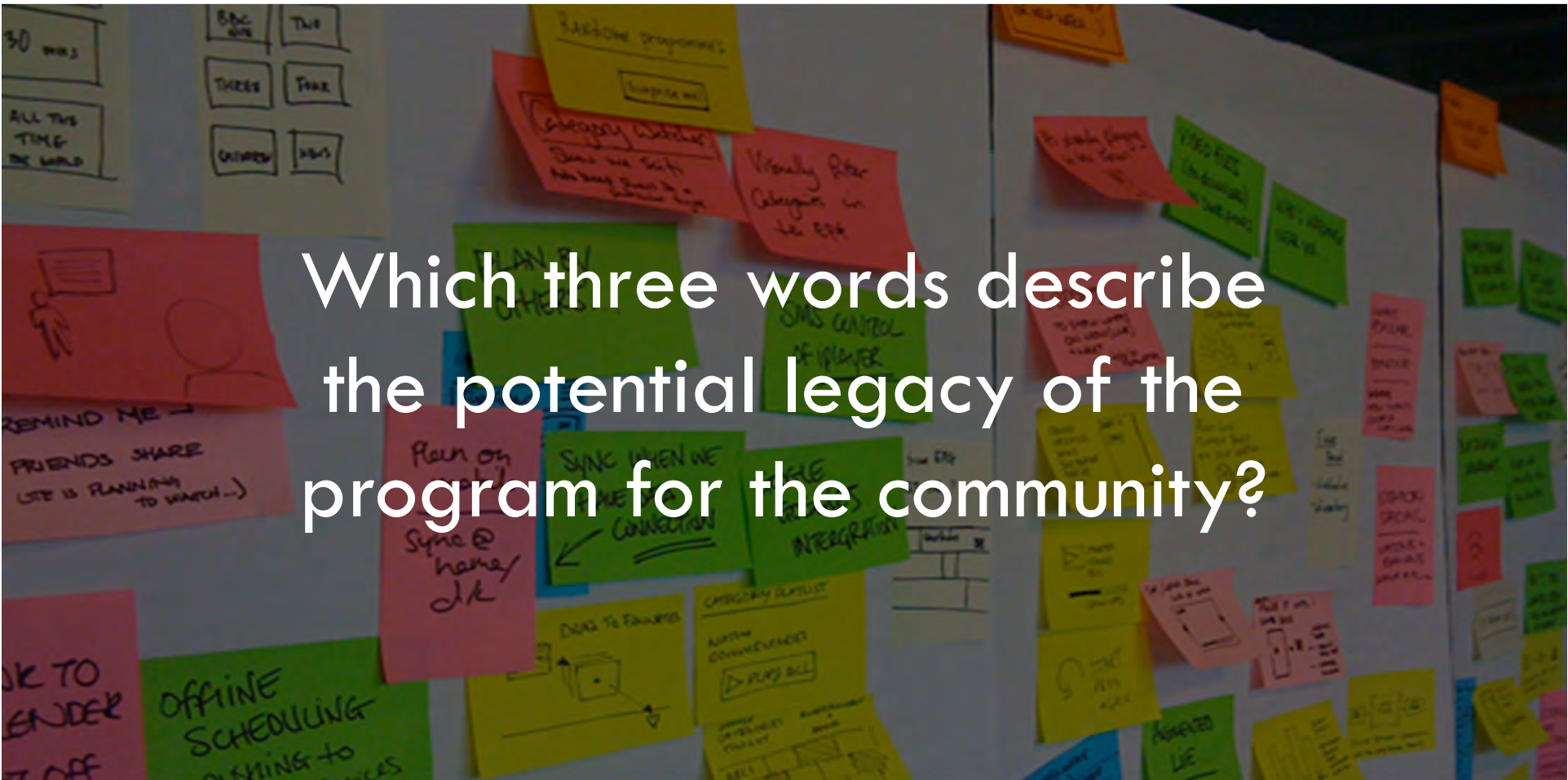
CENTRAL



COAST BLUE





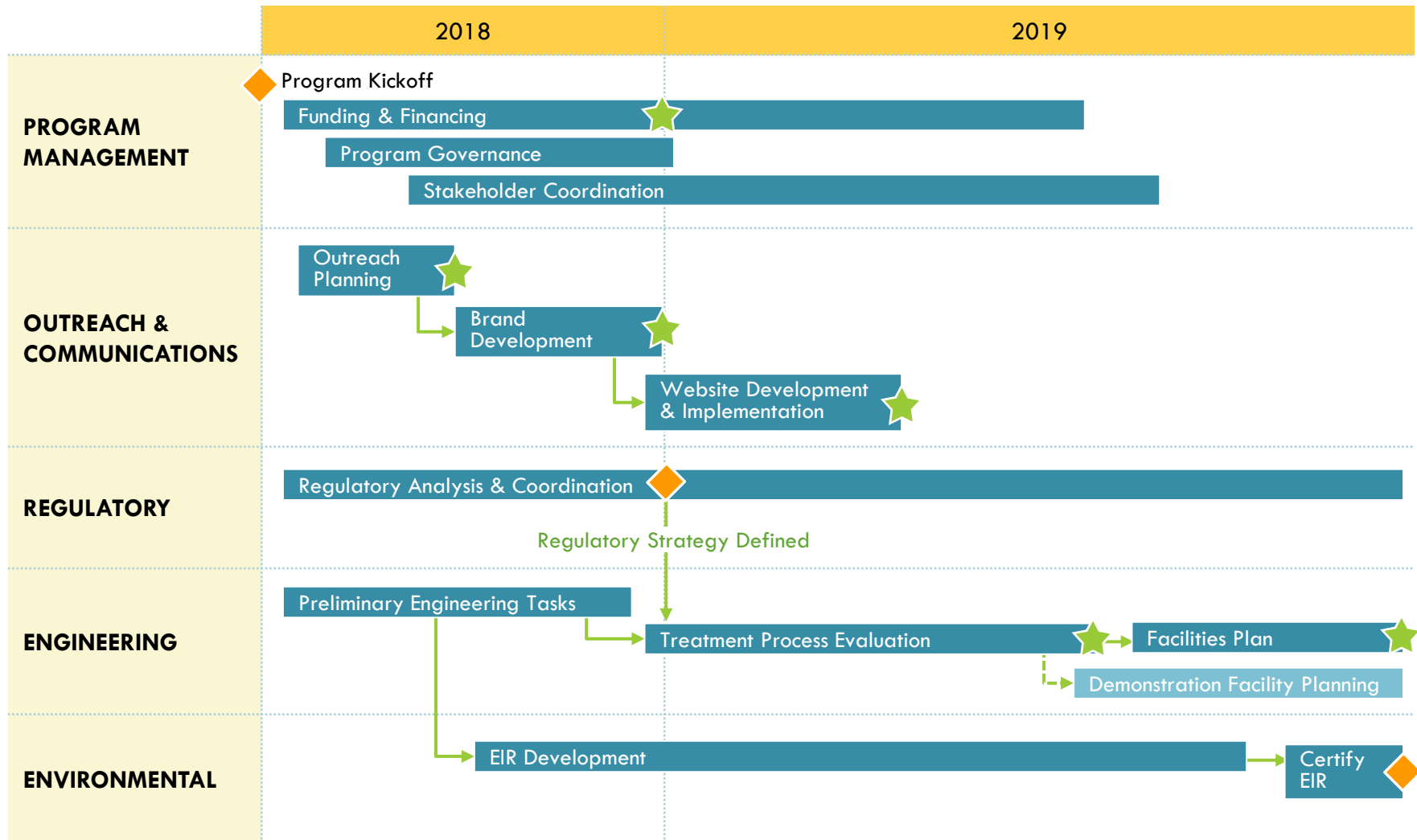
START COMMUNITY CONNECTION WITH THE RIGHT QUESTIONS



Which three words describe the potential legacy of the program for the community?

PHASE 1 ACTIVITIES

-  Board Check in
-  Targeted Milestone



ONE WATER MULTI-BENEFIT APPROACH MEETS FEDERAL, STATE AND LOCAL GOALS

REGIONAL LEADERSHIP ALIGNS WITH STATE PRIORITIES

According to the California Water Action Plan and the SRF Intended Use Plan...



INTEGRATED REGIONAL WATER MANAGEMENT IMPLEMENTATION GRANT



Potential Funding: **\$63 million**
total grant available to Santa Ana
region

Timing: Applications due **April 2019**
Grants awarded 2019

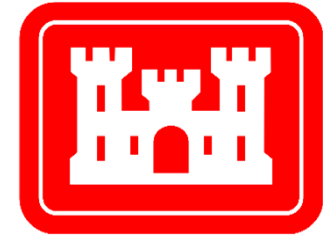
Program Priorities

- ✓ Increase regional self-reliance
- ✓ more reliable water supplies
- ✓ prepare for dry periods
- ✓ restore and enhance ecosystems

CAPTURE PLAN

- Continue engagement with SAWPA groups to stay updated on the DWR process, influence prioritization process and make stakeholders aware of the benefits
- Complete CEQA/NEPA document to improve funding probability
- Seek designated DAC funding through SAWPA

ARMY CORPS SECTION 219 FUNDING ASSISTANCE



Potential Funding: **\$15 Million**
in federal assistance authorized in
2007 WRDA

Timing: Initial funds need to be
allocated **this year**

Program Priorities

- Build a strong and stable community
- Protect and restore the environment
- Energize the economy by improving recreational opportunities

CAPTURE PLAN

- Continue communication with local Army Corps office to update them on project progress and request funding availability updates
- If funding becomes available, collaborate with Army Corps staff to determine how they will engage

TITLE XVI WATER RECLAMATION AND REUSE PROJECTS



Potential Funding: Approx. **\$11 Million** (25% of Project Cost)

Timing: Typically accept applications **annually from May to July**

Program Priorities

- Flexibility and sustainability during water shortages
- reclamation and reuse of wastewaters

CAPTURE PLAN

- Prepare a Title XVI Feasibility Study and get USBR approval by the end of 2018
- Apply for Title XVI Construction Funding during 2019 cycle

USDA RD WATER & WASTE DISPOSAL LOAN AND GRANT PROGRAM



Potential Funding: **Low interest loans** (2-4% for 40 years), **partial grant possible**

Timing: Applications accepted year-round, annual funding cycle begins each **September**

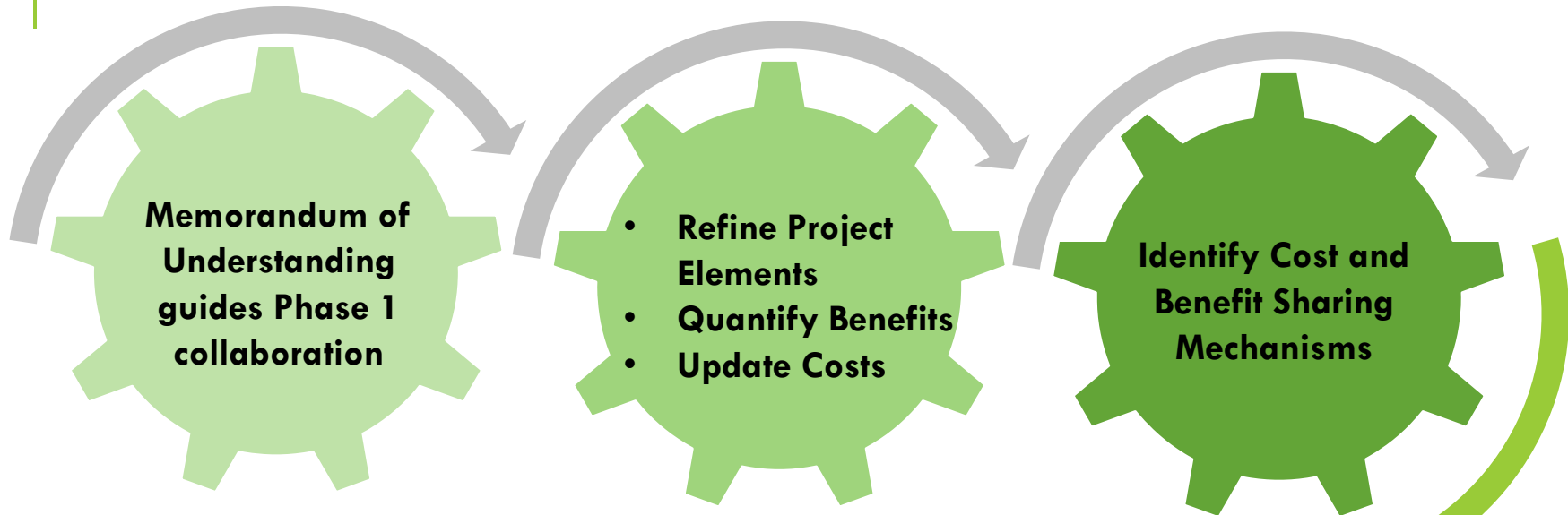
Program Priorities


- Clean and reliable drinking water
- sanitary sewage disposal
- water and energy efficiency and sustainability

CAPTURE PLAN

- Prepare a Preliminary Engineering Report
- Complete CEQA/NEPA document to finalize loan application

PROGRAM GOVERNANCE



 **Cost Sharing Considerations and Payment Methods**

Cost Sharing Considerations:

- Capital vs. O&M cost
- Wastewater vs. Water
- Variable vs. Fixed Cost/Allocation
- Types of Agreement (Purchase, Exchange, etc.)
- Phasing

Benefit Sharing:

- Water Supply
- Community/Recreation

Property Taxes

COLLABORATION AMPLIFIES ONE WATER BENEFITS



Thank You!

