



CALIFORNIA BACTERIA SUMMIT

SEPTEMBER 14-16, 2022

AGENDA ITEM #1: WELCOME AND OPENING

Jonathan Bishop: State Water Board

Karen Cowan: CASQA



THANK YOU

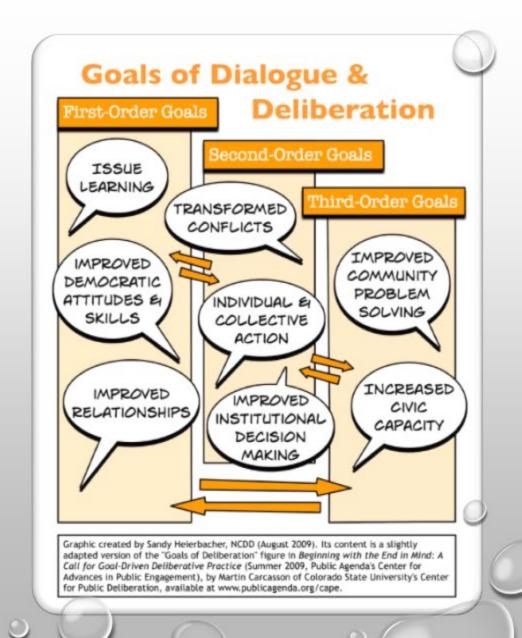


WHY ARE WE HERE IN A SUMMIT?

SHARED GOALS:

Waters that are safe to swim; Shellfish that are safe to eat

- DIALOGUE AND DELIBERATION (COLLABORATION)
 TO GET US TO OUR GOALS
- SOLUTIONS / COLLECTIVE ACTION



WHY BACTERIA? ASSESSMENT PRIORITY FOR THE STATE

2018 Adoption of the Statewide Bacteria Provisions (State Water Board)

Resolution commits State
Water Board staff to
"continued assessment of
pathogen indicators and
their implementation,
accounting for risk,
salinity, and Californiaspecific studies"

2019 Ocean Plan Review and Work Plan (State Water Board)

 High priority project: Shellfish beneficial uses and water quality objective

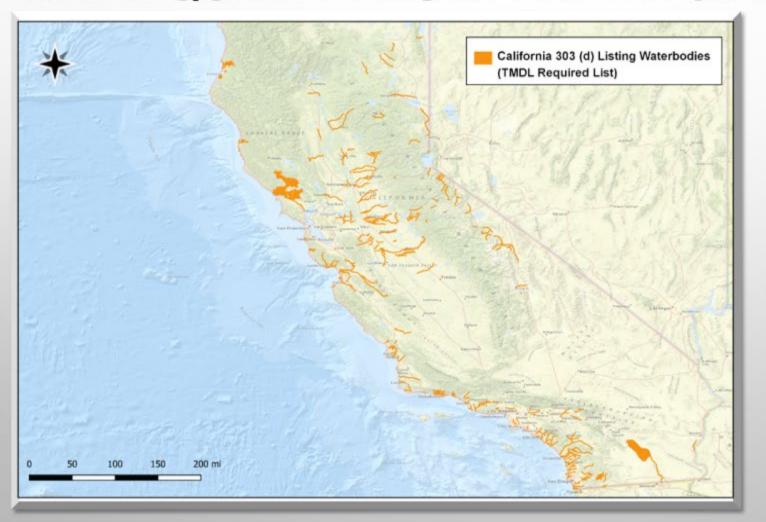
WHY BACTERIA? WATER QUALITY PRIORITY AT THE STATEWIDE SCALE

CASQA Water	Quality Priority As	sessment (2019)	
CASQA Membership Survey	303(d) List	TMDLs	
membership corvey			EPA Decision
WQIP Water Quality Priority (MS4s in Region 9)	(E)WMP Limiting Pollutant (MS4s in Region 4)	Water Quality Priority (MS4s in Region 5	Making Tool
Regional Board Triennial Reviews	Statewide Policy / Regulation / Program	Primary or Secondary MCL	
Professional Judgement / Research Findings			

Bacteria

Trash Current Use Pesticides Biointeg / Biostim

WHY BACTERIA? WATER QUALITY PRIORITY AT THE STATEWIDE SCALE



303(d) Listed Waterbodies



IN ALPHA ORDER...

- CONFINED ANIMALS
- DOMESTIC ANIMALS/LIVESTOCK
- GRAZING
- ILLEGAL DUMPING
- NATURAL SOURCES

- ONSITE WASTEWATER SYSTEMS (SEPTIC TANKS)
- STORMWATER RUNOFF
- TRANSIENT ENCAMPMENTS
- WASTEWATER & LEAKING SEWERS

... AND MORE

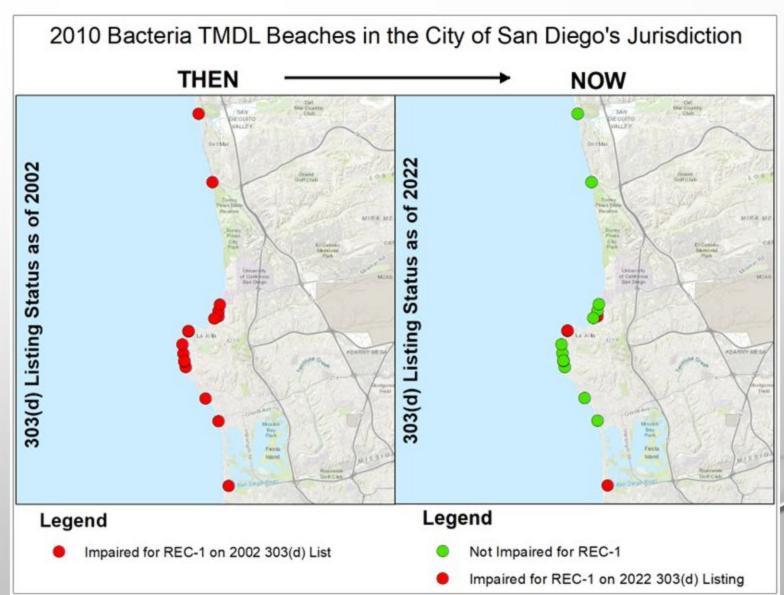


WHAT PROGRESS HAS BEEN MADE?



CITY OF SAN DIEGO:

SIGNIFICANT REDUCTION IN 303(D) LISTINGS





WHAT PROGRESS HAS BEEN MADE?

LOS ANGELES COUNTY

- 41 DRY WEATHER DIVERSIONS
- DRY WEATHER
 EXCEEDANCES HAVE
 BEEN REDUCED BY
 70% OVER THE PAST
 18 YEARS
- WET WEATHER
 DIVERSION PROJECTS
 IN PLANNING PHASE



WHAT PROGRESS HAS BEEN MADE?

SOUTH ORANGE COUNTY: TMDL LOAD REDUCTIONS

- REDUCTIONS IN BACTERIAL LOADINGS FROM 2003 TO 2020
 - TOTAL COLIFORM:

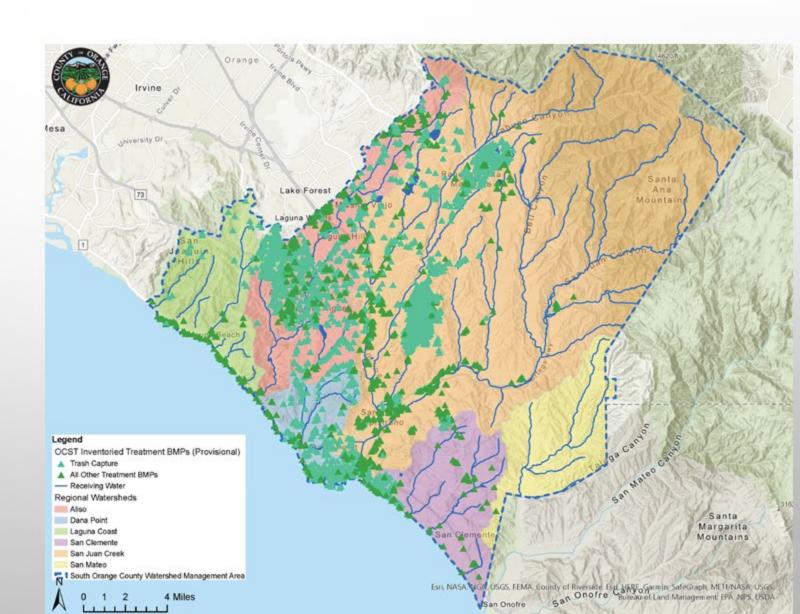
92.2%

FECAL COLIFORM:

95.3%

ENTEROCOCCUS:

95.7%



WHAT PROGRESS HAS BEEN MADE? WHAT ARE THE SUCCESS STORIES?

5 YEAR AVERAGE	Summer Dry		Winter Dry		Wet Weather	
GRADE	#	%	#	%	#	%
A	401	88%	293	81%	219	49%
В	32	7%	31	8%	48	11%
С	12	3%	17	5%	31	7%
D	6	1%	6	2%	30	7%
F	8	2%	15	4%	119	27%
A+B	432	94%	324	90%	266	60%
C,D,F	26	6%	38	10%	180	40%

Heal the Bay Beach Report Card: 2021-2022



WHAT ARE THE CHALLENGES?



Pathogen Indicator



Objectives



Sources / Pathways



SHELL & REC



Resources



WHY IT MATTERS

SHARED GOALS:

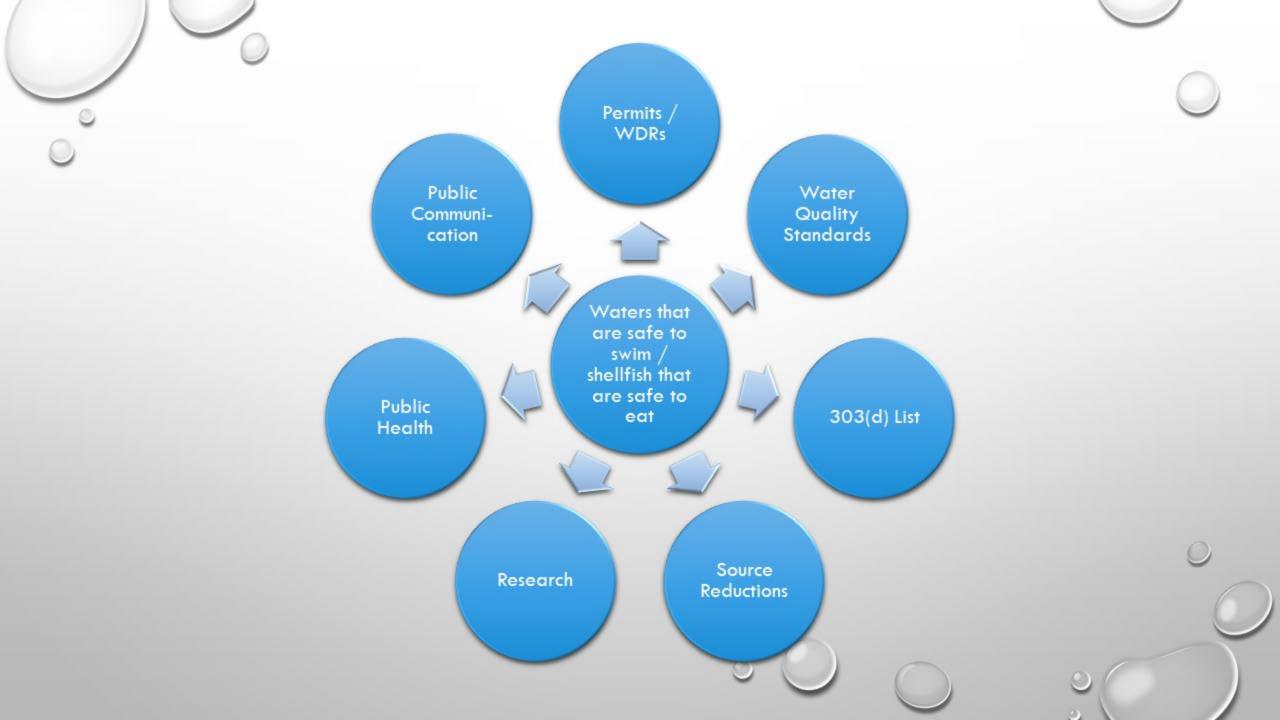
Waters that are safe to swim; Shellfish that are safe to eat

Will our actions result in achieving our goals?

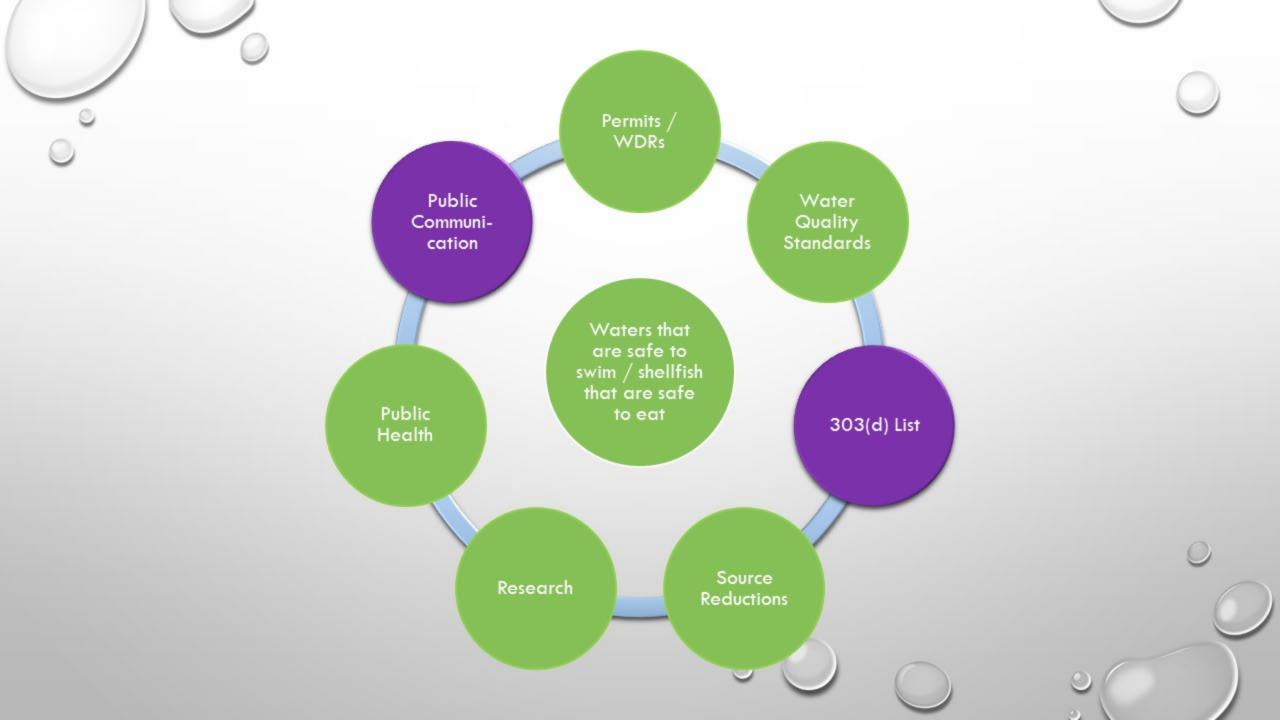
Requires Significant Investment:

Infrastructure, research, regulations, permits, public health notices, etc.

Compliance schedules and permit requirements





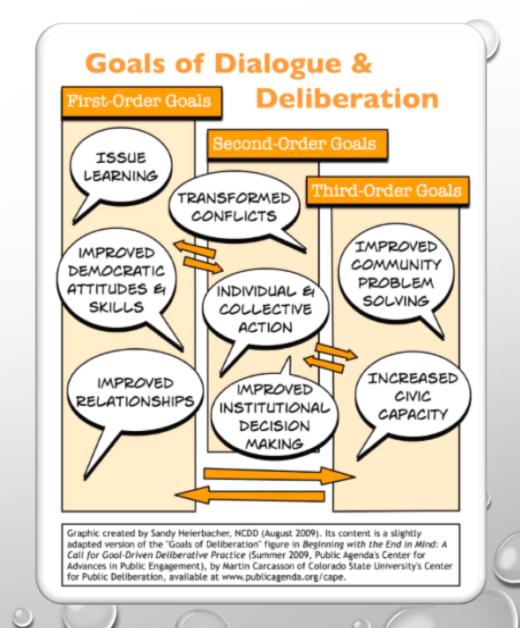


WHAT DO WE HOPE TO

- ISSUE LEARNING AND IMPROVED RELATIONSHIPS
 - BUILD A TEAM OF ENGAGED AND COLLABORATIVE PROBLEM SOLVERS
- PRIORITY ACTIONS (INDIVIDUAL AND COLLECTIVE)
 - LONG-TERM TO ACHIEVE OUR GOALS
 - SHORT-TERM TO ALIGN WITH LONG-TERM GOALS



Waters that are safe to swim Shellfish that are safe to eat







WHAT ARE THE CHALLENGES?

Objectives

- Fundamentally different than most Water Objectives (WQOs)
- Indicator of risk, rather than direct measurement (presence / absence)
- Evolution and application of scientific understanding related to risk

Sources / Pathways

- Sources of indicators / Sources of risk
- Wet Weather

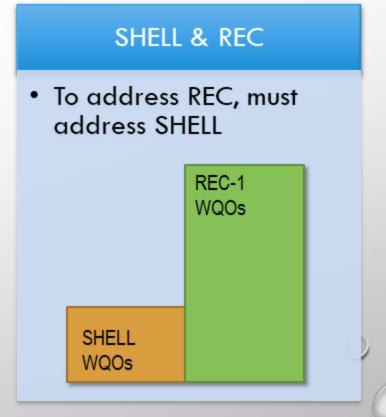
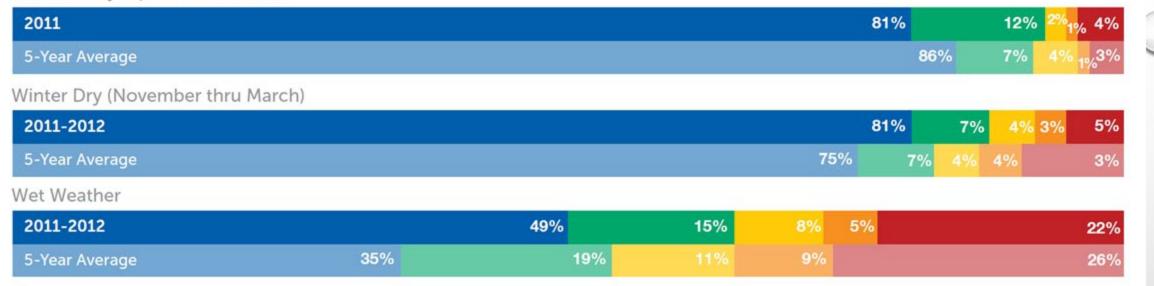


FIGURE 1-1: OVERALL CALIFORNIA GRADES

Summer Dry (April thru October)



5 YEAR AVERAGE	Summer Dry		Winter Dry		Wet Weather	
GRADE	#	%	#	%	#	%
A	401	88%	293	81%	219	49%
В	32	7%	31	8%	48	11%
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