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 California-specific 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**

<table>
<thead>
<tr>
<th>CASQA Water Quality Priority Assessment (2019)</th>
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</thead>
<tbody>
<tr>
<td><strong>CASQA Membership Survey</strong></td>
</tr>
<tr>
<td>303(d) List</td>
</tr>
<tr>
<td>TMDLs</td>
</tr>
<tr>
<td><strong>WQIP Water Quality Priority</strong></td>
</tr>
<tr>
<td>(MS4s in Region 9)</td>
</tr>
<tr>
<td>(E)WMP Limiting Pollutant</td>
</tr>
<tr>
<td>(MS4s in Region 4)</td>
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<tr>
<td>Water Quality Priority</td>
</tr>
<tr>
<td>(MS4s in Region 5)</td>
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<tr>
<td><strong>Regional Board Triennial Reviews</strong></td>
</tr>
<tr>
<td>Statewide Policy / Regulation / Program</td>
</tr>
<tr>
<td>Primary or Secondary MCL</td>
</tr>
<tr>
<td><strong>Professional Judgement / Research Findings</strong></td>
</tr>
</tbody>
</table>

#### EPA Decision Making Tool
- Bacteria
- Trash
- Current Use Pesticides
- Biointeg / Biostim
WHY BACTERIA?
WATER QUALITY PRIORITY AT THE STATEWIDE SCALE

303(d) Listed Waterbodies
WHAT ARE THE POTENTIAL SOURCES (E.G. PATHWAYS)?

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?

<table>
<thead>
<tr>
<th>5 YEAR AVERAGE</th>
<th>Summer Dry</th>
<th>Winter Dry</th>
<th>Wet Weather</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>#</td>
<td>%</td>
<td>#</td>
</tr>
<tr>
<td><strong>GRADE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>401</td>
<td>88%</td>
<td>293</td>
</tr>
<tr>
<td>B</td>
<td>32</td>
<td>7%</td>
<td>31</td>
</tr>
<tr>
<td>C</td>
<td>12</td>
<td>3%</td>
<td>17</td>
</tr>
<tr>
<td>D</td>
<td>6</td>
<td>1%</td>
<td>6</td>
</tr>
<tr>
<td>F</td>
<td>8</td>
<td>2%</td>
<td>15</td>
</tr>
<tr>
<td><strong>A+B</strong></td>
<td>432</td>
<td>94%</td>
<td>324</td>
</tr>
<tr>
<td><strong>C,D,F</strong></td>
<td>26</td>
<td>6%</td>
<td>38</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Will our actions result in achieving our goals?</th>
<th>Requires Significant Investment:</th>
<th>Compliance schedules and permit requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Infrastructure, research, regulations, permits, public health notices, etc.</td>
<td></td>
</tr>
</tbody>
</table>
Waters that are safe to swim / shellfish that are safe to eat

- Permits / WDRs
- Water Quality Standards
- Waters that are safe to swim / shellfish that are safe to eat
- 303(d) List
- Source Reductions
- Research
- Public Health
- Public Communication
Waters that are safe to swim / shellfish that are safe to eat

Permits / WDRs

Water Quality Standards

303(d) List

Source Reductions

Research

Public Communication

Public Health
WHAT DO WE HOPE TO ACHIEVE?

• **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