Overview

- What is a Basin Plan Triennial Review?
- Water Board staff review of issue areas
  - Priority projects from last triennial review
  - Review of beneficial uses
  - Review of water quality objectives
  - Updates to the implementation plan
  - Updates to plans and policies
- Discussion and next steps
What is a Basin Plan?

Master Planning Document for Water Board

- **Regulatory**
  - Beneficial uses, water quality objectives
  - Implementation plan [effluent limits, discharge prohibitions, permit programs, TMDLs]

- **Information**
  - Maps, tables, plans and policies, program descriptions, and related regulations
What is a Triennial Review?

- Clean Water Act Section 303(c)(1): *a state’s water quality standards shall be reviewed every three years*

- Planning Workplan (non-TMDL)

- Elements of the review process:
  - Attainability of existing standards and associated implementation programs
  - Indicators of environmental degradation and need for additional protection
  - Regulatory implementation program updates
What is a Triennial Review? (cont.)

- Formal process for interested parties to provide input to the Water Board workplan for Basin Planning

- Interested parties include:
  - The public: organizations and individuals
  - California Native American tribes
  - Regulated community
## Review of 2015 Workplan

<table>
<thead>
<tr>
<th>Project</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review and Refine Dissolved Oxygen Objectives for San Francisco Bay</td>
<td>Suisun Marsh TMDL completed</td>
</tr>
<tr>
<td></td>
<td>Additional work ongoing</td>
</tr>
<tr>
<td>Climate Change and Water Resources Policy</td>
<td>Work ongoing</td>
</tr>
<tr>
<td>Using Wastewater to Create, Restore, and Enhance Wetlands</td>
<td>Work ongoing</td>
</tr>
</tbody>
</table>
## Review of 2015 Workplan

<table>
<thead>
<tr>
<th>Project</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop Numeric Nutrient Endpoints (NNEs) in Freshwater Streams and Estuaries</td>
<td>Work ongoing</td>
</tr>
<tr>
<td>Develop Nutrient Water Quality Objectives for San Francisco Bay Estuary – Support Implementation of the Nutrient Management Strategy</td>
<td>Work ongoing</td>
</tr>
<tr>
<td>Lake Merced Dissolved Oxygen and pH Objectives</td>
<td>Project delayed</td>
</tr>
<tr>
<td>Miscellaneous Changes – corrected beneficial use abbreviations, updated and corrected footnotes to several tables in Chapter 3</td>
<td>Completed as part of Suisun Bay TMDL</td>
</tr>
</tbody>
</table>
2018 Triennial Review Topics

- Update beneficial uses
- Update water quality objectives
- Update implementation plan
- Update plans and policies
- Minor editorial revisions
Update Beneficial Uses

- Add unnamed water bodies receiving discharges
  - Some waters in NPDES permits, but not in Basin Plan
- Addition of sportfishing (COMM) use to lakes
  - COMM is impaired when fish not safe to eat
- Align Ocean Plan and Basin Plan relative to REC1
  - Basin Plan lacks detail about REC1 applicability to ocean
Update Beneficial Uses (cont.)

- Stream & wetland protection project
  - Add clarity to implementation chapter to protect systems
- Modification of groundwater sub-basin boundaries
  - Aim is to achieve consistency with DWR Bulletin 118
- Designate new tribal and subsistence fishing uses
  - Need to document use for specific waterbodies
Update Water Quality Objectives
Statewide and Federal Objectives

- Update toxicity testing requirements
- Revise pentachlorophenol WQ objectives
- Develop numeric nutrient endpoints (freshwater and estuaries)
- Incorporate U.S. EPA REC bacteria criteria
Update Water Quality Objectives
Statewide and Federal Objectives (cont)

- Review un-ionized ammonia objective for SF Bay
- Incorporate statewide mercury objectives into Basin Plan
- Consider incorporating U.S. EPA 304(a) criteria
Update Water Quality Objectives

Regional Issues

- Review site-specific oxygen objectives for SF Bay
  - Extend Suisun Marsh approach elsewhere
- Implement stream biological assessment tools
  - Work on region-specific biological metrics
- Lake Merced dissolved oxygen and pH objectives
  - Site-specific objectives for urban SF lake
Update Water Quality Objectives
Regional Issues (continued)

- Clarify implementation requirements for municipal and agricultural water supply
- Temperature limits for salmonids
- Develop flow criteria
Update Implementation Plans

- Screening levels for groundwater cleanup
  - Would focus attention on significant contaminant concerns

- Use wastewater to create, restore, and enhance wetlands
  - Existing policies and permitting issues currently impede use

- Update cyanide dilution credits
  - Develop dilution credit for currently missing waterbodies

- Revise instantaneous chlorine limit for wastewater
  - Change to a water-quality based limit
  - Some project scoping has already begun
### Update Plans and Policies

**TMDL Projects we are working on**

- Petaluma River Bacteria
- San Gregorio Creek Sediment
- Stevens Creek Toxicity
- San Francisco Bay Beaches (additional beach listings)
- Pescadero Marsh Dissolved Oxygen
- Pillar Point Harbor Bacteria
- Statewide Mercury Control Program in Reservoirs
Climate change and water resources policy

- Examining 3 policy areas:
  - Regulating wetland fill, ecosystem restoration and flood protection intelligently in consideration of sea level rise;
  - Using highly-treated wastewater and stormwater in tidal marshes
  - Beneficial re-use of sediment
- Future project phases could explore other needed Basin Plan changes
Minor Editorial Revisions

- Clarify turbidity water quality objective
  - Make language easier to interpret & consistent with turbidity objectives in other Basin Plans.

- Other editorial changes
  - Update discussion related to discharges to Areas of Special Biological Significance
  - Update section on urban stormwater implementation
  - Update non-regulatory language on WWTPs
Next Steps

- Written feedback due **Friday June 8**
  - Email to Rlooker@waterboards.ca.gov
- Meeting summary posted to website
- We develop ranked priority project list
- Board hearing on workplan in fall 2018
Your turn to give feedback

- Please raise hand to speak
  - Moderator will recognize you
- Please state name and affiliation for notes
- Consider feedback on:
  - Your support or opposition to projects
  - Changes to scope of existing projects
  - Suggestions for additional projects