

WATER QUALITY ASSESSMENT AND 2008 303(d) LIST OF IMPAIRED WATER BODIES

Adoption Hearing

February 11, 2009

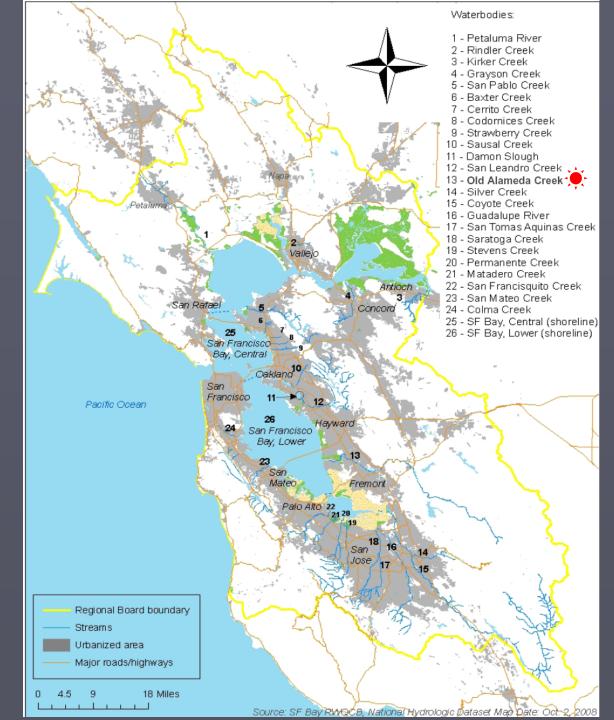
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2008 303(d) Chronology

- Public solicitation (December '06)
 - 16 submittals (February '07)
- Draft Report (October '08)
 - 26 comment letters (December '08)
- Testimony Hearing (January 2009)
- Report revisions, response to comments, and Board approval (today)
- State Board action (later in 2009)

Additions to 303(d) List

26 Trash Listings
24 streams
2 shoreline areas





San Rafaei

San

Francisco

lallejo

Oaklar

Mateo

Palo Alto Antioch

6

Livermore

Fremon

10 San

Jose

Hayward

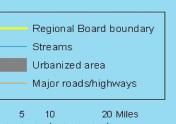
Waterbodies 1 - Suisun Creek 2 - Kirker Creek 3 - Mt. Diablo Creek 4 - Codornices Creek 5 - San Leandre Creek 6 - Arroyo Las Positas (0 7 - Arroyo Mocho Creek 8 - Almaden Reservoir 9 - Almaden Lake 10 - Stevens Creek 11 - Permanente Creek 12 - San Mateo Creek

9

Solano County: Suisun - dissolved oxygen, temperature Contra Costa County: Mt. Diablo - water toxicity Kirker water toxicity/pyrethroids Alameda County: Codornices - temperature San Leandro - chromium VI Arroyo Las Positas eutrophication Arroyo Mocho - temperature Santa Clara County: Almaden Lake & Reservoir mercury Stevens - temperature Permanente - selenium, water toxicity

San Mateo County: San Mateo - **sediment toxicity**





Source: SF Bay RWQCB, National Hydrologic Dataset Map Date: Qc

Key Comments

Spatial Representation of (Trash) Data
Need a Trash Sampling Plan
Photographic Evidence for Trash
Scientific Integrity of Trash Assessment
Trash Control Underway, No Need to List

Spatial Representation of Data

- Nearly all listings based on evidence at multiple locations
- Listing does not mean that every inch is impaired, but...
 Trash is often transported from upstream locations, and
 Likely upstream impacted locations not surveyed
- Listing only where data available now (e.g., discrete 100foot creek sections) not practical
- Refine listings in future as data become available

Must Have Sampling Plan

- Listing Policy provides guidance to identify high quality data
- Sampling plan is not required
- Trash assessment method supported by ample documentation:
 - Detailed method description
 - Case studies
 - Testing and validation
 - ✤ Peer review

Photo Evidence for Trash

- Systematic application of quantitative trash assessment to photos to determine impairment
- This procedure produces quantifiable data
- Therefore, assessed photos legitimate primary line of evidence

Scientific Integrity of Trash Method

- Trash assessments are reflection of conditions in creeks and shoreline areas
- SWAMP trash assessment evaluated for objectivity, reproducibility, and sensitivity
- Assessment method was peer reviewed
- Trash above high water line impacts beneficial uses, and is transportable

Trash Control Already Underway

- We identified impaired waters based on available data
- We cannot speculate about future conditions
- We cannot defer evaluation until control measures take effect
- Improved conditions can be demonstrated in next listing cycle

Staff Recommendations

- New Listings (26 trash + 14 non-trash listings)
- De-listing of Nickel
 - Sacramento-San Joaquin Delta, San Pablo Bay and Suisun Bay
- Revision of List
 - Castro Cove sediment hot-spot addressed by action other than TMDL