The Regional Monitoring Program for Water Quality in San Francisco Bay: Coordinating with the Proposed National Monitoring Network

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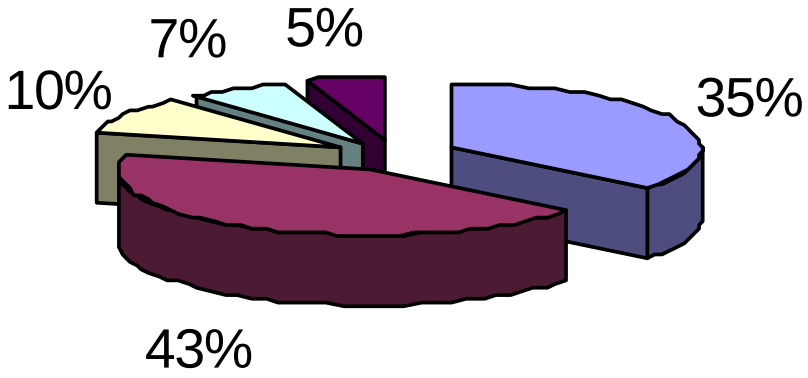
Outline

- Nuts and bolts look at RMP
- Comparison to NMN
- Moving forward

RMP Budget 2005



- Program Management
- Status and Trends Monitoring
- Pilot Studies
- Special Studies
- Set Aside

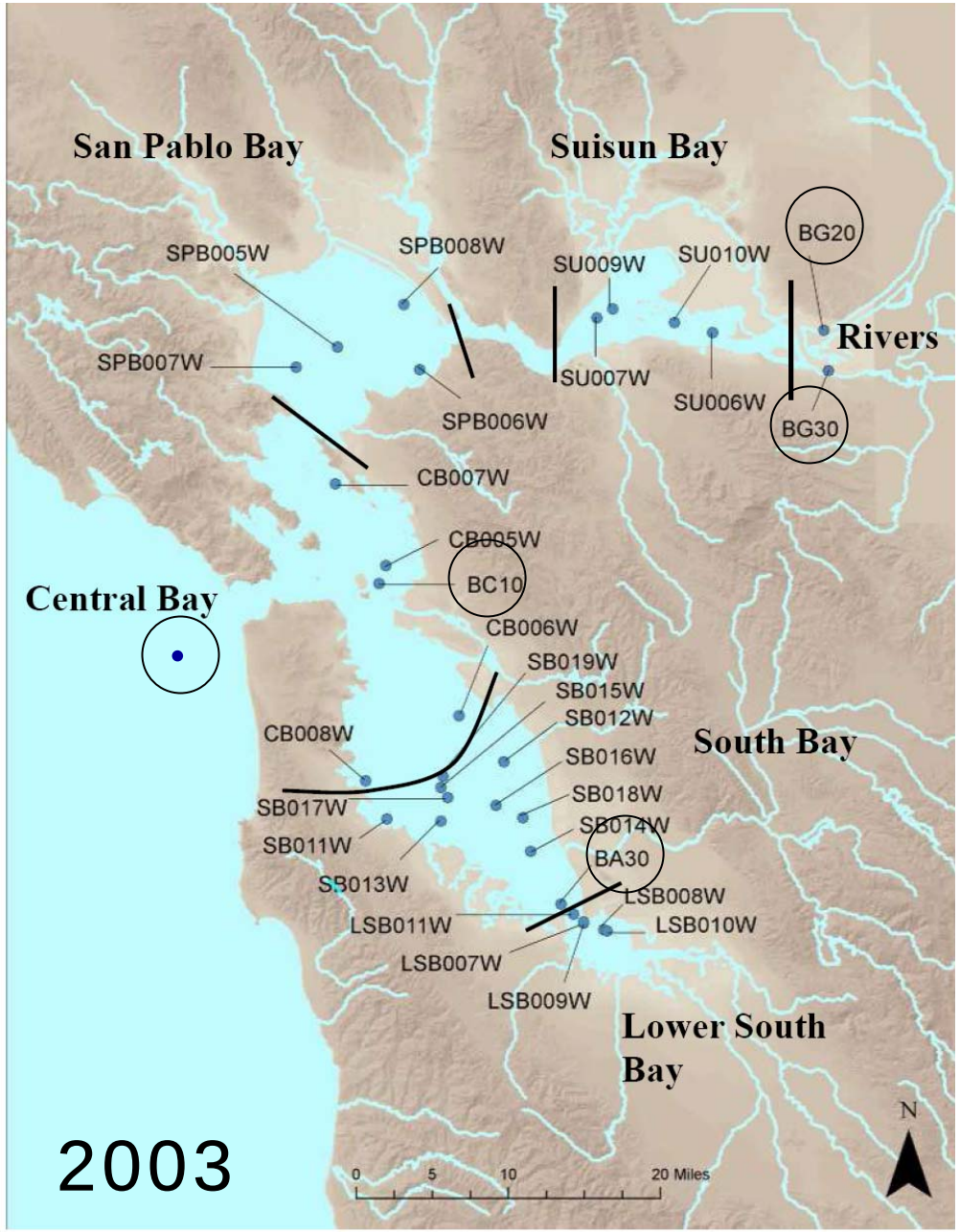
Total budget: $3.1 million

RMP Status and Trends Monitoring

- Water
- Sediment
- Bivalves
- Sport fish
- Bird eggs
- Toxicity testing
- Episodic Toxicity
- Sediment dynamics (USGS)
- Conventional water quality (USGS) – Jim Cloern

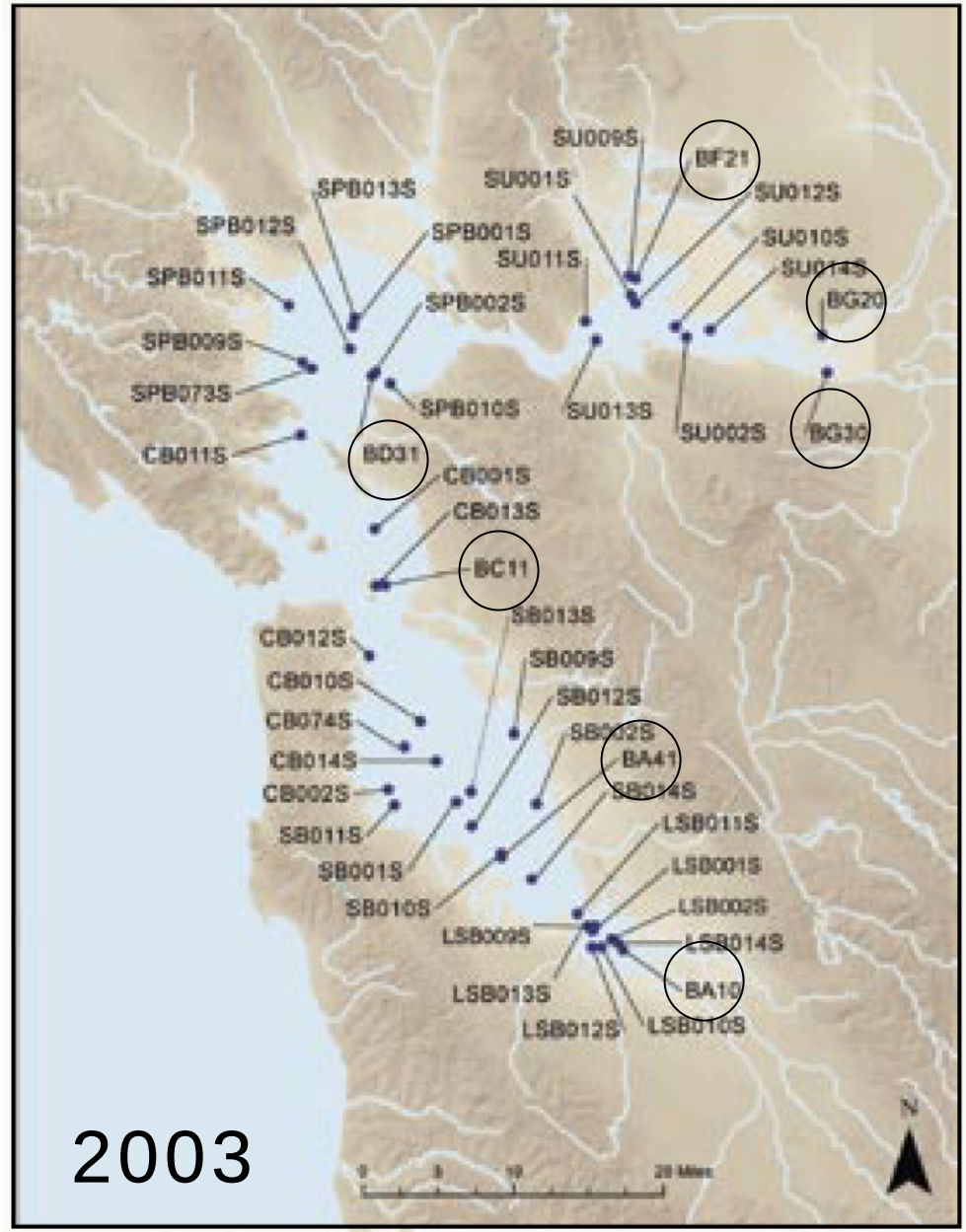
Water Sampling, 2006

- 33 stations
- 28 random (GRTS), revisit some
- 5 fixed historical sites
- Annual
- Segments established by the Regional Board
- Allocation by power analysis
- Metals and organics



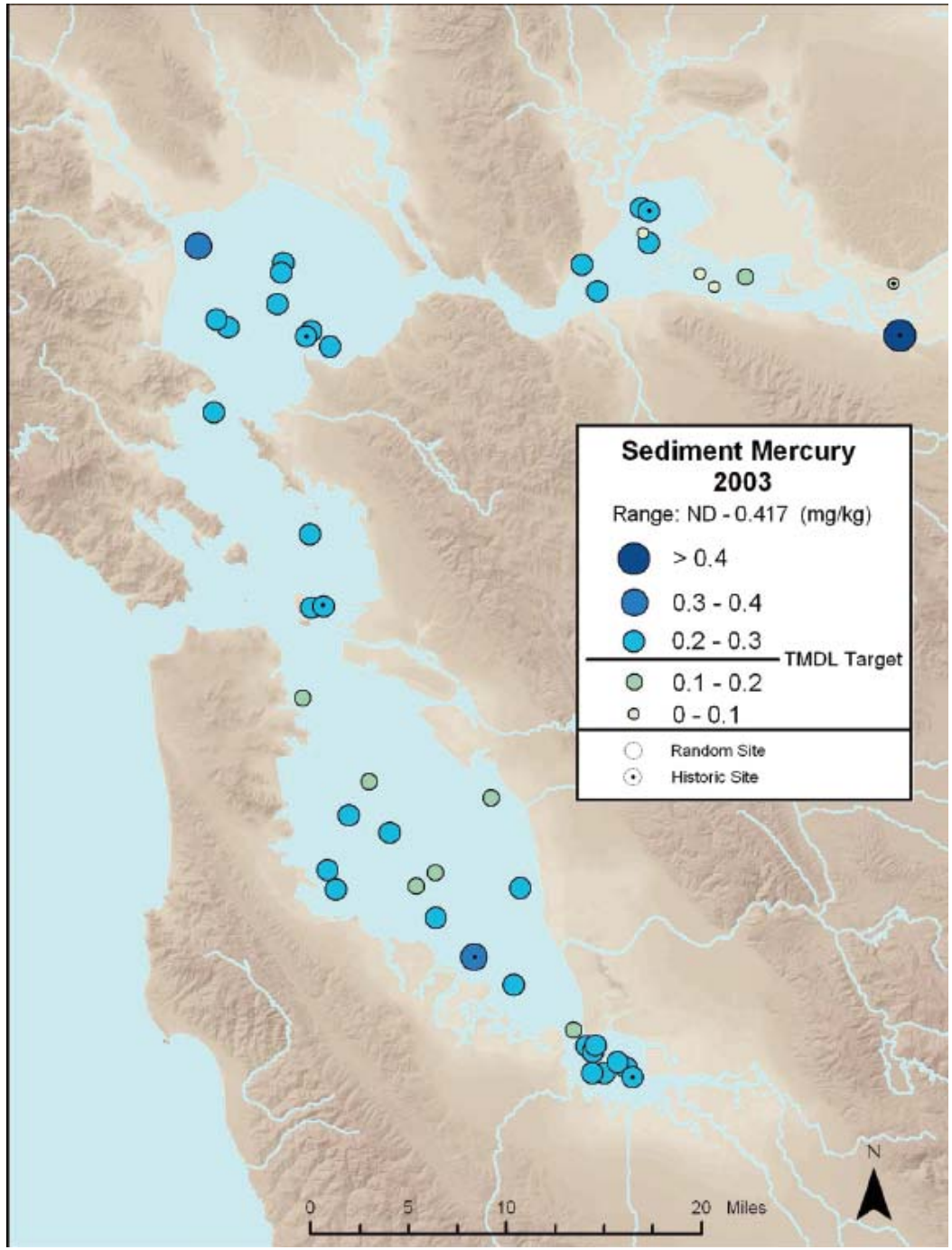
Sediment Sampling, 2006

- 47 stations
- 40 random (GRTS), revisit some
- 7 fixed
- Annual
- Segments established by the Regional Board
- Allocation by power analysis
- Metals and organics



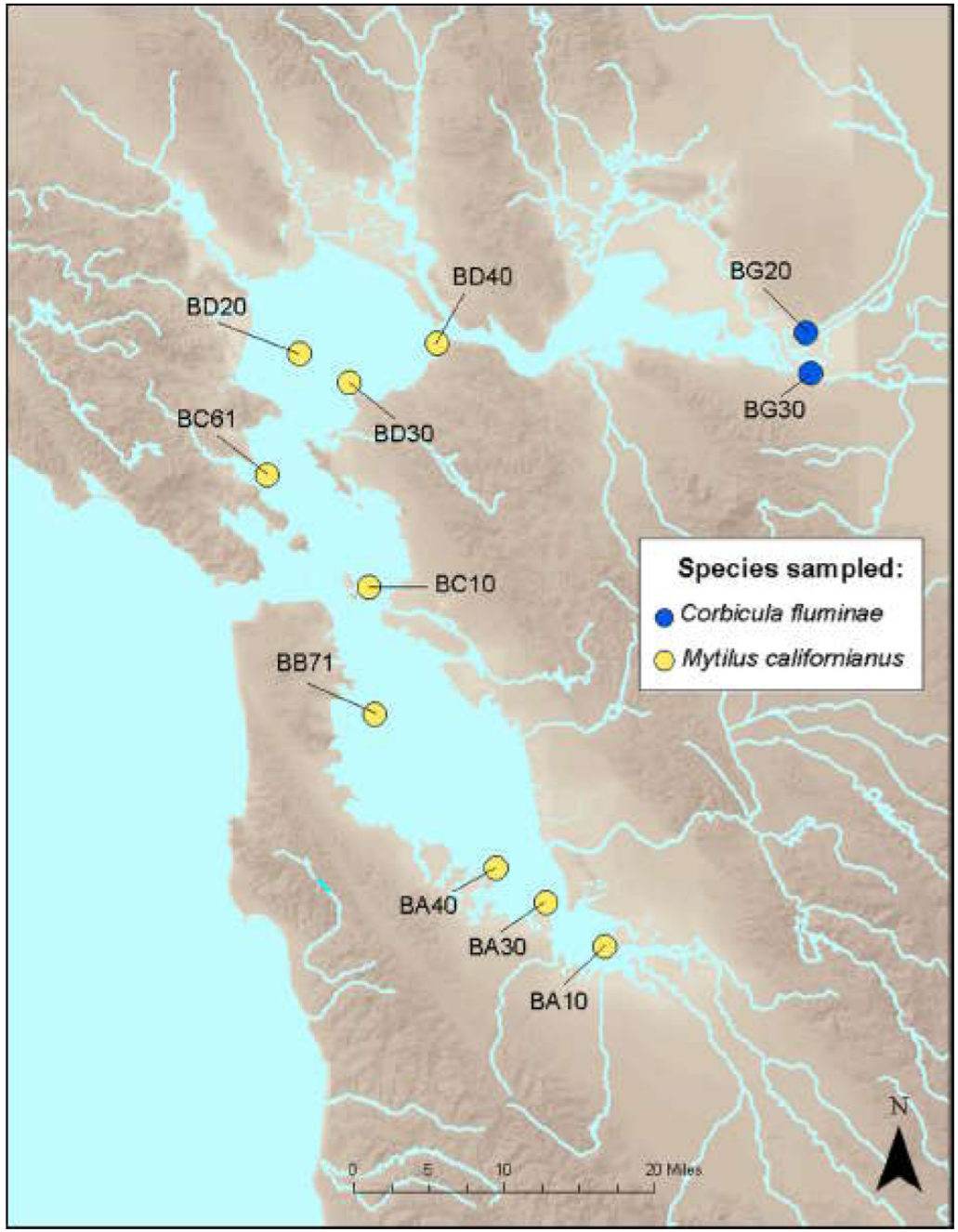
Sediment Mercury, 2003

- Most sites above the TMDL target
- Most between 0.2 and 0.4 ppm



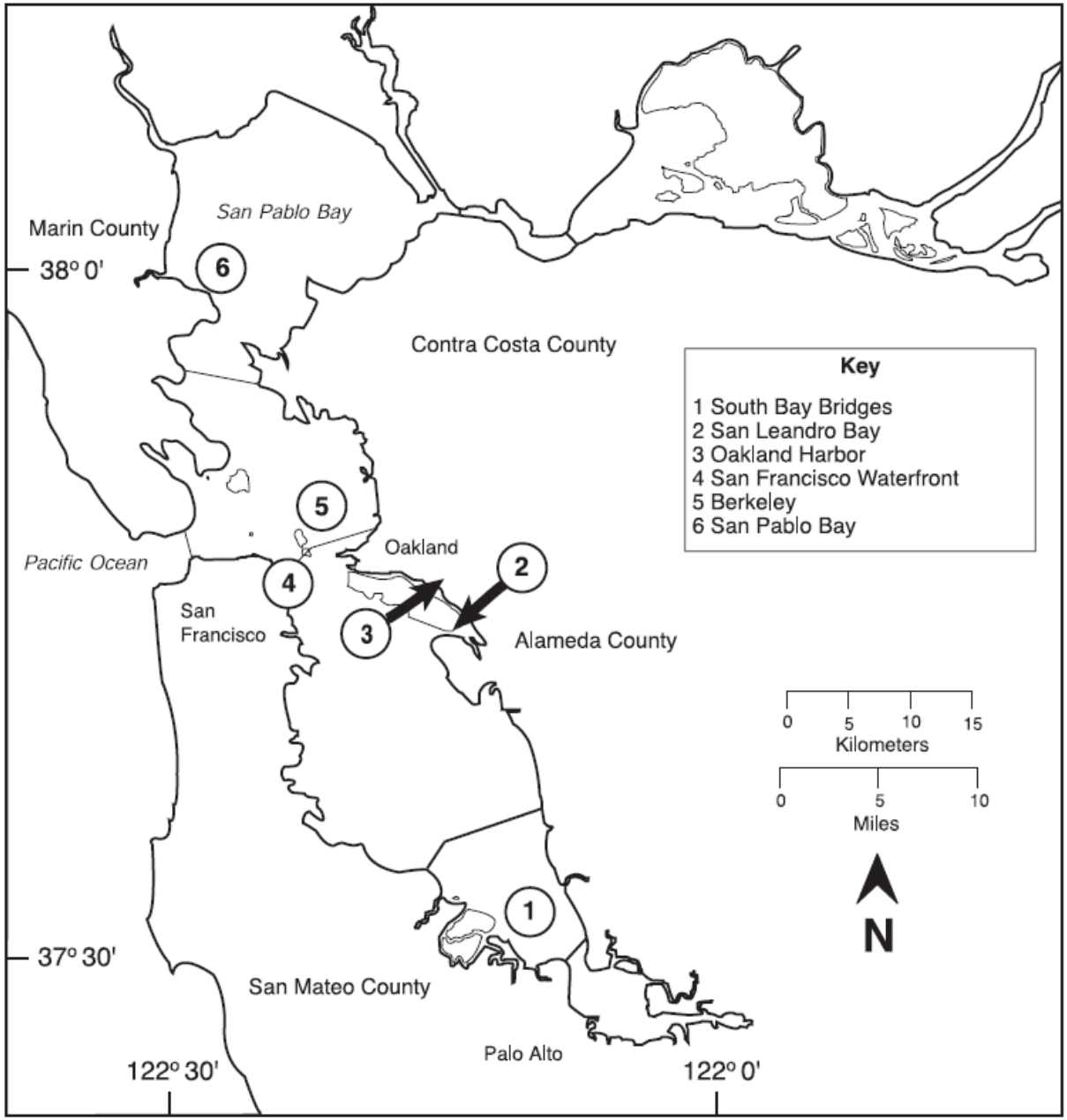
Bivalve Sampling, 2006

- 11 fixed stations
- Annual
- Organics



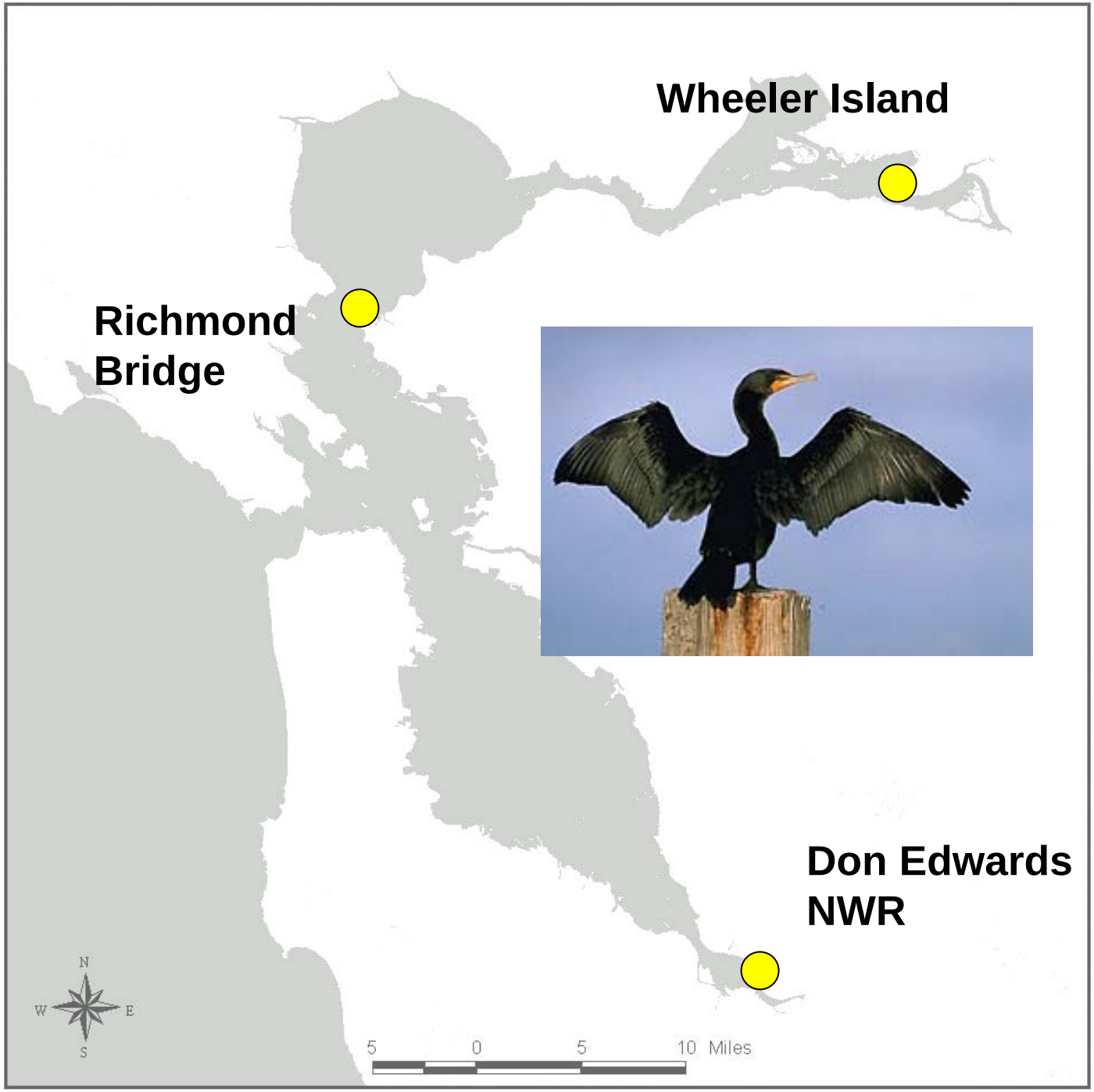
Sport Fish

- 6 locations
- Targeted sampling
- Triennial
- Metals and organics



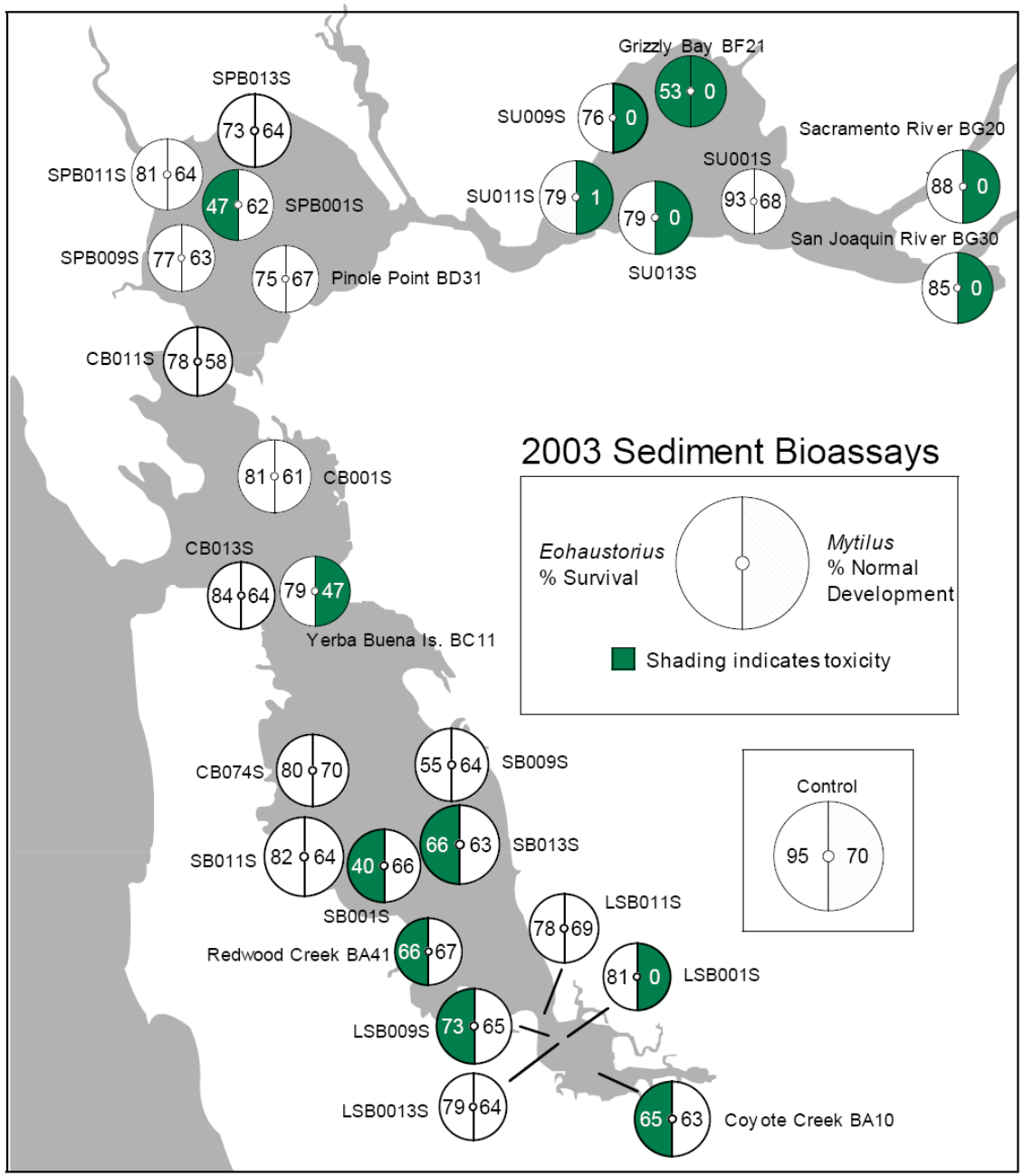
Cormorant Eggs (pending)

- 3 locations
- Targeted sampling
- Triennial
- Metals and organics
- Dioxins
- *Emerging contaminants*



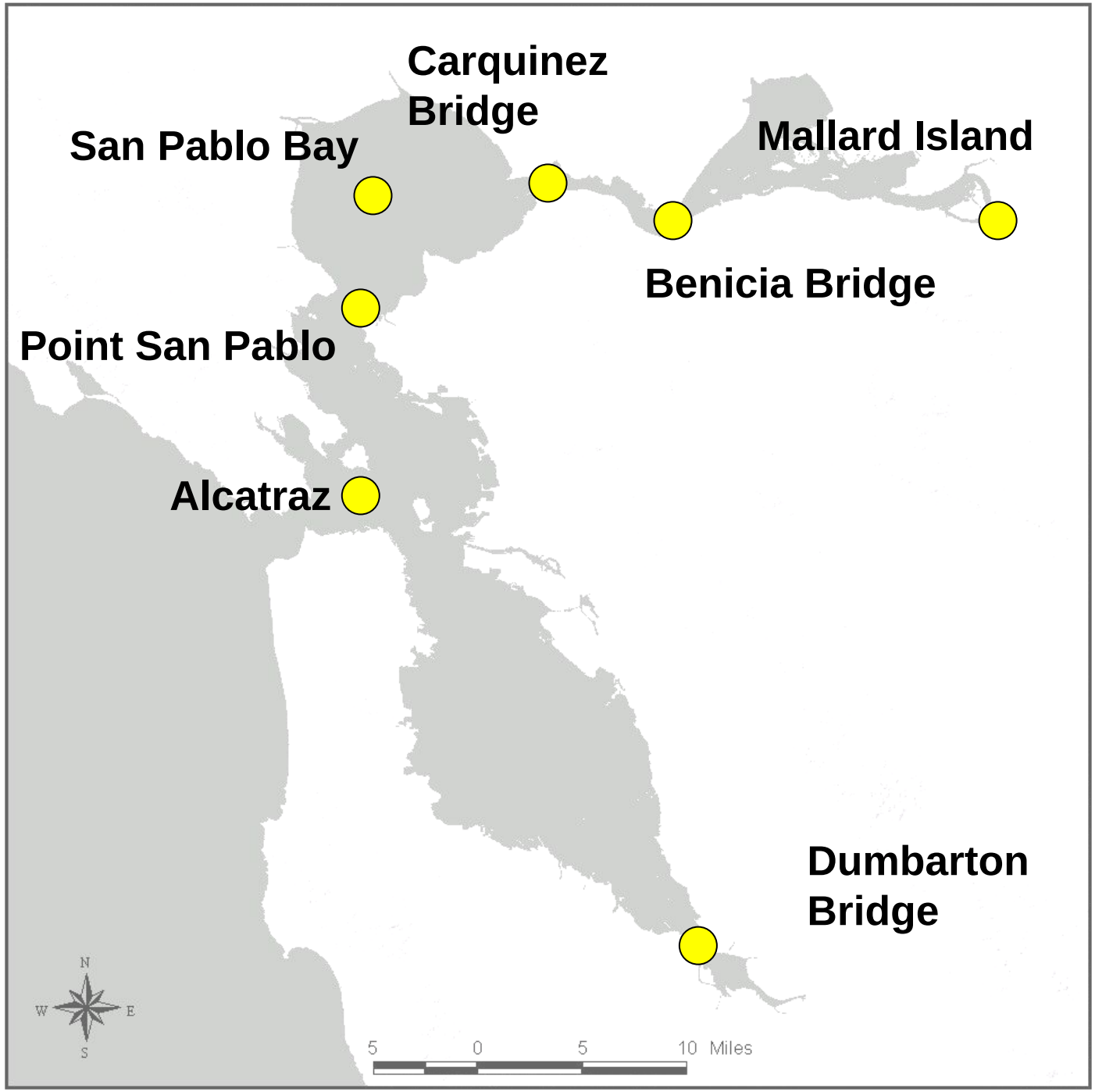
Sediment Toxicity

- 27 stations (2006)
- 20 random (GRTS)
- 7 fixed



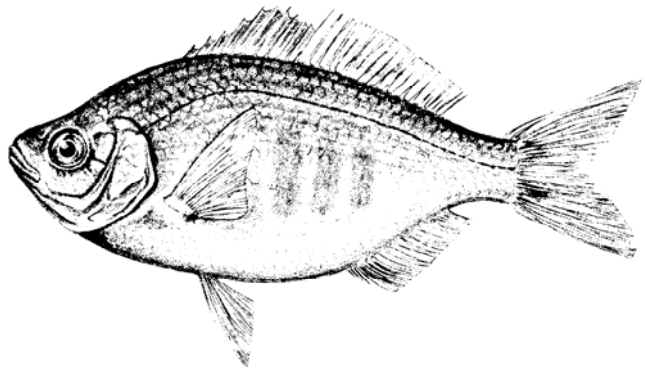
Continuous Monitoring stations, 2006

- SSC
- salinity
- temperature



Pilot Studies

- Mercury Deposition Network - Writeup
- Exposure and Effects ($200K)
  - Effects of pollutants on shiner surfperch ($50K)
  - Mercury in small fish ($40K)
- Winter Sampling ($100K)



Special Studies

- River Loading ($51K)
- Small Tributary Loading ($50K)
- Sediment Coring ($100K RMP/$200K CEP)
- South Bay Salt Pond Restoration Project Mercury Monitoring ($25K RMP, lots from others)

Overlap with Proposed NMN

NMN Element	Covered by RMP?
Quality Assurance	Yes
Data Management	Yes
Data Access	Yes
GRTS for Spatial Coverage	Yes
Estimates of Uncertainty	No
Flux from Rivers	Yes
Flux from Coastal Watersheds	Yes
Flux from Atmosphere	No
Flow Through the Estuary	No
Variability Estimates	Some (USGS)
Continuous Monitoring (2 sites)	Yes - USGS

Moving Forward

1. Opportunity for obtaining more detailed information on San Francisco Bay
2. Opportunity for cost savings for NMN or RMP
3. Both of the above

<u>Some</u> other things we would like to include

- More small fish monitoring
- More effects work
- Emerging contaminants work
- Loadings from small tributaries
- Sediment coring
- Sediment TIEs
- Winter sampling

We need to talk!

RMP COMMITTEE ORGANIZATION CHART

- STEERING COMMITTEE
  - TECHNICAL REVIEW COMMITTEE
    - SOURCES, PATHWAYS, AND LOADING WORKGROUP
    - EXPOSURE AND EFFECTS WORKGROUP
    - CONTAMINANT FATE WORKGROUP

Reports and information available at:

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