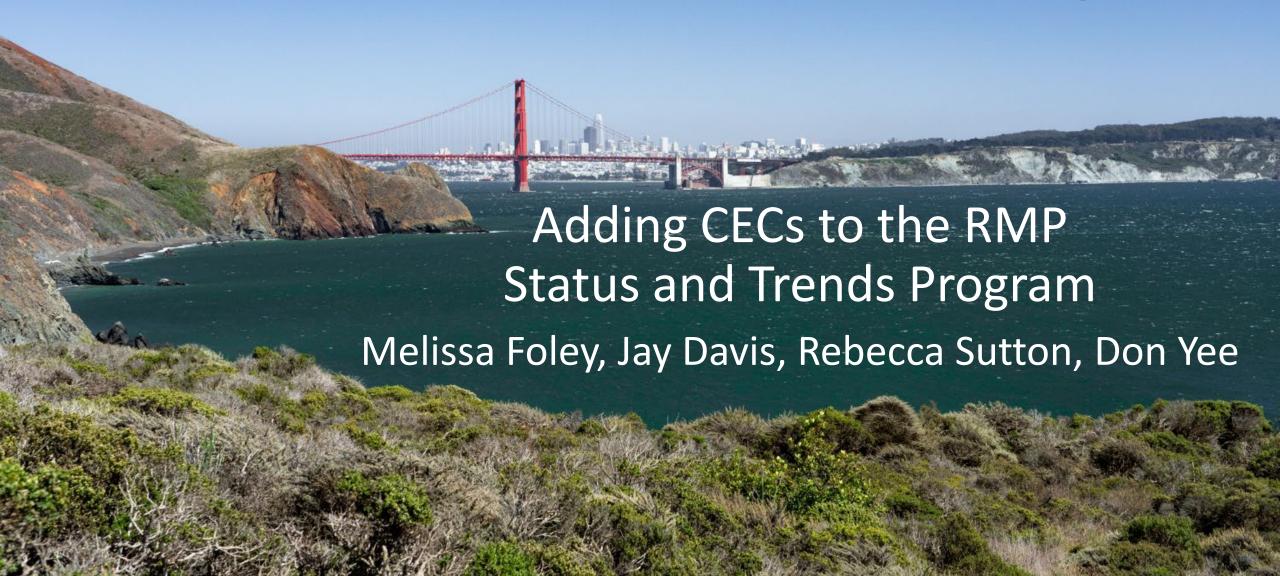
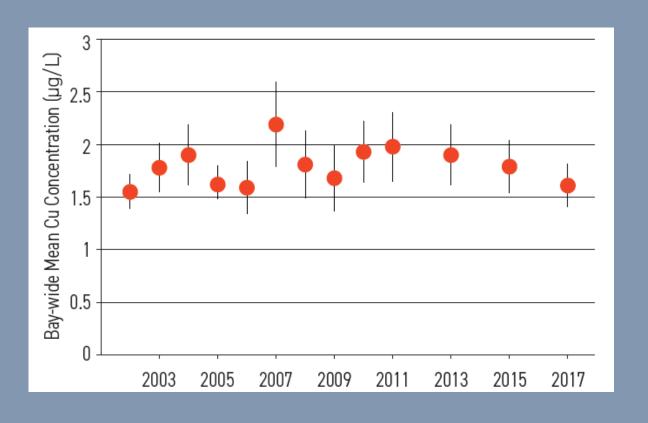
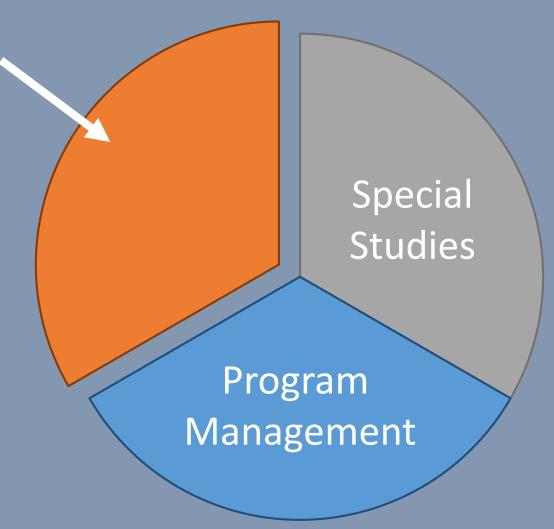
2022 RMP Annual Meeting



RMP Status and Trends Program

Status & Trends 30-40% of budget





RMP S&T Program – Management Questions

How much?

Levels of concern?

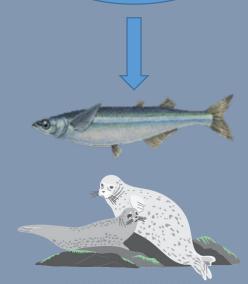
Sources, pathways, loadings?

Trending up or down?

Future changes?













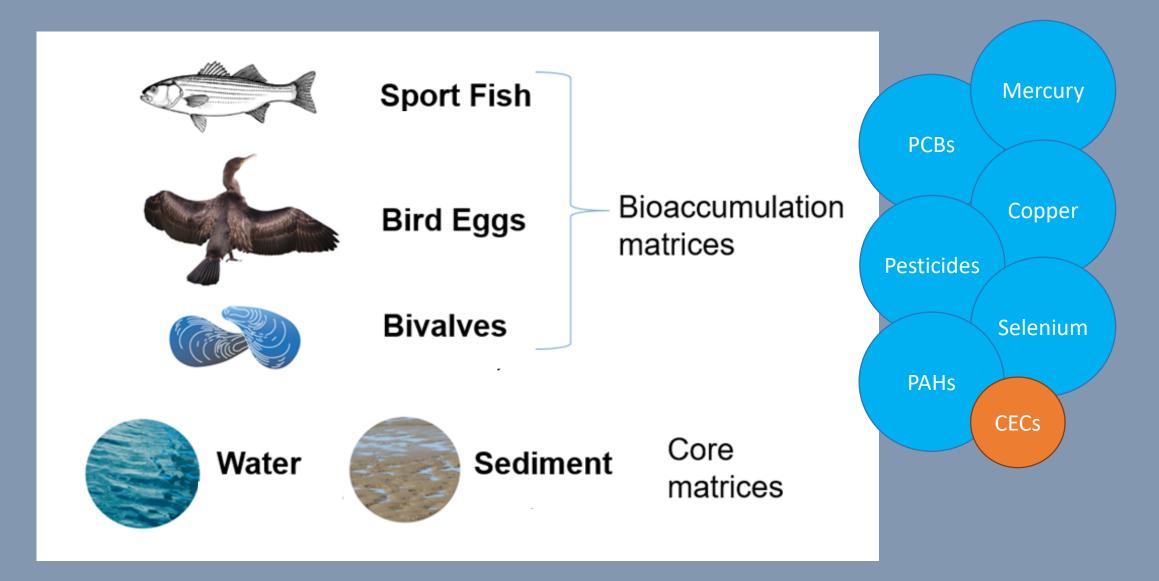




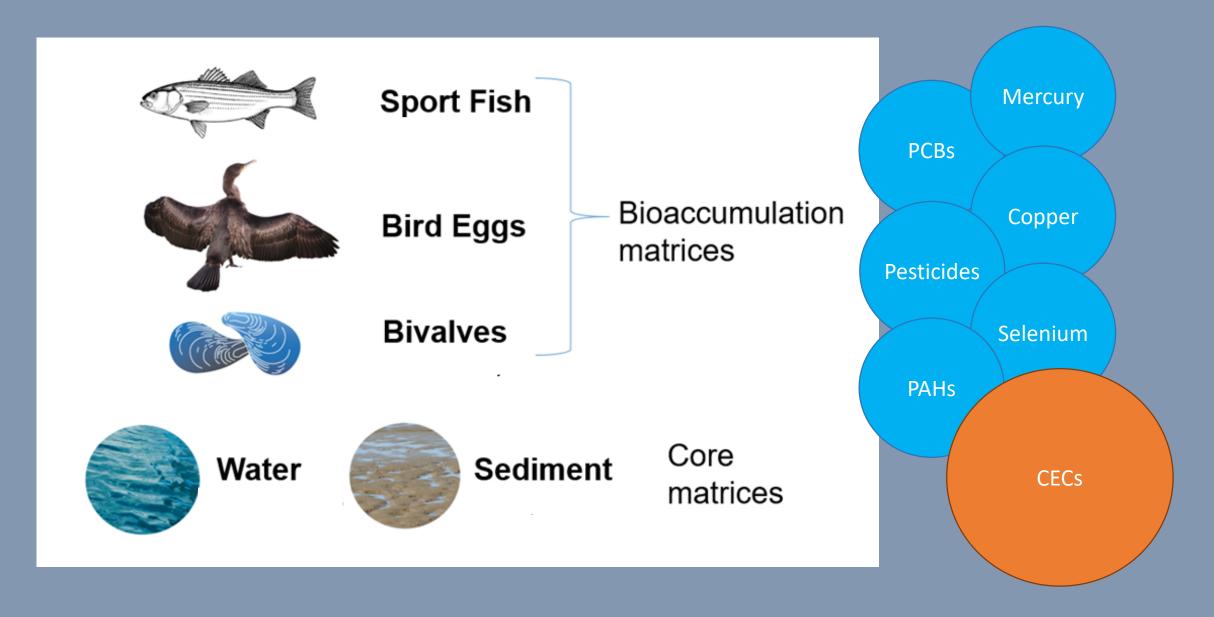




RMP S&T Program – Matrices and analytes



RMP S&T Program – Matrices and analytes



High Concern

High probability of moderate or high level effect on Bay aquatic species

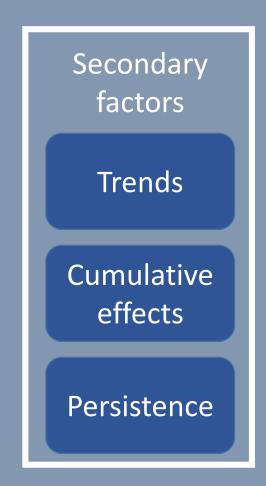
Moderate Concern High probability of low level effect on Bay aquatic species

Low Concern

High probability of minimal effects on Bay aquatic species

Possible Concern

Uncertainty in level of effect on Bay aquatic species due to uncertainty in toxicity threholds and methods



High Concern

moderate or high impact

Studies to support TMDL or alternative management plan.

Moderate Concern

low impact

Consider including in Status and Trends monitoring.

Special studies of fate, effects, sources, pathways, and loadings.

Low Concern

minimal impact

Periodic screening-level monitoring in relevant matrices in the Bay and in wastewater and stormwater pathways.

Possible Concern

uncertainty as to impact

Screening level monitoring to determine presence in Bay matrices and in wastewater and stormwater.

High Concern

moderate or high impact

None currently

Moderate Concern

low impact

PFAS

Alkylphenols, Alkylphenol Ethoxylates Fipronil, Imidacloprid, Bisphenols Organophosphate Esters, Microplastics

Low Concern

minimal impact

PBDEs and HBCD
Pharmaceuticals, Pyrethroids*
Personal Care & Cleaning
PBDDs / PBDFs

Possible Concern

uncertainty as to impact

Alternative Flame Retardants
Pesticides, Plastic Additives
Quaternary Ammonium Compounds
Siloxanes, SDPAs, UV-BZTs, others

CEC information matrix

Expected pathway

Existing data or modeling in the Bay

Sampling design

Matrix

Season

Location

Frequency

Sites

V

Toxicity thresholds

Chemical properties

RMP S&T Program – Management Questions

How much?

Levels of concern?



Sources, pathways, loadings?



Trending up or down?



































PFAS

Bisphenols

Organophosphate Esters

Moderate
Concern
low impact







sixclasses.org

RMP S&T Program – CEC additions





- PFAS, bisphenols, organophosphate esters
- Whole Bay, wet and dry seasons
- Targeted nearfield (urban) sites; random open Bay





- PFAS and bisphenols
- Whole Bay, dry season
- Targeted nearfield sites; random margins and open Bay





- PFAS
- Whole Bay, spring
- Targeted sites



Sport Fish Every 5 Years



- PFAS
- Whole Bay, summer
- Targeted sites

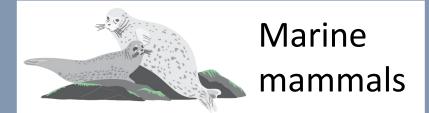


RMP S&T Program – CEC additions (pilot studies)





- PFAS
- Central, South, Lower South Bays
- Targeted



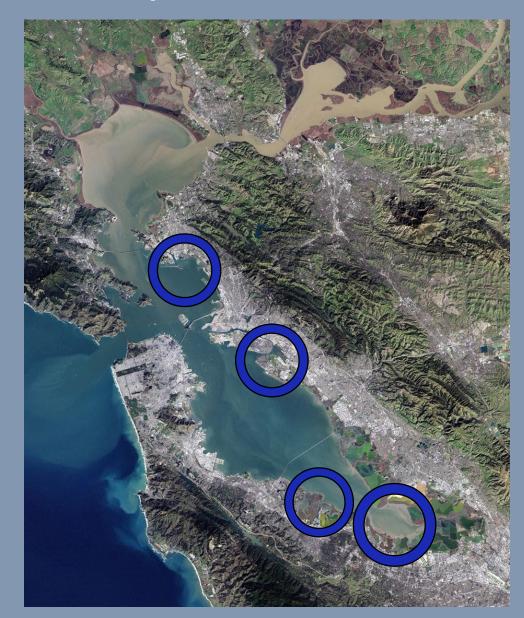


- PFAS
- Whole Bay
- Opportunistic

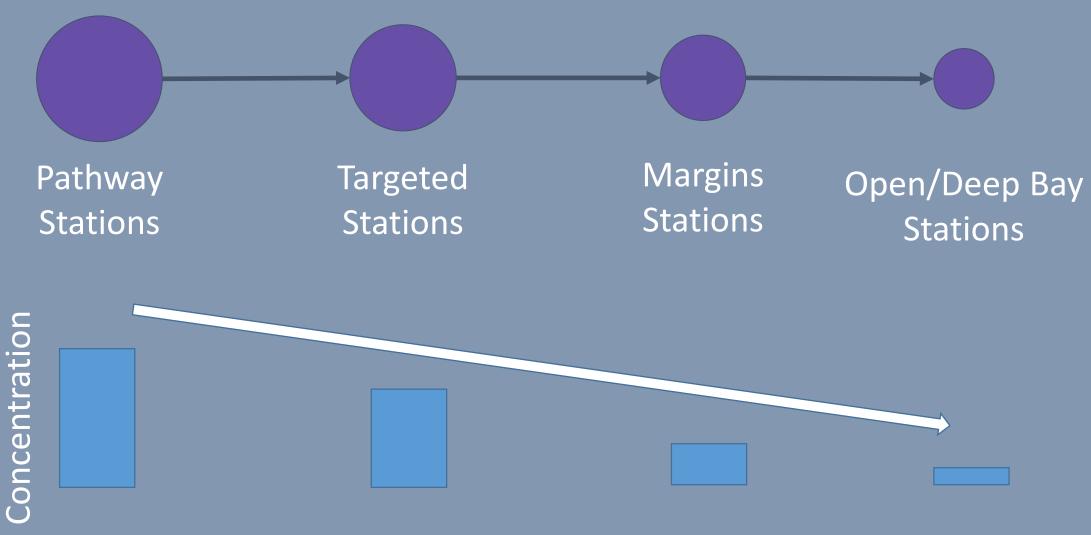


RMP S&T Program – Sample overlap

- Bay and nearfield water (dry and wet season)
- Nearfield, margins, and ambient sediment
- Prey fish
- Sport fish
- Marine mammals



Testing our conceptual models



Wet season tire contaminant concentrations (WY2021)

RMP updates



RMP Updates - Budget

Supplemental Environmental Projects (2016)

Total - \$3.4M \$300k-\$600k per year

CEC Alternate Monitoring Funds

Municipal Wastewater (2017) - \$330k per year

Municipal Stormwater (2023?) - \$100k per year



RMP Updates - Budget

External funding (2021-2022)

- CECs \$390k Sediment \$750k
- Microplastics \$250k
 Stormwater \$1M

Recently submitted proposal

Water Quality Improvement Fund - \$2.9M



RMP Coming Attractions

Stormwater CECs report

PFAS in the Bay report

In-Bay model development

Sediment flux reports

PCBs in Steinberger Slough Dredged sediment PCB thresholds

Sediment Conceptual Model

Watershed
Dynamic
Model

Sediment beneficial use guidelines report

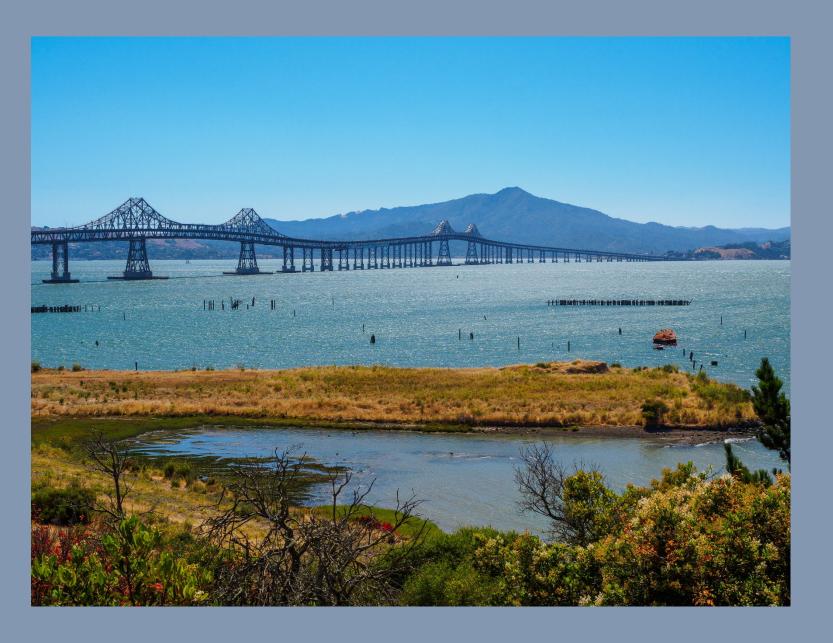
Tire contaminants in the Bay

Margins sediment report

Bisphenols in sediment and wastewater report



Thank you!





Thank you for coming!

- Return your name tags to the registration table
- Fill out the survey that will be emailed to you
- Let us know if you want a hard copy of the Pulse

Post-Meeting Social

Study Hall Rooftop Lounge
Residence Inn by Marriott
2121 Center St., Berkeley
12th floor



