

DELTA RMP NUTRIENT SYMPOSIUM

Location: In Person: CVRWQCB Training Room, 11020 Sun Center Drive, Suite 200, Rancho Cordova, CA 95670
Virtual: [Microsoft Teams](#) or (321) 231-7957 ID: 552 532 910#

Date: September 27, 2022

Time: 8:00 am – 5:00 pm

Facilitator: Melissa Turner

Agenda Items

8:00 to Lunch Coffee and Pastries

8:20 – 8:30 Welcome and Introduction

Steering Committee Co-Chairs Meredith Howard and Debbie Webster

8:30 – 9:50 Looking Back: A Review of Delta RMP- Funded Nutrient and HAB Projects

This session will begin with an overview of nutrient management in the Delta and an introduction to the Delta Nutrient Research Plan, which has been identified by the Delta RMP as an important roadmap for prioritizing nutrient research including a summary of how nutrient problems in the Delta impact various stakeholders. Presenters will review projects associated with nutrients and phytoplankton that the Delta RMP has partially or fully funded.

Opening Remarks:
Adam Laputz

Overview of the Delta Nutrient Research Plan:
Tom Grovhoug

Overview of Delta RMP Studies:
Tim Mussen

9:50 – 10:00 BREAK

10:00 – 12:35 Status & Trends in Nutrient Studies

This session will focus on the evaluation of how changes in nutrient inputs affect the Delta, potential implication of management activities on HABs, and evaluation of

Opening Remarks: Janis Cooke

data gaps. The focus will be on nutrient special studies currently underway by the Delta RMP and other agencies.

Filing in the Blanks:
Nutrient Data Gaps and
Special Studies in the
Delta:
Dylan Stern

Sacramento River
Nutrient Studies:
Lisa Thompson

Nutrients,
Phytoplankton, and
Harmful Algal Bloom
Research by the U.S.
Geological Survey:
Tamara Kraus
Keith Bouma-Gregson

Expanding the Spatial
and Seasonal Research
on Delta Cyanobacterial
Harmful Algal Blooms:
Ellen Preece

12:35 – 1:20 Lunch Provided

1:20 – 3:10 Predicting the Future – Nutrient Modeling

This session will provide an update on current nutrient modeling efforts in the Delta including work partially funded by the Delta RMP and future work planned. Discussion of how modeling can be used to assess the effectiveness of nutrient management. Identification of modeling limitations and potential areas where additional data can help inform / update existing models. Review of existing tools to predict changes in nutrients and discussion of data gaps. Discussion of integration with other important factors, such as HAB, diatom, or macrophyte growth, and their potential for informing nutrient management programs.

Opening Remarks:
Melissa Turner

SFEI Delta-Suisun
Biogeochemical Model:
David Senn

SPARROW Model of
Nutrients in California
Streams:
Joe Domagalski

Modeling Delta Water
Quality Using Coupled
Hydrodynamic and
Biogeochemical Models:
Zhenlin Zhang

3:10 – 3:20 BREAK

3:20 – 4:35 Nutrient Monitoring Collaborations and Partnerships

Updates from other monitoring programs in the Delta including short-term and long-term goals of those programs. Discussion focused on how partnerships and collaboration can foster data sharing and maximizing resources.

Opening Remarks: **SC Co-Chairs Meredith Howard and Debbie Webster**

USGS Nutrient Monitoring Program: **Brian Bergamaschi**

Department of Water Resources Municipal Water Quality Investigations (MWQI), Interagency Ecological Program (IEP) and Environmental Monitoring Program (EMP):
Ted Flynn
Leslie Palencia

San Francisco Bay Regional Monitoring Program:
Tom Mumley

4:35 to 4:55 Final Opportunity for Questions

4:55 – 5:00 Closing Remarks

SC Co-Chairs Meredith Howard and Debbie Webster

Goals / Objectives

- Inform upcoming Delta RMP long-term nutrient planning efforts.
- Inform Delta RMP stakeholders on recent nutrient activities in the Delta including an assessment of data gaps and an evaluation of management questions.
- Improve understanding of management activities associated with water quality problems identified in the Delta Nutrient Research Plan.