

OUTFALL MONITORING SCIENCE ADVISORY PANEL TECHNICAL WORKSHOP

September 22 and 23, 1999, 9:00 AM – 5:00 PM
JFK Federal Building Conference Center, Second Floor Low Rise Building

AGENDA

WEDNESDAY, SEPTEMBER 22

9:00 - 9:45

Introduction

Arleen O'Donnell (Massachusetts Department of Environmental Protection) and
Ron Manfredonia (Environmental Protection Agency)

OMSAP and Its Charge

Andy Solow (OMSAP – Woods Hole Oceanographic Institution)

9:45 - 10:45

The Boston Harbor Project Progress to Date

- ◆ Facilities timeline, Andrea Rex (Massachusetts Water Resources Authority)
- ◆ Effluent quality, Steve Rhode (MWRA)
- ◆ Harbor quality, Dave Taylor (MWRA)
- ◆ Why the outfall?, Andrea Rex (MWRA)

10:45 - 11:15 **Break and Poster Viewing**

11:15 - 12:15

Monitoring Plan

Mike Mickelson and Ken Keay (MWRA)

- ◆ Monitoring Program - adequacy and breadth
- ◆ Thresholds - combine concerns with expectations for quality of the Bay, based on system understanding
- ◆ Contingency Plan - framework for response
- ◆ Communications to OMSAP and EPA/MADEP

12:15 - 1:15 **Lunch** (on your own)

1:15 - 2:00

The Physical Environment

Rocky Geyer (WHOI)

- ◆ Water masses
- ◆ Hydrodynamic model and plume behavior
- ◆ The extent to which water motion accounts for biological responses, including red tides and formation of zooplankton patches

2:00 - 3:15

Water Quality

Carlton Hunt (Battelle)

- ◆ Nutrients, chlorophyll, and dissolved oxygen
- ◆ Harbor signatures and gradients
- ◆ Key plankton responses (regional)
- ◆ Thresholds and detection of change

3:15 - 3:30 Break

3:30 - 4:00

Modeling in Support of Monitoring

Jim Fitzpatrick (HydroQual)

- ◆ Capabilities
- ◆ Sensitivity analysis

4:00 - 5:00

OMSAP Panel Discussion (open)

Andy Solow (OMSAP – WHOI)

Adjourn the first day

THURSDAY, SEPTEMBER 23

9:00 - 9:45

Sediment Transport and Topography

Brad Butman (United States Geological Survey)

- ◆ Geological setting
- ◆ Contaminants distribution

9:45 - 10:45

Benthic Communities, Ken Key (MWRA)

- ◆ Harbor
- ◆ Outfall

10:45 - 11:15 **Break and Poster Viewing**

11:15 - 11:45

Nutrient Flux in the Harbor

Anne Giblin (Marine Biological Laboratory)

11:45 - 12:00

Hardbottom Community

Barbara Hecker (Hecker Environmental)

12:00 - 1:00 **Lunch** (on your own)

1:00 - 1:15

Mussels and Bioaccumulation

Lisa Lefkovitz (Battelle)

1:15 - 1:45

Flounder Histology and Tissue Chemistry

Michael Moore (WHOI)

1:45 - 2:15 **Break and Poster Viewing**

2:15 - 5:00

OMSAP Panel Discussion (open)

Andy Solow (OMSAP – WHOI)

Adjourn the second day

POSTERS

***Alexandrium* in the Gulf of Maine and Massachusetts Bay**

Don Anderson and Bruce Keafer (WHOI)

Sediment Contaminant Monitoring in Massachusetts and Cape Cod Bays

Deirdre Dahlen, Lisa Lefkovitz, and Carlton Hunt (Battelle)

Long-term Trends in Productivity

Aimee Keller (University of Rhode Island)

Juvenile Lobster Study

Roy Kropp (Battelle)

Sediment Profile Imaging (Harbor and Bay)

Bob Diaz (Diaz and Daughters)

Lobster Monitoring

Lisa Lefkovitz (Battelle)

Plankton Community

Jeff Turner (U Mass-Dartmouth) and Dave Borkman (URI)

Plume Tracking Study Design

Carl Albro (Battelle)

Statistical Analysis of Temporal Patterns in Harbor Bacterial Water Quality

Andrea Rex (MWRA)

Hardbottom Community

Barbara Hecker (Hecker Environmental)