

July 23, 2003

Mr. Glenn Haas, Director
Division of Watershed Management
Department of Environmental Protection
1 Winter Street
Boston, MA 02108

Ms. Linda Murphy, Director
Office of Ecosystem Protection
U.S. Environmental Protection Agency
Water Technical Unit "SEW"
P.O. Box 8127
Boston, MA 02114

Re: Massachusetts Water Resources Authority, Permit Number MA0103284
Part I.7 Quarterly Ambient Monitoring Report

Dear Mr. Haas and Ms. Murphy:

I am pleased to submit MWRA's quarterly report on ambient monitoring results.¹ This quarter's submission includes four new reports on monitoring the water column and fish, and one new report on modeling water quality during 1998-1999.

Additionally, earlier this quarter MWRA submitted detailed briefing packages in support of the OMSAP workshops on March 31-April 1 and June 18-19, 2003. These briefing packages are included in this submission. In early July, MWRA also submitted a report requested by OMSAP to review whether patterns in the zooplankton data could be linked to factors such as temperature and currents. The zooplankton report is not included in this mailing.

MWRA will provide raw monitoring data upon request. Please let me know if any of MWRA's staff can give you additional assistance regarding these reports.

Sincerely,

Michael J. Hornbrook
Chief Operating Officer

¹ Part I.7.c.iv of the permit requires "The results of all monitoring required by the ambient monitoring plan or the eutrophication model shall be reported to EPA, MADEP, OMSAP and NMFS, on a quarterly basis."

Enclosures: Three packages with seven reports total, two of which have been previously submitted.

New reports:

HydroQual. 2003. [Bays Eutrophication Model \(BEM\): Model Verification for the Period 1998-1999.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-03. 318 pp.

Libby PS, Geyer WR, Keller AA, Turner JT, Borkman D, Mickelson MJ, Hunt CD, Oviatt CA. 2002. [2001 Annual Water Column Monitoring Report.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2002-22. 100 pp.

Libby PS, Mansfield AD, Keller AA, Turner JT, Borkman DG, Oviatt CA, Mongin CJ. 2002. [Semiannual water column monitoring report: February – June 2002.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2002-23. 354 pp.

Libby PS, Mansfield AD, Keller AA, Turner JT, Borkman D, Oviatt CA and Mongin CJ. 2003. [Semiannual water column monitoring report: July - December 2002.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-07. 290 pp.

Pala S, Lefkovitz L, Moore M, Schaub E. 2003. [2002 Annual fish and shellfish report.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-05. 176 pp.

Previously submitted reports:

MWRA. 2003. [Briefing for OMSAP workshop on ambient monitoring revisions, March 31-April 1, 2003.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-083. 96 pp.

MWRA. 2003. [Briefing for OMSAP workshop on ambient monitoring revisions, June 18-19, 2003.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-085. 150 pp.

Not enclosed, but previously submitted: One report.

Kropp RK, Turner JT, Borkman D, Emsbo-Mattingly S, Hunt CD, Keay KE. 2003. [A review of zooplankton communities in the Massachusetts Bay/Cape Cod Bay system.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-06. 39 pp plus appendices.

cc:

**Environmental Protection Agency, Region I
(EPA)**

Matthew Liebman
Janet Labonte-Deshais
Eric Hall
Roger Janson (cover letter only)

**Massachusetts Department of Environmental
Protection (DEP)**

Steve Lipman
Cathy Coniaris

Outfall Monitoring Science Advisory Panel

Andrew Solow
Robert Beardsley
Norb Jaworski
Scott Nixon
Judy Pederson
Michael Shiaris
James Shine
Juanita Urban-Rich
Robert Kenney

National Marine Fisheries Service

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Stellwagen Bank National Marine Sanctuary

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Public Interest Advisory Committee

Patty Foley (cover letter only)

Cape Cod Commission

Steve Tucker (cover letter only)