



# MASSACHUSETTS WATER RESOURCES AUTHORITY

Charlestown Navy Yard  
100 First Avenue, Building 39  
Boston, MA 02129

Frederick A. Laskey  
Executive Director

Telephone: (617) 242-6000  
Fax: (617) 788-4899  
TTY: (617) 788-4971

October 12, 2022

Todd Borci  
EPA Region 1  
5 Post Office Square, Suite 100  
Mail Code ECAD4-4  
Boston MA, 02109-3912

Catherine Coniaris  
Department of Environmental Protection  
1 Winter Street  
Boston, MA 02108

RE: Massachusetts Water Resources Authority  
Permit Number MA 0103284  
Quarterly Ambient Monitoring Results and Contingency Plan Reporting

Dear Mr. Borci and Ms. Coniaris:

In fulfillment of Part I.7.c.iv of the Massachusetts Water Resources Authority's ("MWRA") Deer Island Wastewater Treatment Plant permit, "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," I am pleased to submit MWRA's quarterly report on ambient monitoring results. These reports are also available on MWRA's website at <https://www.mwra.com/harbor/html/bhrecov.htm>.

Five reports were completed this quarter. The first report summarizes MWRA's continuous biological monitoring in Massachusetts Bay, with emphasis on marine algae through chlorophyll measurements. Three of the other reports are demonstrations of the updated Bays Eutrophication Model. The fifth report is MWRA's Contingency Plan Report for the third quarter of 2022 for Ambient Monitoring.

As has been observed since outfall start-up in September 2000, findings in these reports continue to indicate that the Deer Island Treatment Plant outfall discharge is not adversely impacting the environment.

MWRA will provide raw monitoring data upon request. If you have any questions regarding this matter, please email Betsy Reilley at [betsy.reilley@mwra.com](mailto:betsy.reilley@mwra.com).

Sincerely,

Carolyn M. Fiore  
Deputy Chief Operating Officer

**Enclosures:** Five Ambient Monitoring reports. These reports are available online. To request a hard copy, please email [web.enquad@mwra.com](mailto:web.enquad@mwra.com) or email Betsy Reilley at [betsy.reilley@mwra.com](mailto:betsy.reilley@mwra.com).

**Reports:**

Roesler CS. 2022. [Continuous hourly observations of chlorophyll fluorescence, turbidity, and irradiance in Massachusetts Bay \(2005 – 2021\) reveal variations in phenology of phytoplankton blooms.](#) Boston: Massachusetts Water Resources Authority. Report 2022-10. 19 p.

Deltares. 2022. [Simulations of 2020 Hydrodynamics and Water Quality in the Massachusetts Bay System using the Bays Eutrophication Model.](#) Boston: Massachusetts Water Resources Authority. Report 2022-08. 90 p.

Deltares. 2022. [Simulations of 2019 Hydrodynamics and Water Quality in the Massachusetts Bay System using the Bays Eutrophication Model.](#) Boston: Massachusetts Water Resources Authority. Report 2022-07. 86 p.

Deltares. 2022. [Simulations of 2018 Hydrodynamics and Water Quality in the Massachusetts Bay System using the Bays Eutrophication Model.](#) Boston: Massachusetts Water Resources Authority. Report 2022-06. 89 p.

MWRA. 2022 [Contingency Plan Report, Third Quarter 2022: Ambient Monitoring.](#) 6p.

**Cc:**

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Alexa Sterling

**National Marine Fisheries Service**

Christine Vaccaro

**Stellwagen Bank National Marine Sanctuary**

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**US Food and Drug Administration**

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