Figure 1. Counties corresponding to the scope of the Harbor & Estuary Program. The watershed of the Harbor Estuary is outlined with a blue dotted line.

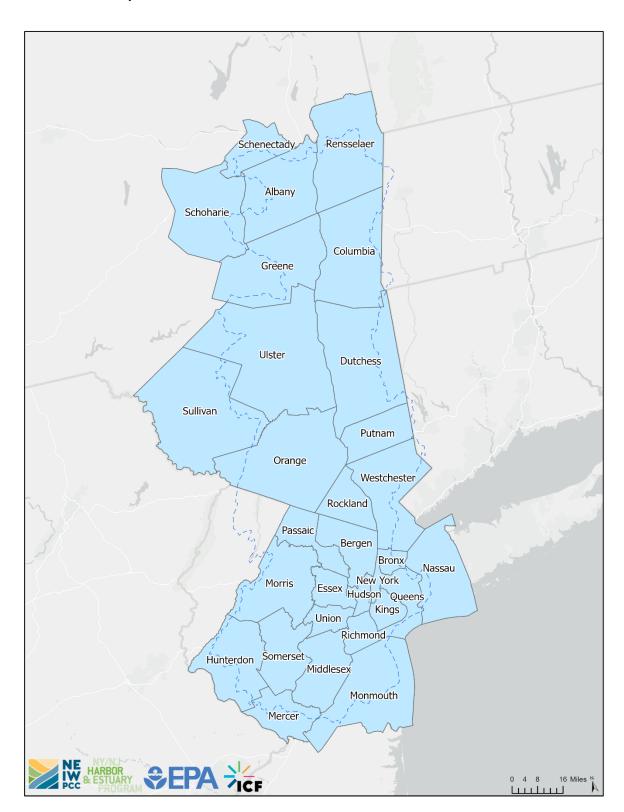


Figure 2. New York-New Jersey Harbor Estuary



Figure 3. Counties that encompass the immediate watershed of the Harbor Estuary. The immediate watershed of the Harbor Estuary is outlined with a blue dotted line.

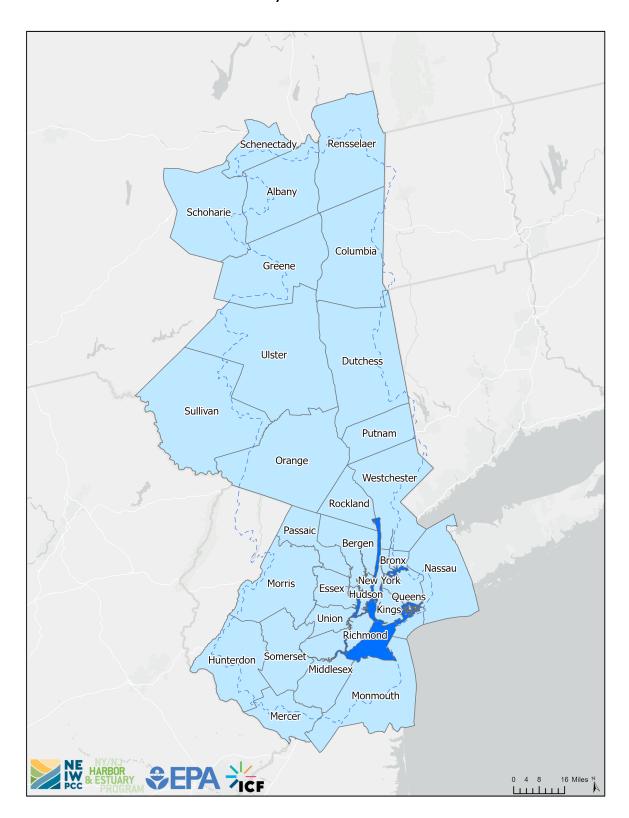


Figure 4. Estimated benefits (total annualized value) for water quality improvements under all water quality scenarios. Total annualized values account for discounting of future values to 2023 (since benefits accrued today are valued more than benefits accrued in the future).

Total Annualized Value of Water Quality Improvements











\$156 M

SECONDARY CONTACT RECREATION

Safe for paddling, boating, and wading



\$375 M

PRIMARY CONTACT RECREATION

Safe for swimming



\$972 M

**AQUATIC LIFE** 

Improved biomass and survival of aquatic species



\$1.4 B

COMBINED

Safe for swimming, boating, and wading and improved biomass and survival of aquatic species

## Figure 5. Estimated benefits (annual household value) for water quality improvements under all water quality scenarios.

Annual Household Value of Water Quality Improvements











\$33.16

SECONDARY CONTACT RECREATION

Safe for paddling, boating, and wading



\$79.63

PRIMARY CONTACT RECREATION

Safe for swimming



\$206.50

**AQUATIC LIFE** 

Improved biomass and survival of aquatic species



\$301.32

**COMBINED** 

Safe for swimming, boating, and wading and improved biomass and survival of aquatic species

Figure 6. Estimated benefits (total present value) for water quality improvements under all water quality scenarios. Total present values account for: (1) projected population changes in counties adjacent to the Harbor Estuary over the 20-year analysis period and (2) discounting of future values to 2023 (since benefits accrued today are valued more than benefits accrued in the future).

Total Present Value of Water Quality Improvements











\$2.4 B

SECONDARY CONTACT RECREATION

Safe for paddling, boating, and wading



\$5.7 B

PRIMARY CONTACT RECREATION

Safe for swimming



\$14.9 B

## AQUATIC LIFE

Improved biomass and survival of aquatic species



\$21.7 B

## **COMBINED**

Safe for swimming, boating, and wading and improved biomass and survival of aquatic species

## Figure 7. Graphic representation of estimated benefits for water quality improvements under all water quality scenarios.

Value of Water Quality Improvements









SECONDARY CONTACT RECREATION

Safe for paddling, boating, and wading



PRIMARY CONTACT RECREATION



AQUATIC LIFE
Improved biomass and survival of aquatic species



COMBINED

Safe for swimming, boating, and wading and improved biomass and survival of aquatic species



Annual Household Value

\$33.16

\$79.63

\$206.50

\$301.32





~8.6 M households in adjacent counties



Total Annualized Value\*

\$156 M

\$375 M

\$972 M

\$1.4 B

Figure 8. Graphic representation of estimated benefits for water quality improvements under all water quality scenarios.



Total present values account for: (1) projected population changes in counties adjacent to the Harbor Estuary over the 20-year analysis period and (2) discounting of future values to 2023 (since benefits accrued today are valued more than benefits accrued in the future).