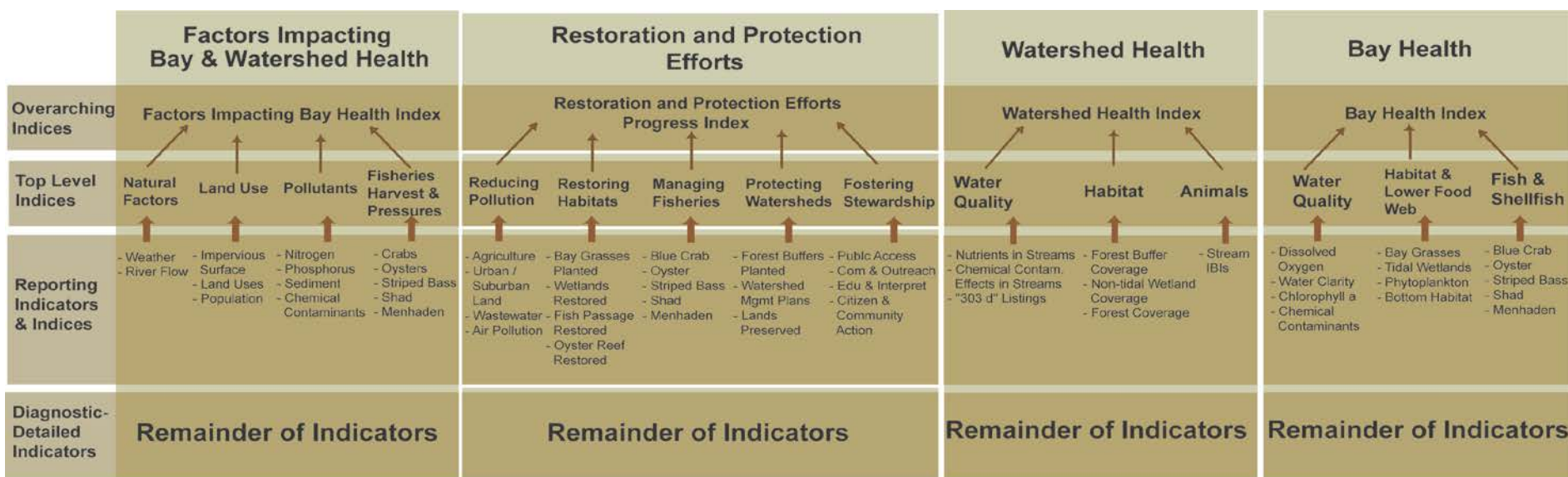


Indicator Status Updates Overview

Nita Sylvester, EPA CBPO

Chair of STAR's Indicator Workgroup

The Indicators Framework (2007)



↑ = direct numerical relationship

The Framework from 2010 Bay Barometer

Factors Impacting Health

| Pollutants | Land Use | Natural Factors |
|--|---|--|
| <ul style="list-style-type: none">• Nitrogen• Phosphorus• Sediment | <ul style="list-style-type: none">• Population• Forest Cover | <ul style="list-style-type: none">• River Flow |

The Framework from 2010 Bay Barometer

Bay Health

Habitats & Lower Food Web

- Bay Grasses
- Phytoplankton
- Bottom Habitat
- Tidal Wetlands

Fish & Shellfish Abundance

- Blue Crabs
- Oysters
- Striped Bass
- American Shad
- Menhaden

Water Quality

- Dissolved Oxygen
- Water Clarity
- Chlorophyll *a*
- Chemical Contaminants

The Framework from 2010 Bay Barometer

Watershed Health

Health of Freshwater Streams

- Benthic IBI

Flow Adjusted Pollution Trends

- Nitrogen - LT
- Phosphorus - LT
- Sediment - LT
- N - ST and Yield
- P - ST and Yield
- S - ST and Yield

The Framework from 2010 Bay Barometer

Restoration and Protection Efforts

Reducing Pollution

- Reducing N Pollution
- Reducing P Pollution
- Reducing S Pollution

Restoring Habitats

- Planting Bay Grasses
- Restoring Wetlands
- Reopening Fish Passage
- Restoring Oyster Reefs

Managing Fisheries

- Blue Crab Fishery Management

Protecting Watersheds

- Planting Forest Buffers
- Developing Watershed Management Plans
- Preserving Lands

Fostering Stewardship

- Public Access Index
- K-12 Education
- Citizen and Community Action

The Framework for 2012

Factors Impacting Health

Pollutants

- Nitrogen
- Phosphorus
- Sediment

Land Use

- Population
- ~~Forest Cover~~

Natural Factors

- River Flow

The Framework for 2012

Bay Health

Habitats & Lower Food Web

- Bay Grasses
- ~~Phytoplankton~~
TBD
- Bottom Habitat
- ~~Tidal Wetlands~~
TBD

Fish & Shellfish Abundance

- Blue Crabs
- ~~Oyster Biomass~~
- Striped Bass
- ~~American Shad~~
TBD
- Menhaden
- Oyster
Population

Water Quality

- Dissolved Oxygen
- Water Clarity
- Chlorophyll *a*
- Chemical Contaminants
- WQ Standards Attainment

The Framework for 2012

Watershed Health

Health of Freshwater Streams

- Benthic IBI
- Brook Trout/Stream Health

Flow Adjusted Pollution Trends

- Nitrogen - LT
- Phosphorus - LT
- Sediment - LT
- N - ST and Yield
- P - ST and Yield
- S - ST and Yield

Land Cover

- Forest Cover

The Framework for 2012

Restoration and Protection Efforts

Reducing Pollution

- Reducing N Pollution
- Reducing P Pollution
- Reducing S Pollution
- Wastewater Treatment Plant Upgrades

Restoring Habitats

- Planting Bay Grasses
- Restoring Wetlands
- Reopening Fish Passage
- ~~Restoring Oyster Reefs~~
- Oyster Restoration
- Wetlands Enhancement

Managing Fisheries

- Blue Crab Fishery Management

Protecting Watersheds

- Planting Forest Buffers
- ~~Developing Watershed Management Plans~~
- Preserving Lands

Fostering Stewardship

- ~~Public Access Index~~
- K-12 Education
- ~~Citizen and Community Action~~
- Public Access Points
- PK-12 Environmental Literacy