

Water Resources

- Protect and Monitor
 - 4 Great Lakes
 - 11,000 Inland Lakes
 - 36,000 river miles
 - 5 million acres of wetlands
 - 70,000 acres of coastal dunes

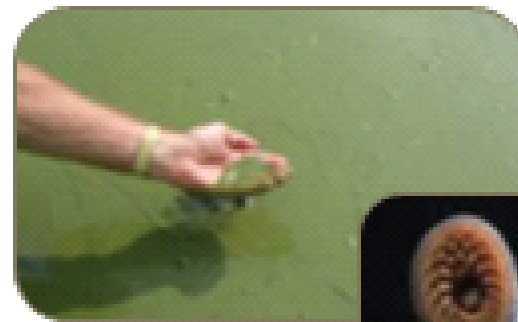
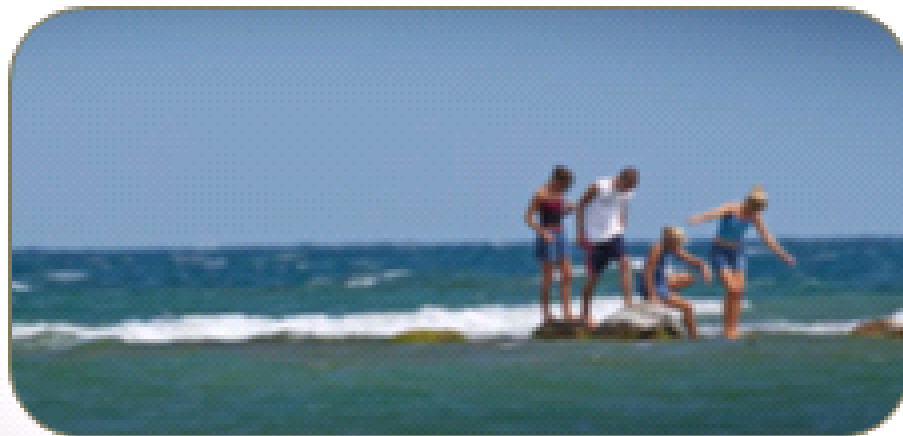


For swimming, fishing, drinking water and aquatic ecosystems.

Michigan's Water Strategy

In his Energy and Environment message, Governor Snyder asked the Office of the Great Lakes to lead development of a Water Strategy based on an “ecosystem approach” addressing:

- Invasive species
- Algal blooms/muck
- Coastal communities
- Beach closings
- Historical pollution/restoration
- Water withdrawal, use and conflict
- Water quality/infrastructure
- Storm/sewer, green infrastructure



Water Vision

- Michigan is defined and driven by water

Invasive Species

- AIS Michigan Plan
- AIS Advisory Council
- Quality of Life proposal



Wetland Changes

- New legislation - summer 2013
- To address EPA audit from 2008
- EPA reviewing
- EPA Public Hearing
- EPA proposed rule on Waters of the US



Part 31 Rules

- Part 23: Industrial pretreatment
- Part 13: Floodplain
- Part 5: Spill response

SAW

- 673 applications received
- Requesting \$541 million
- Reviews complete in January, 2014
- Update coming this month



Detroit

- CWA case dismissed after 35 years
- Bankruptcy court filing
- Asset Management
- Green Infrastructure



Lake Erie

- Annex 4
- Phosphorus
- Municipal loadings, mussels, dredging, Agriculture (Ohio)

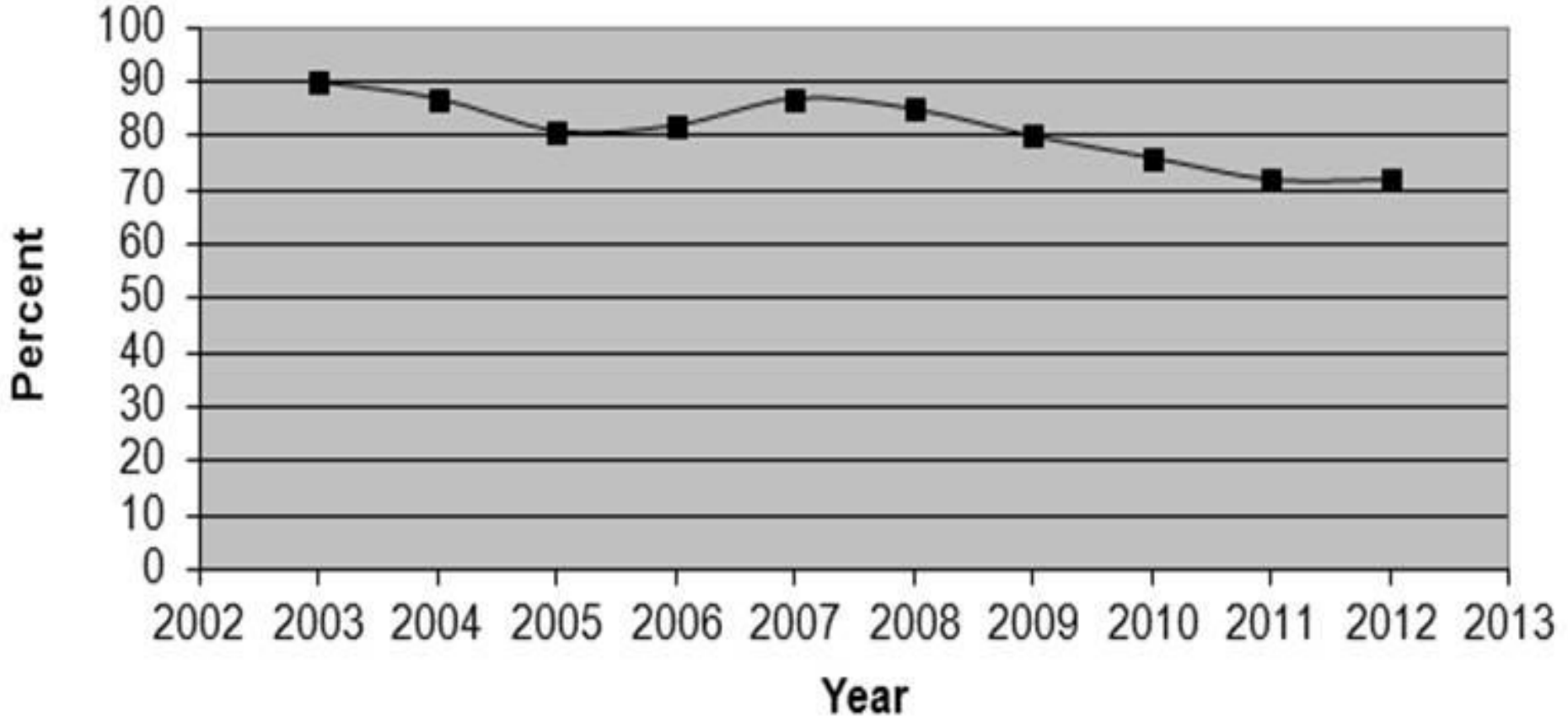


EPA

- Water Quality Standards
- WOTUS
- E-reporting rule

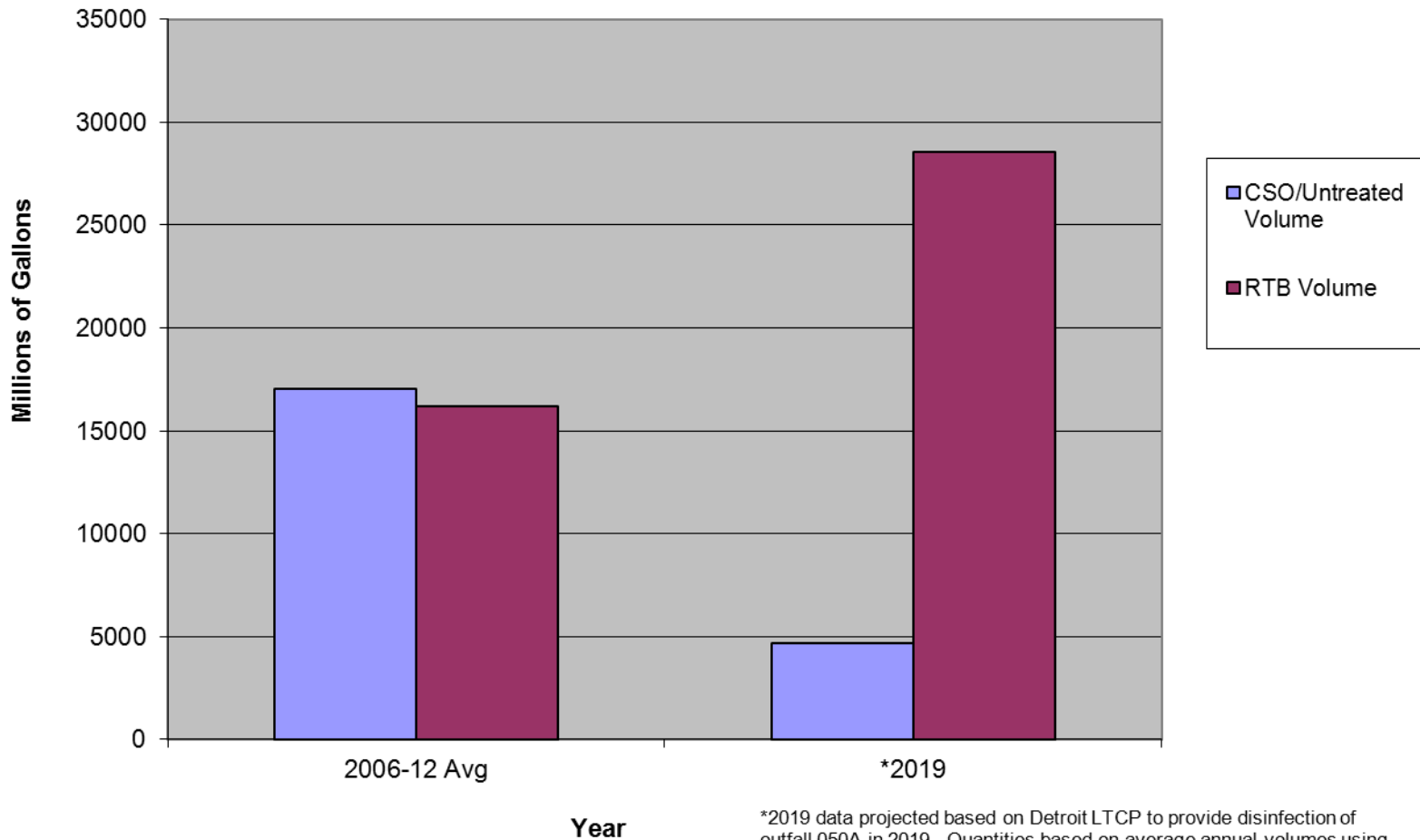
Metrics

Beaches Always Open



Raw Sewage discharges

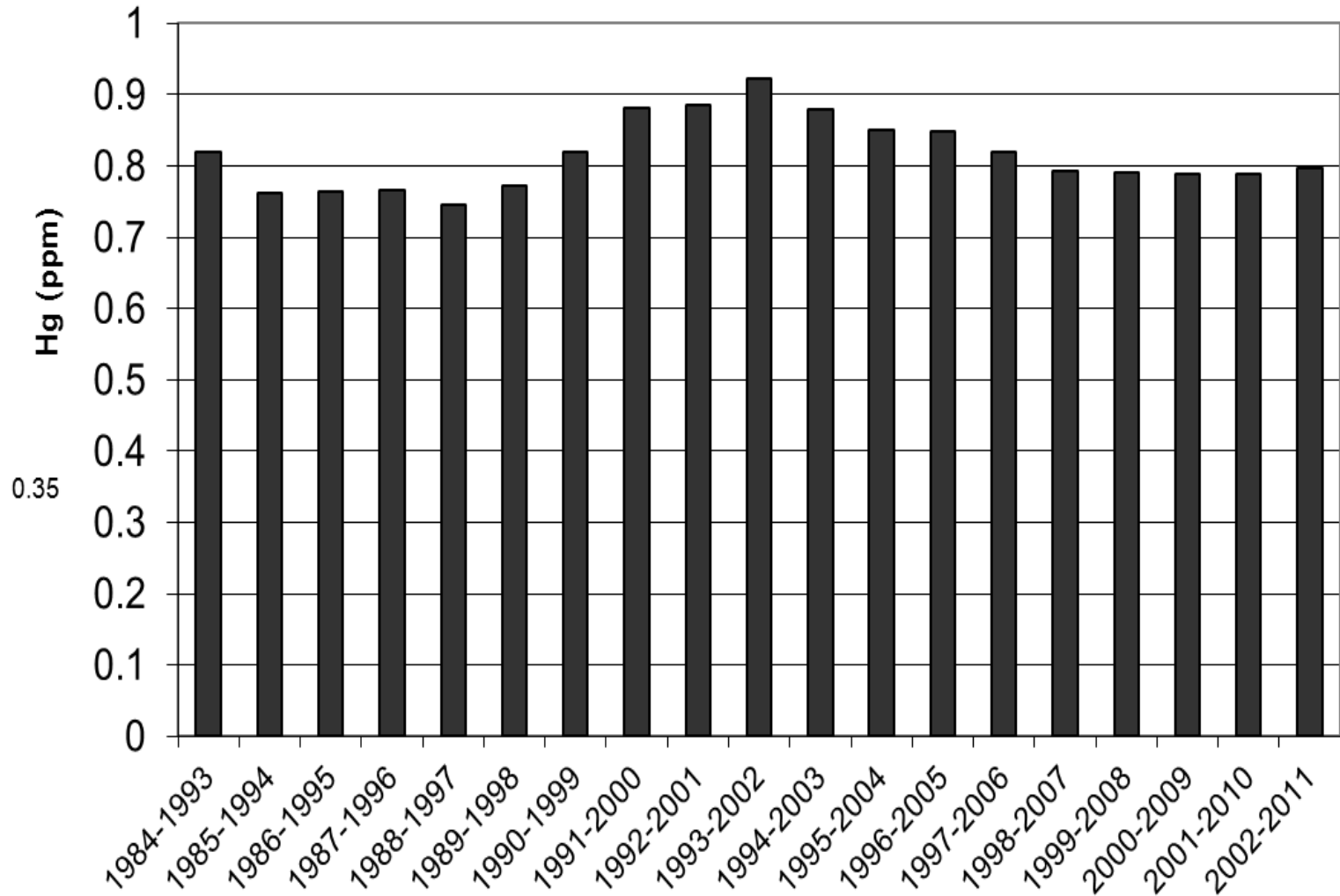
Comparison of Michigan CSO/Untreated to RTB Discharge Volumes



*2019 data projected based on Detroit LTCP to provide disinfection of outfall 050A in 2019. Quantities based on average annual volumes using data from 2006-2012.

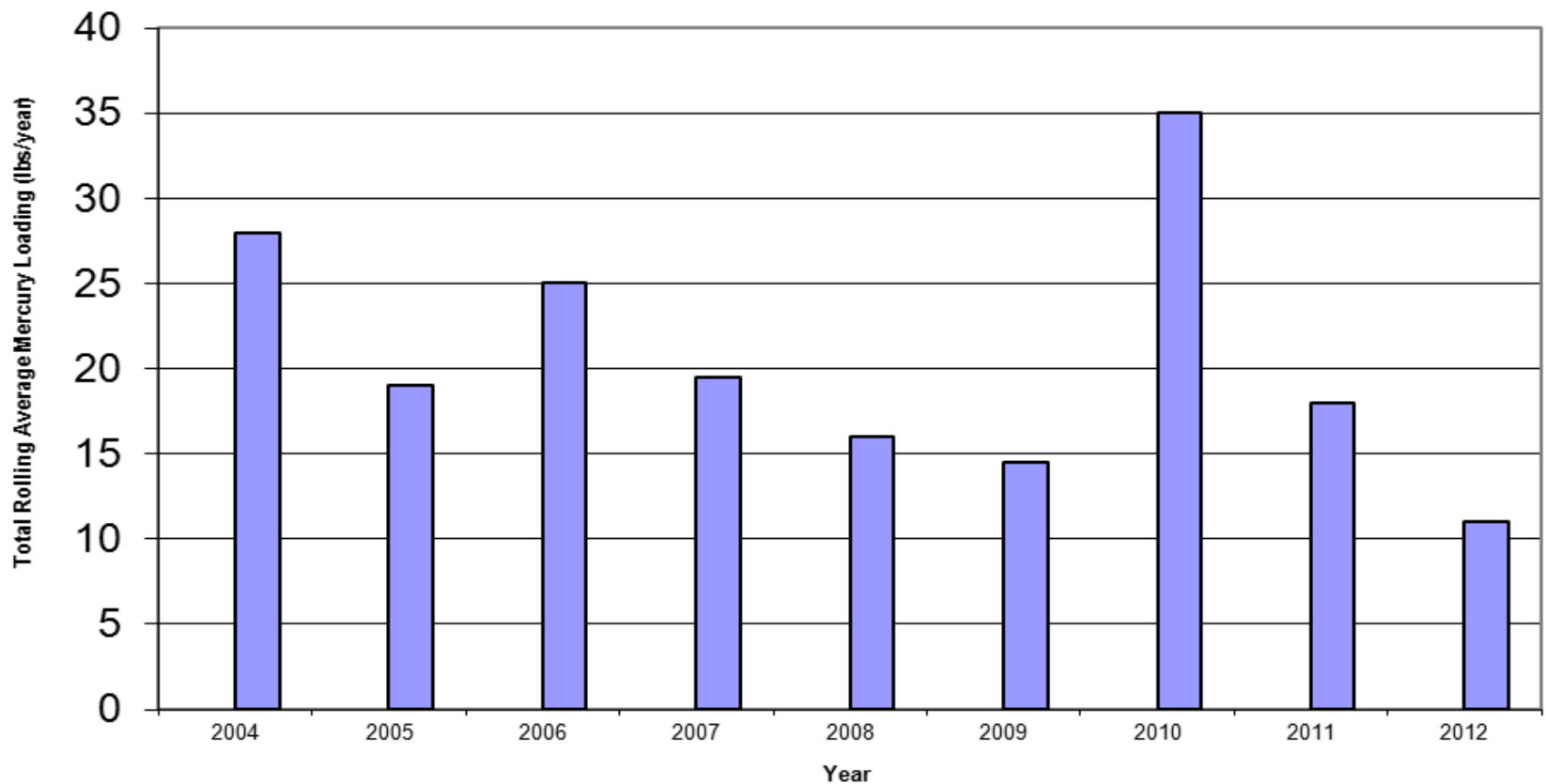
Mercury

90th % Northern Pike Hg Concentrations (10 Yr Increments)



Mercury

Nine Years of Total Annual Mercury Data from Eleven Wastewater Treatment Plants



Permitting

- 35,000 permits in WRD
- 9,500 permit decisions per year
- 180 permit decisions per week
- Complex permits – all you hear about
- NPDES permit backlog emphasis

Inspections

- Over 3,500 per year
- About 10% of total permits
- Reports = 60,000 per year
- Compliance > 90%



Relationships and Stewardship

- Focus on excellent customer service
- Every transaction is an opportunity
- Partners in environmental stewardship

