



Friends of Casco Bay  
Casco BAYKEEPER

# Nitrogen in Casco Bay

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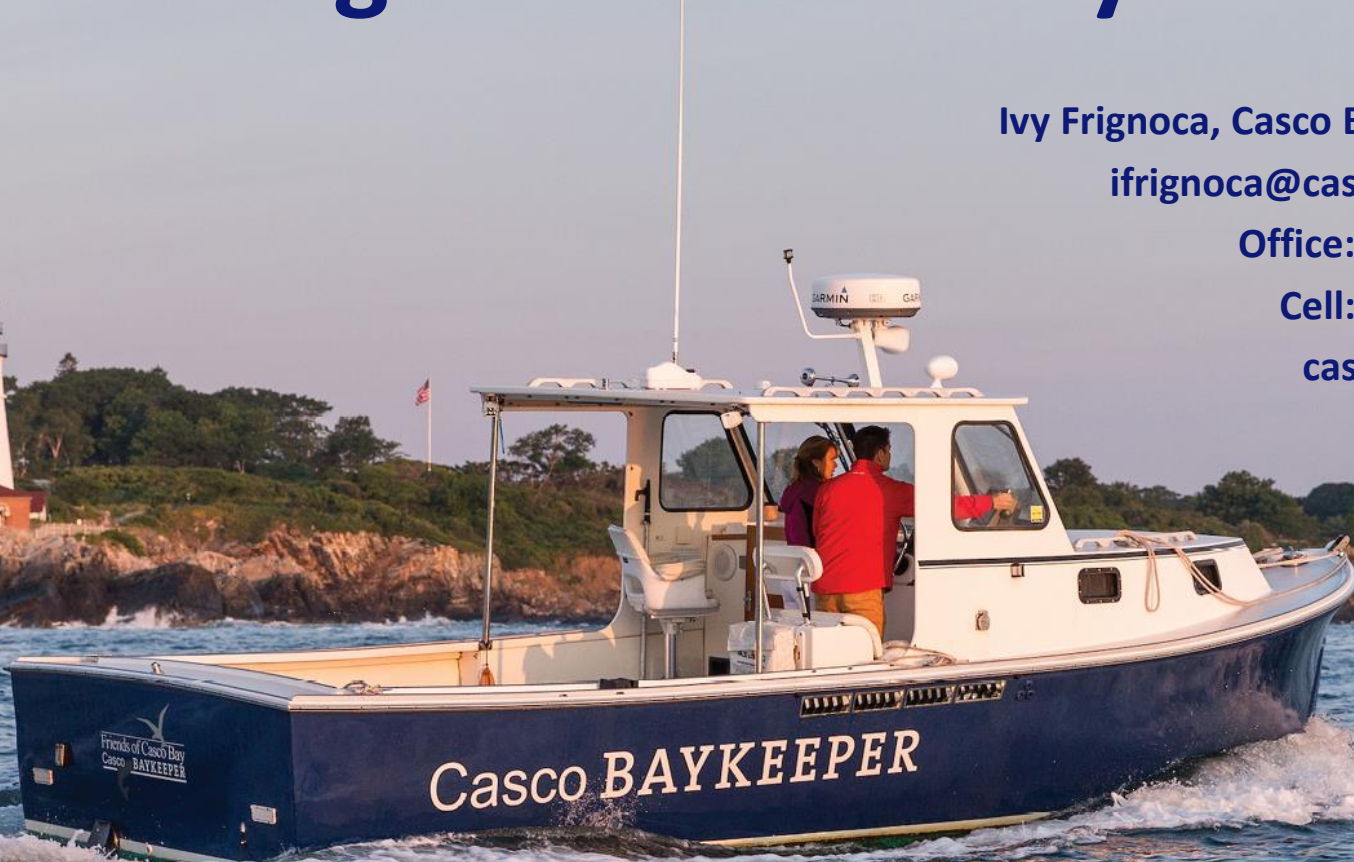


Photo Credit: Kevin Morris





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**Local Effects**

**Our Work**





# Friends of Casco Bay Casco BAYKEEPER Monitoring Sites

★ Continuous Monitoring Station

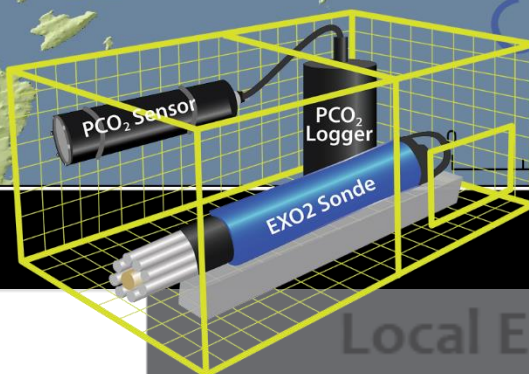
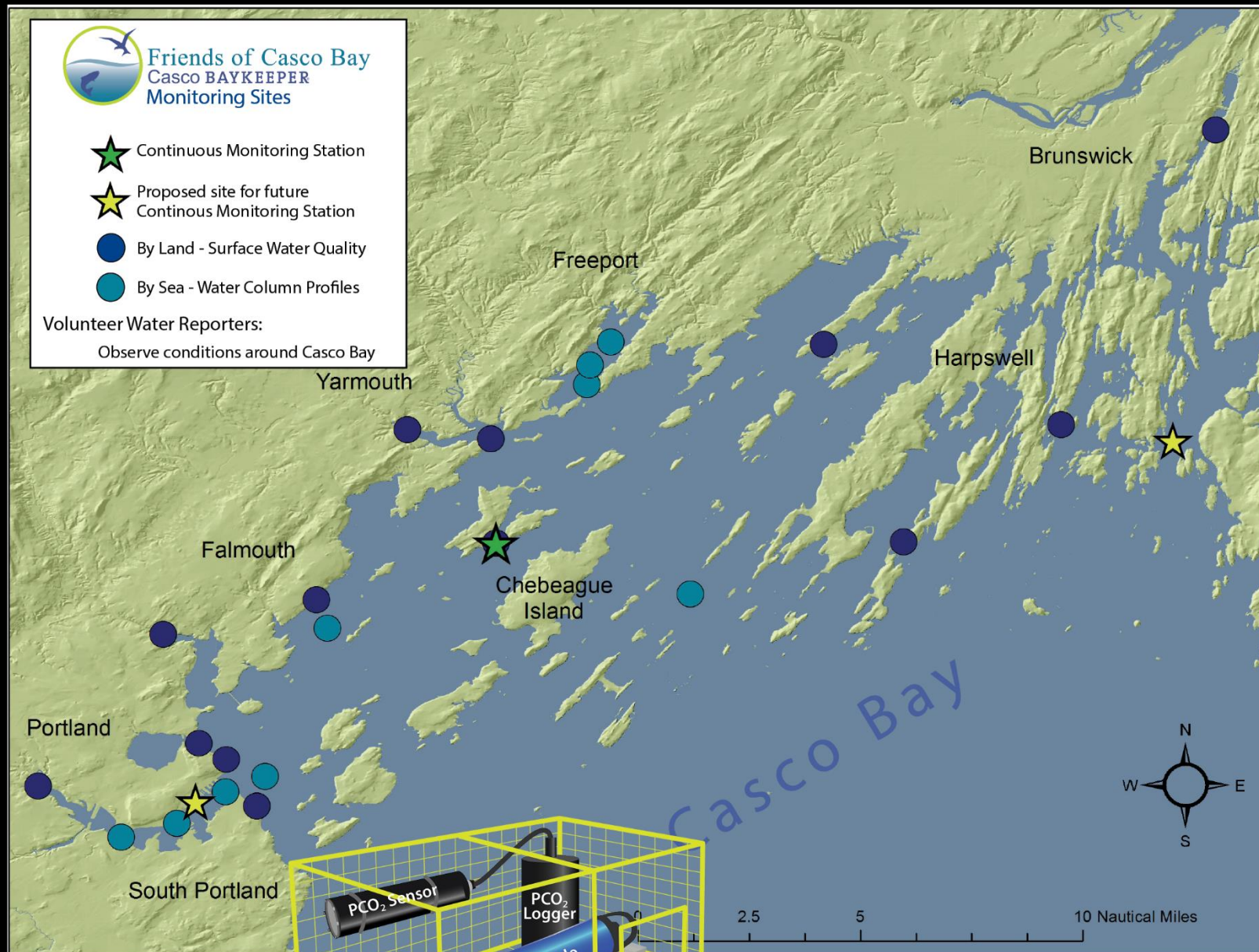
★ Proposed site for future  
Continuous Monitoring Station

● By Land - Surface Water Quality

● By Sea - Water Column Profiles

Volunteer Water Reporters:

Observe conditions around Casco Bay



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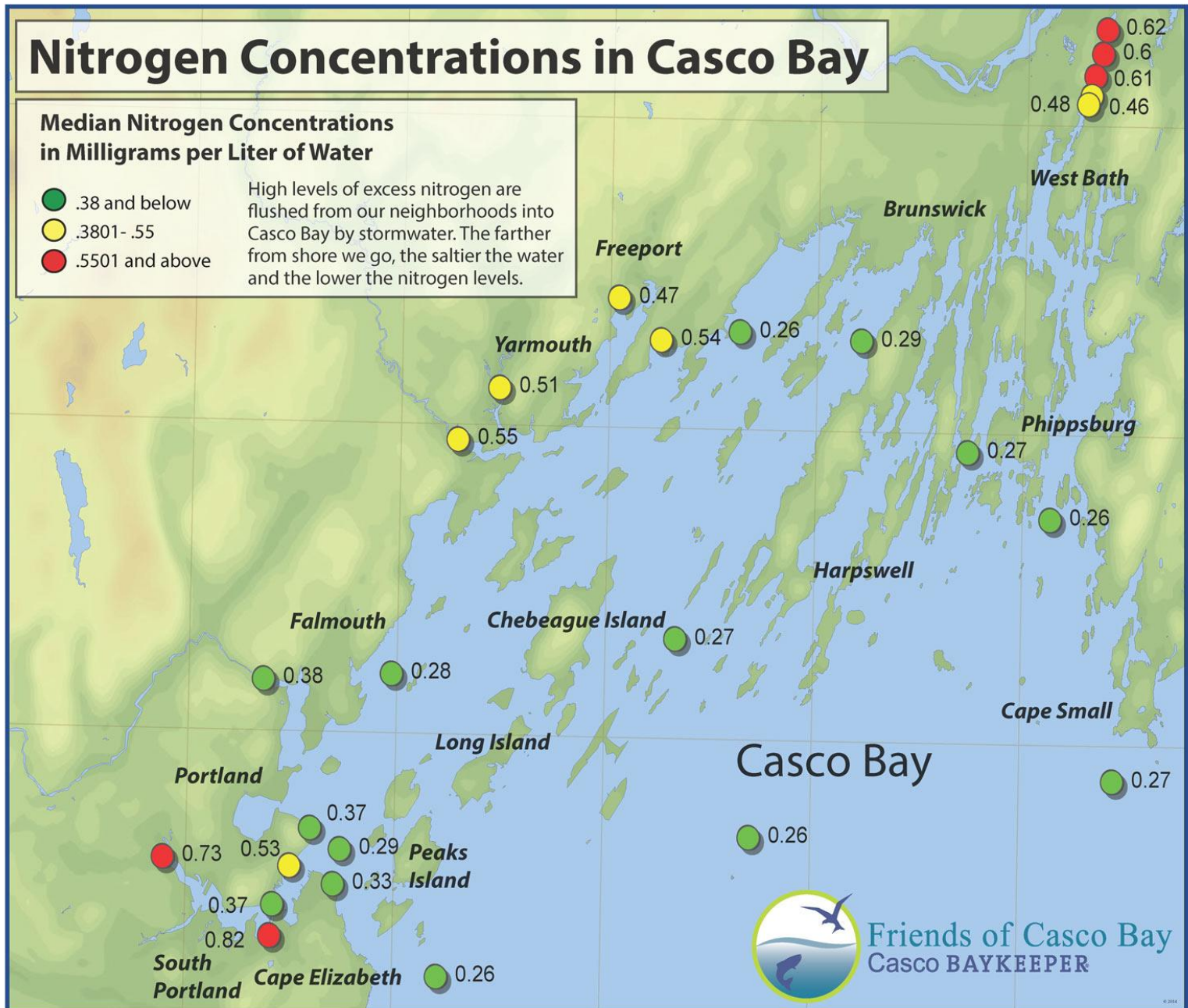


# Nitrogen Concentrations in Casco Bay

## Median Nitrogen Concentrations in Milligrams per Liter of Water

- .38 and below
- .3801- .55
- .5501 and above

High levels of excess nitrogen are flushed from our neighborhoods into Casco Bay by stormwater. The farther from shore we go, the saltier the water and the lower the nitrogen levels.



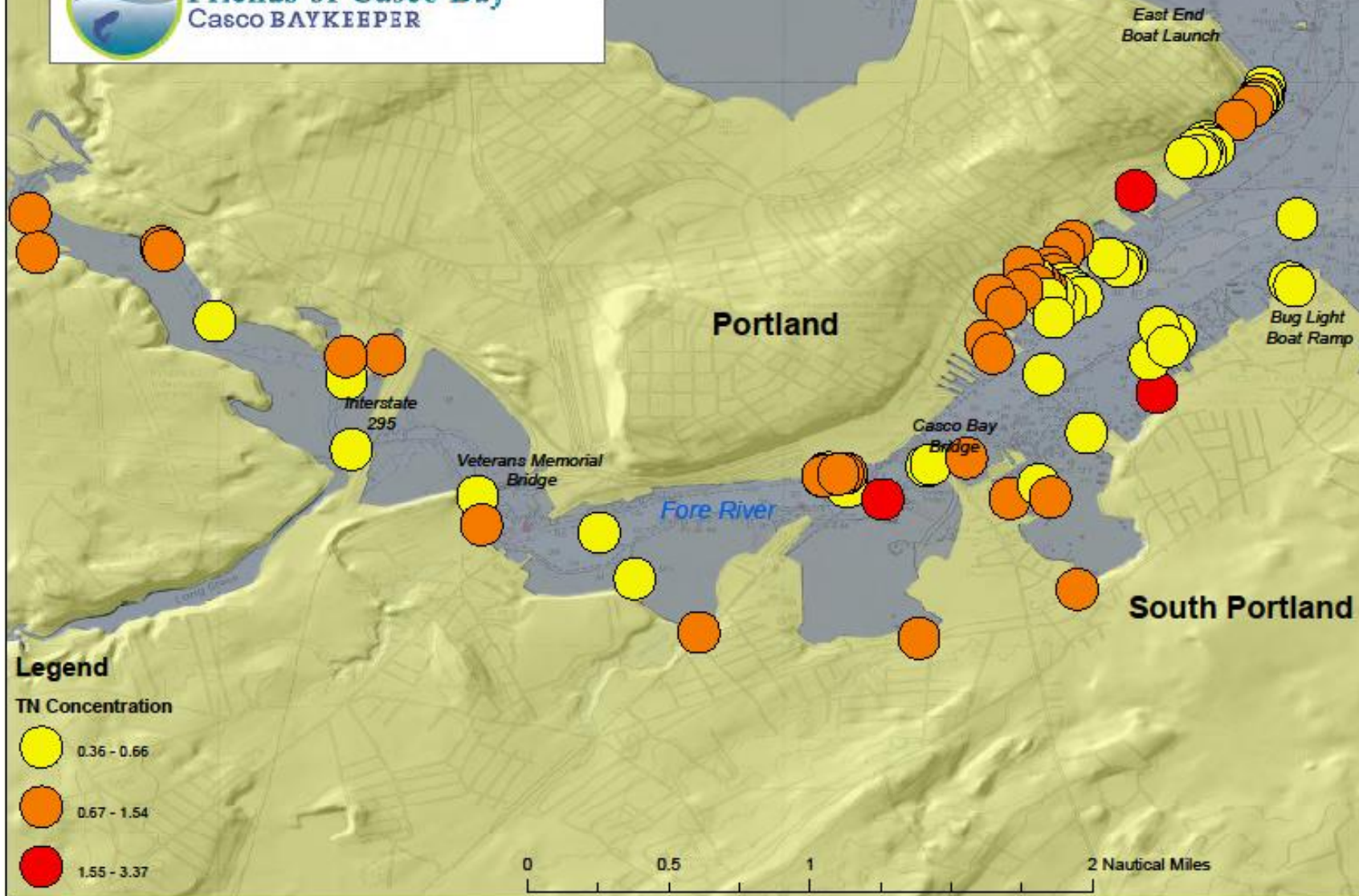
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## Nabbing Nitrogen - Results (mg N/l)



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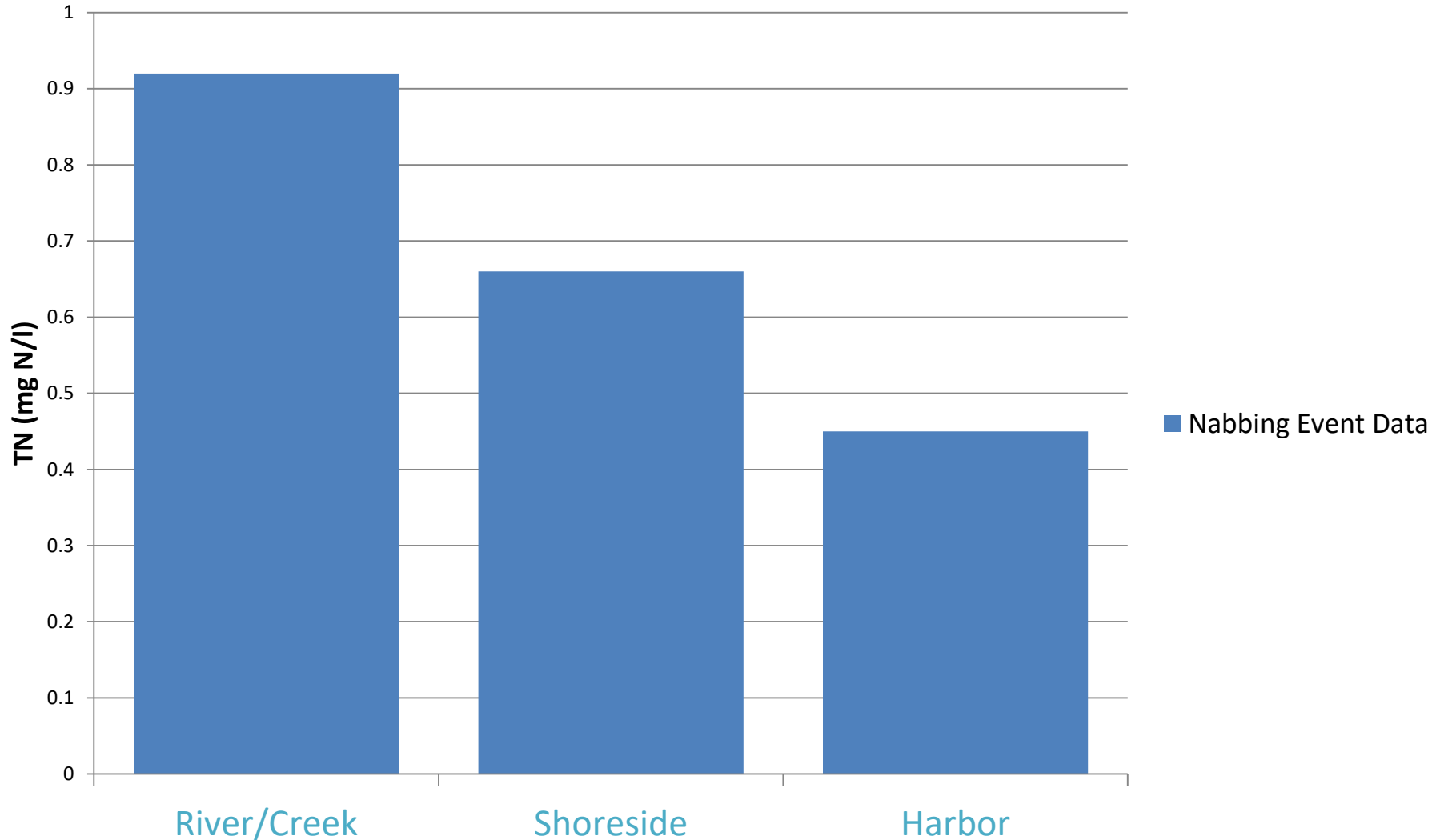
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# Median Concentrations



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**Sediment pH 7.16  
to 6.4 in a week**



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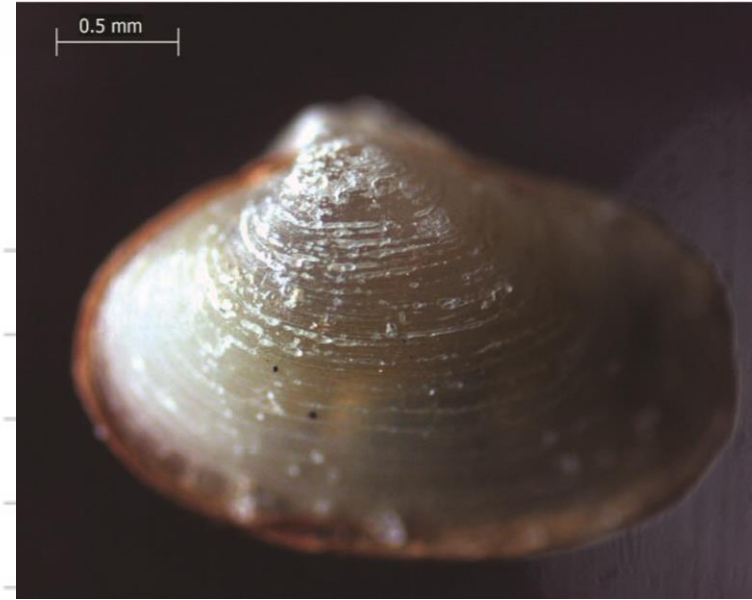
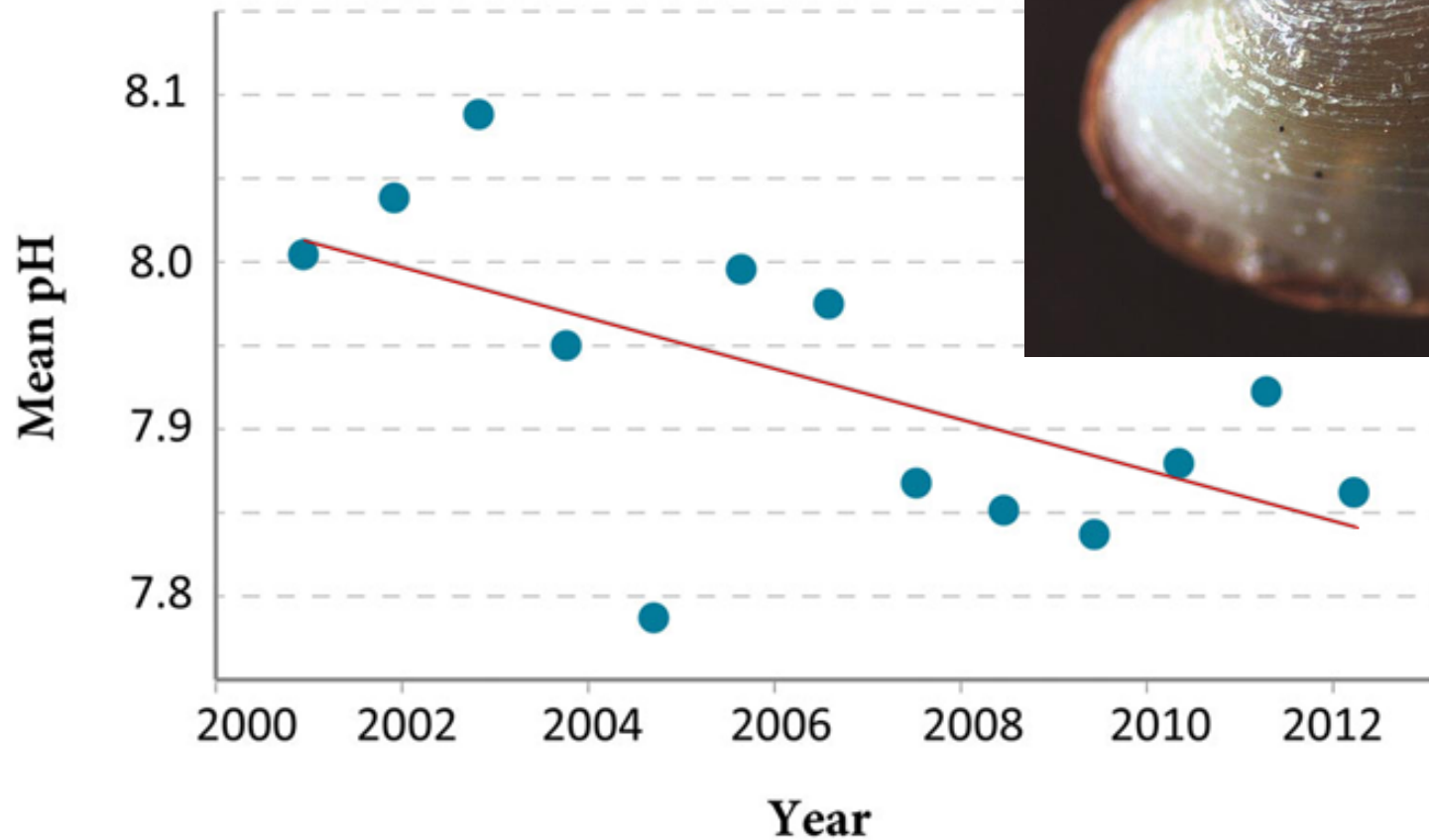
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### Sentinel Sites Data Trend in pH: 2001-2013







Climate Change

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# Blue Portland: Integrated Planning

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# Urban Impaired Streams



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# Local solutions: fertilizer ordinances

LOCAL & STATE

Posted April 12

## South Portland considers limits on fertilizer use

The city set regulations for pesticide use and is now discussing banning or limiting the use of synthetic fertilizers.

BY DAVID HARRY THE FORECASTER

**SOUTH PORTLAND** — Three years after South Portland passed an ordinance governing the use of pesticides, city officials are considering a set of companion regulations on the use of fertilizers.

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## Another BayScaper

keeping pesticides & fertilizers  
out of Casco Bay



[cascobay.org/bayse](http://cascobay.org/bayse)

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# Maine Ocean and Coastal Acidification Partnership



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# Maine Climate Council

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# Thank you

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