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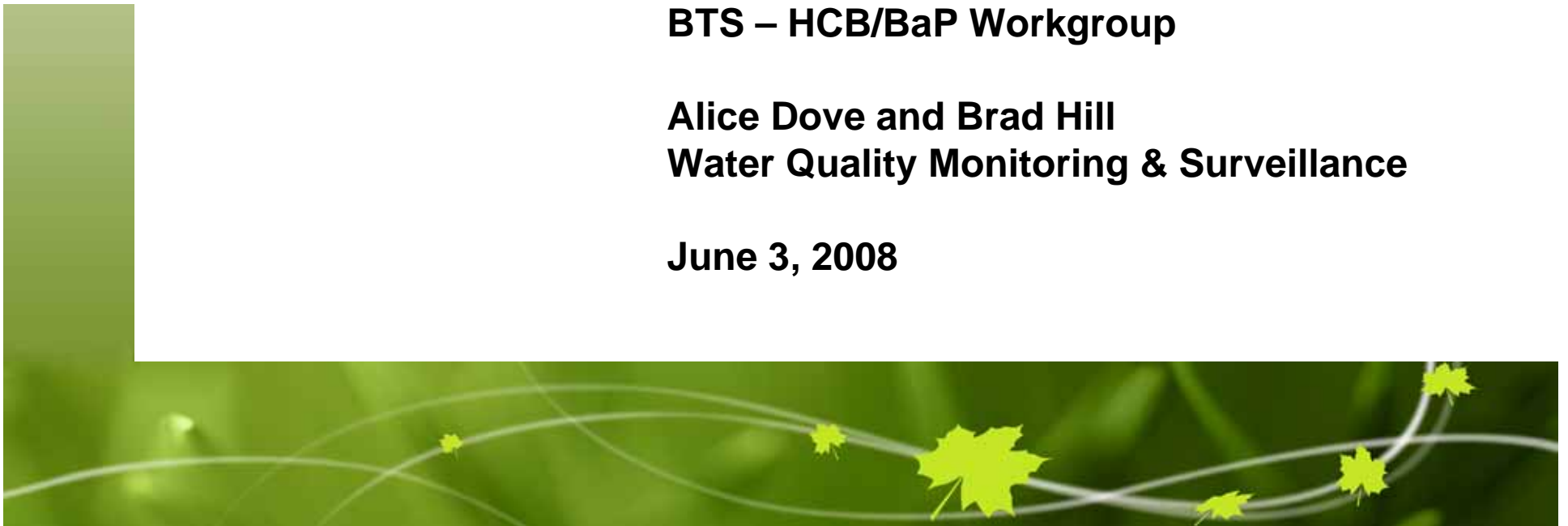
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# Status Update of HCB/BaP Monitoring Information in the Great Lakes




**BTS – HCB/BaP Workgroup**

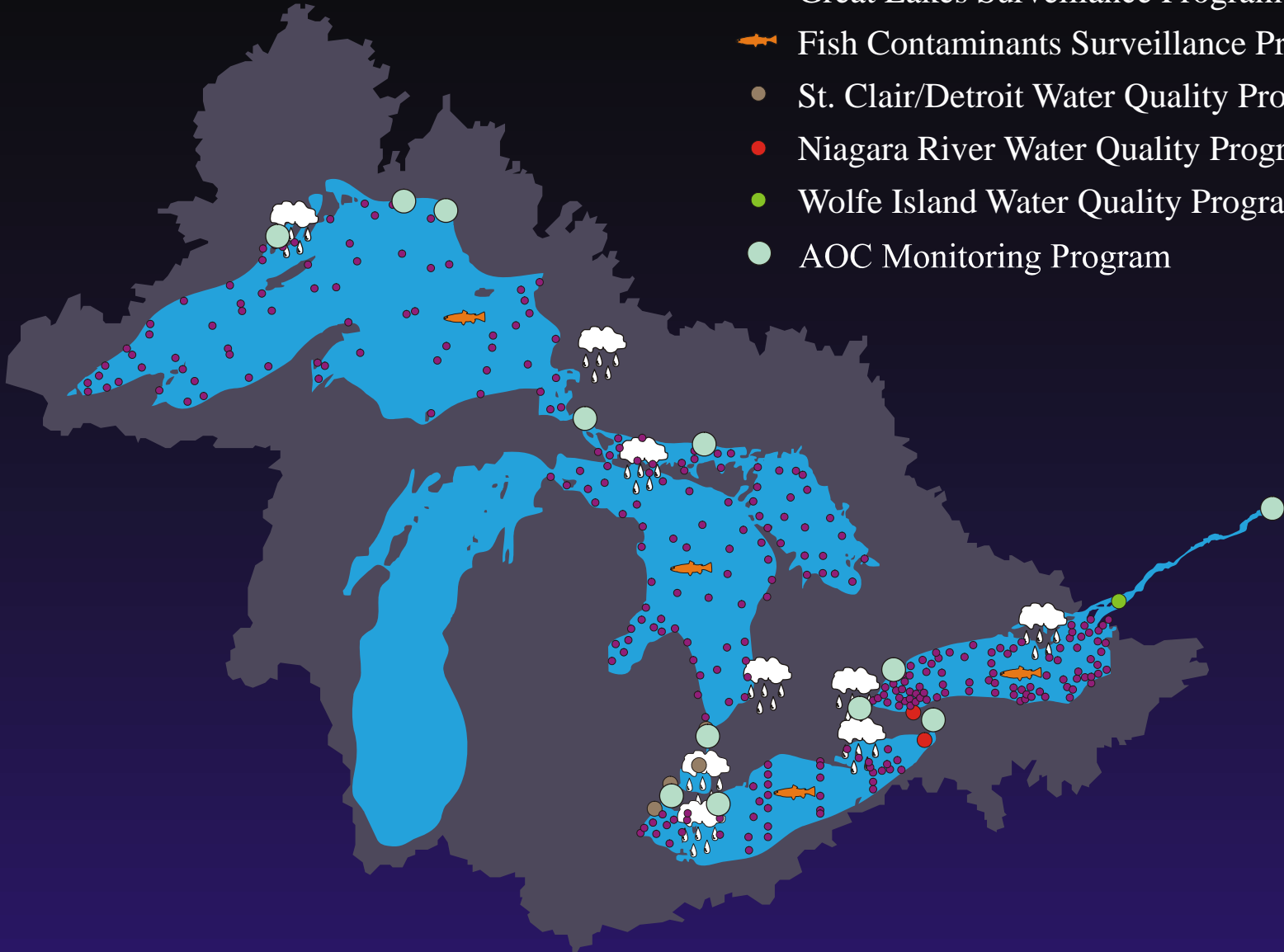
**Alice Dove and Brad Hill  
Water Quality Monitoring & Surveillance**

**June 3, 2008**



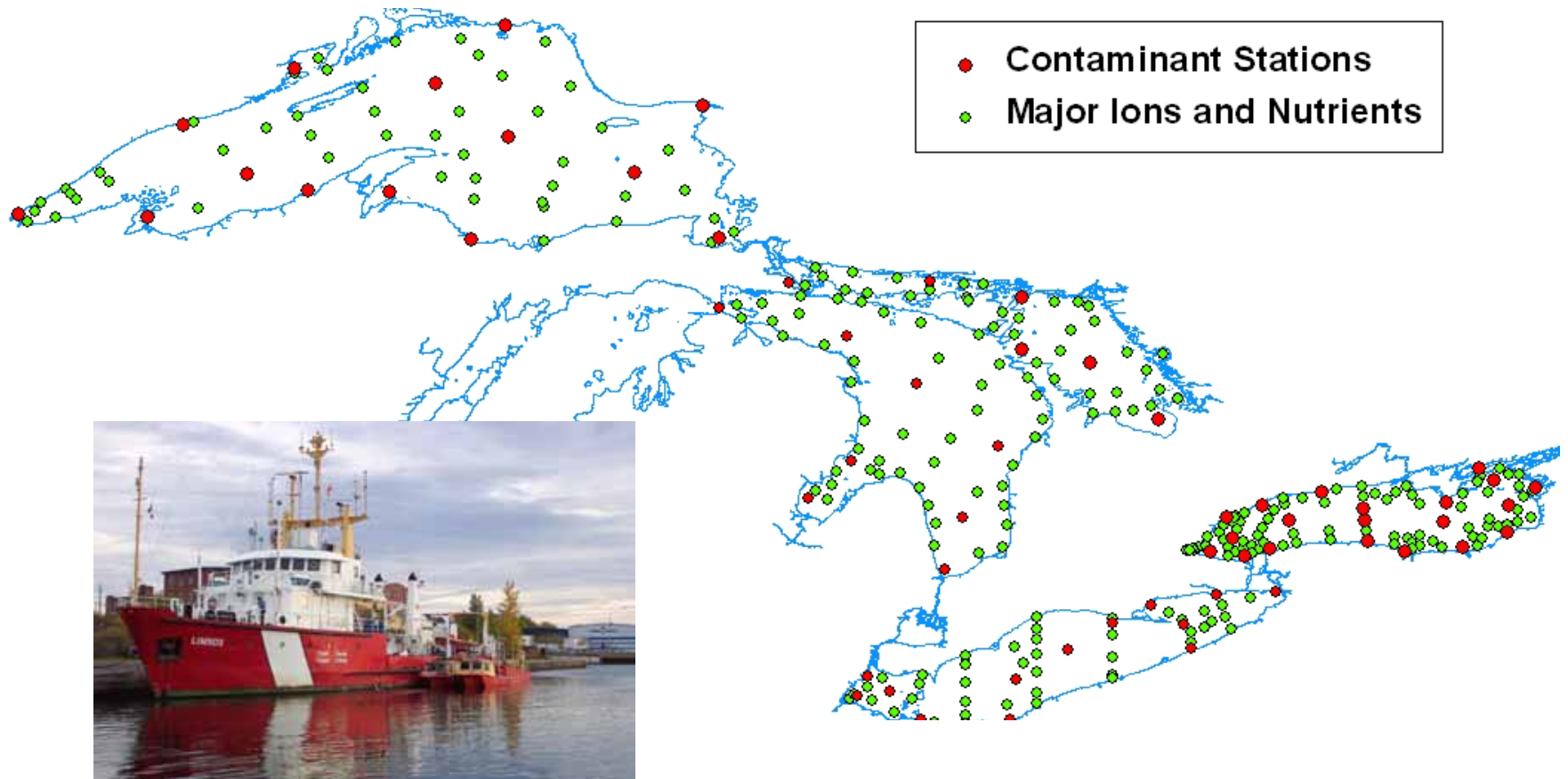
# Ontario

-  Great Lakes Precipitation Network
-  Great Lakes Surveillance Program
-  Fish Contaminants Surveillance Program
-  St. Clair/Detroit Water Quality Program
-  Niagara River Water Quality Program
-  Wolfe Island Water Quality Program
-  AOC Monitoring Program

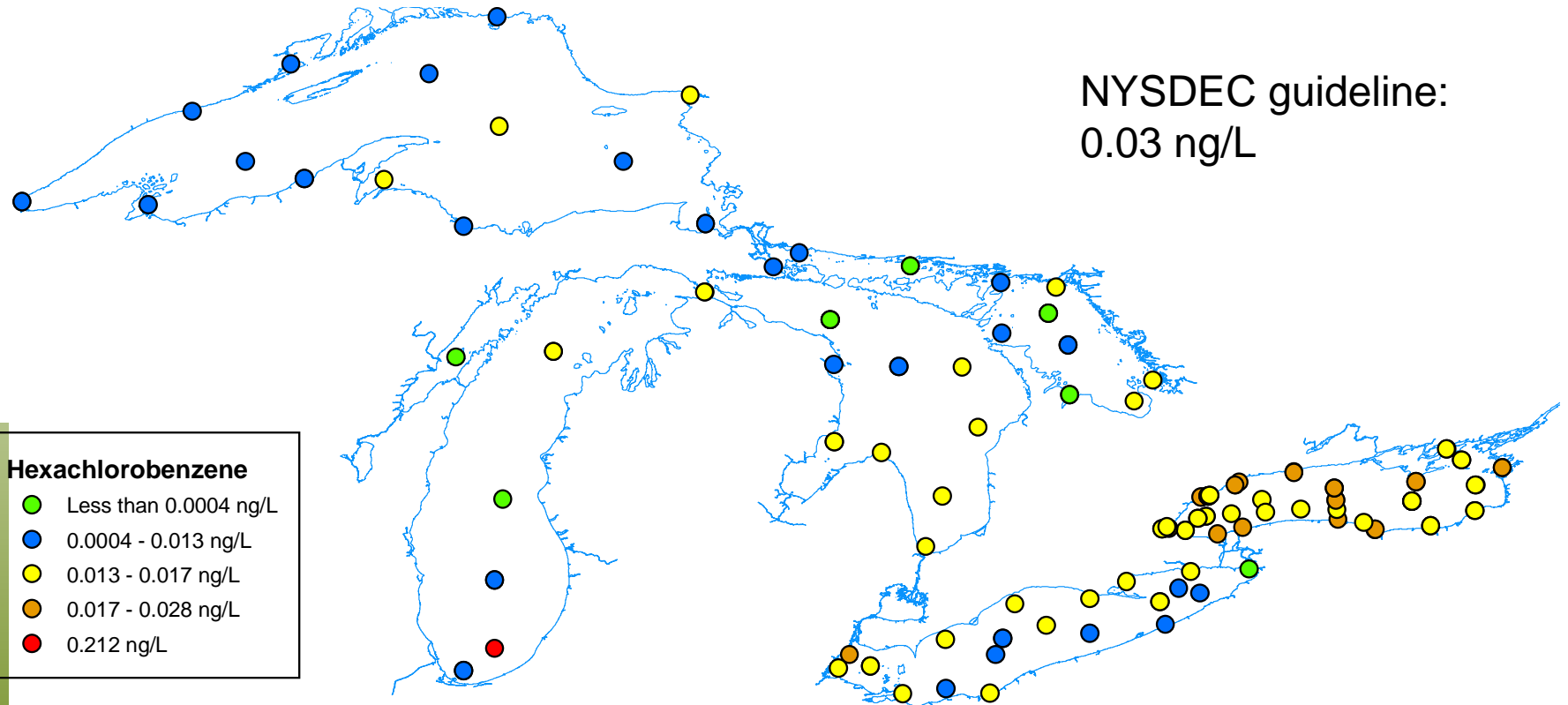


Monitoring Programs, Environment Canada  
Water Quality Monitoring and Surveillance, Ontario

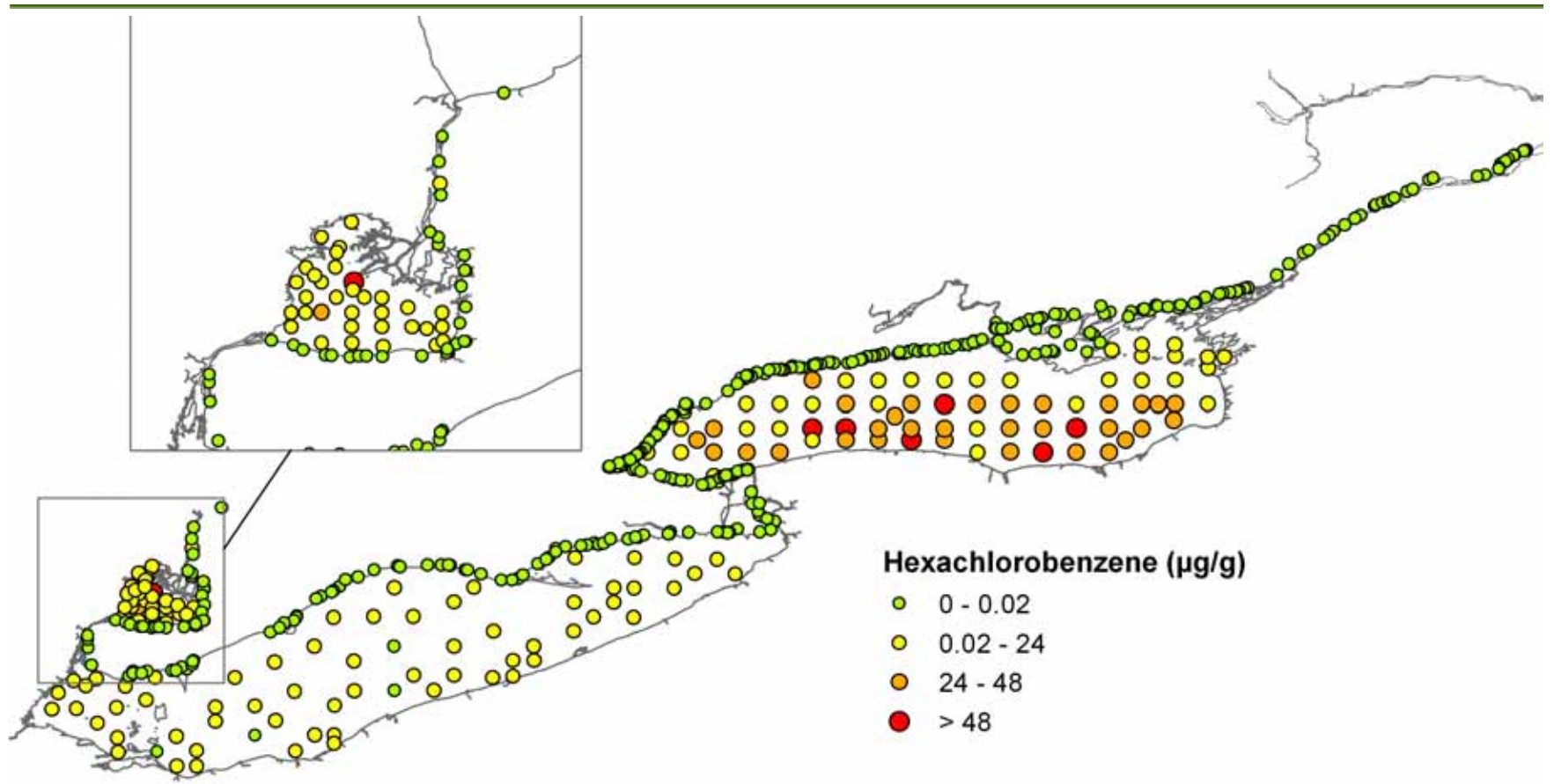
# Great Lakes Surveillance Program



# HCB in Great Lakes Water



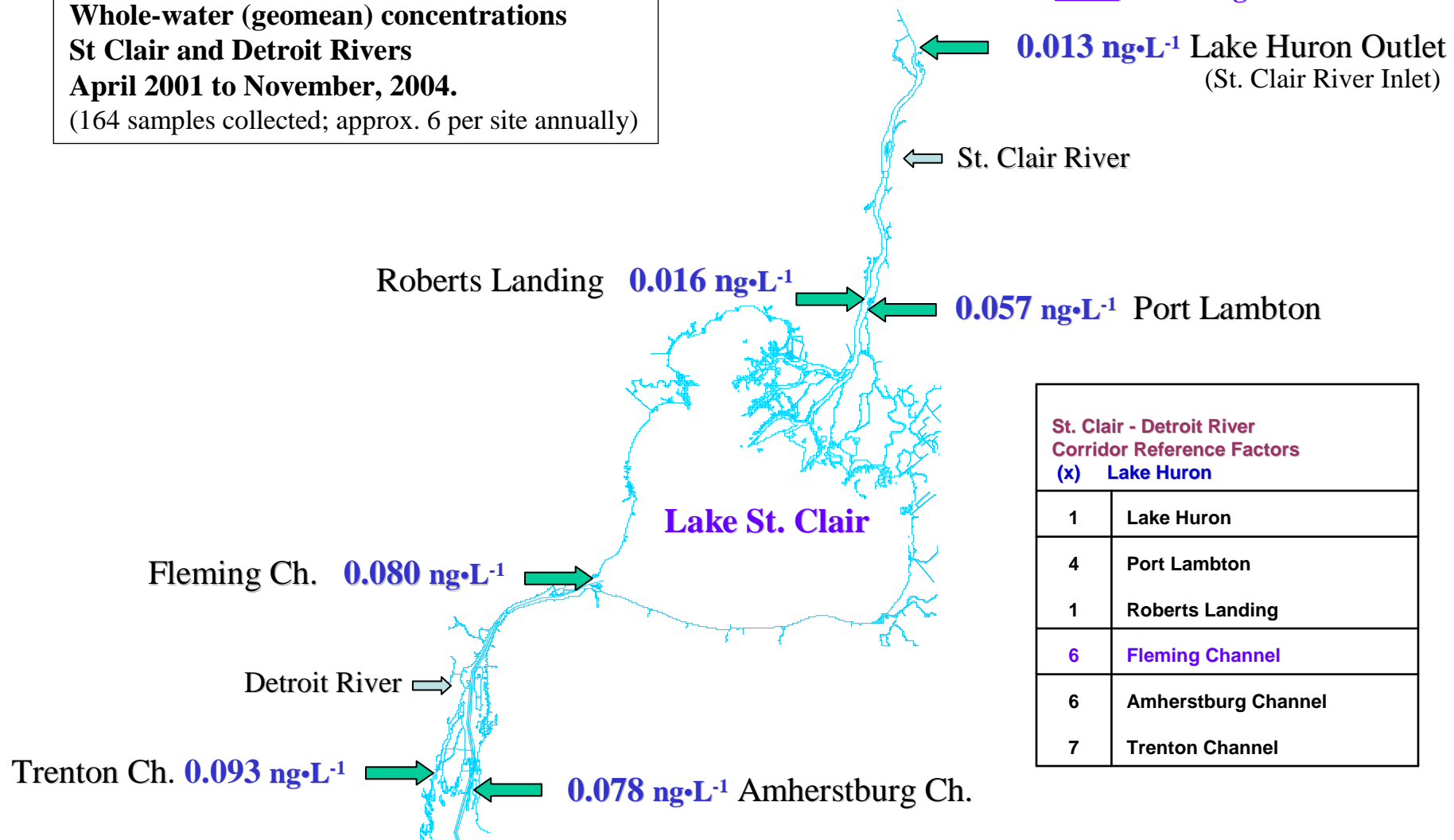
# HCB in Bottom Sediment



# Hexachlorobenzene (HCB)

**Whole-water (geomean) concentrations  
St Clair and Detroit Rivers  
April 2001 to November, 2004.**  
(164 samples collected; approx. 6 per site annually)

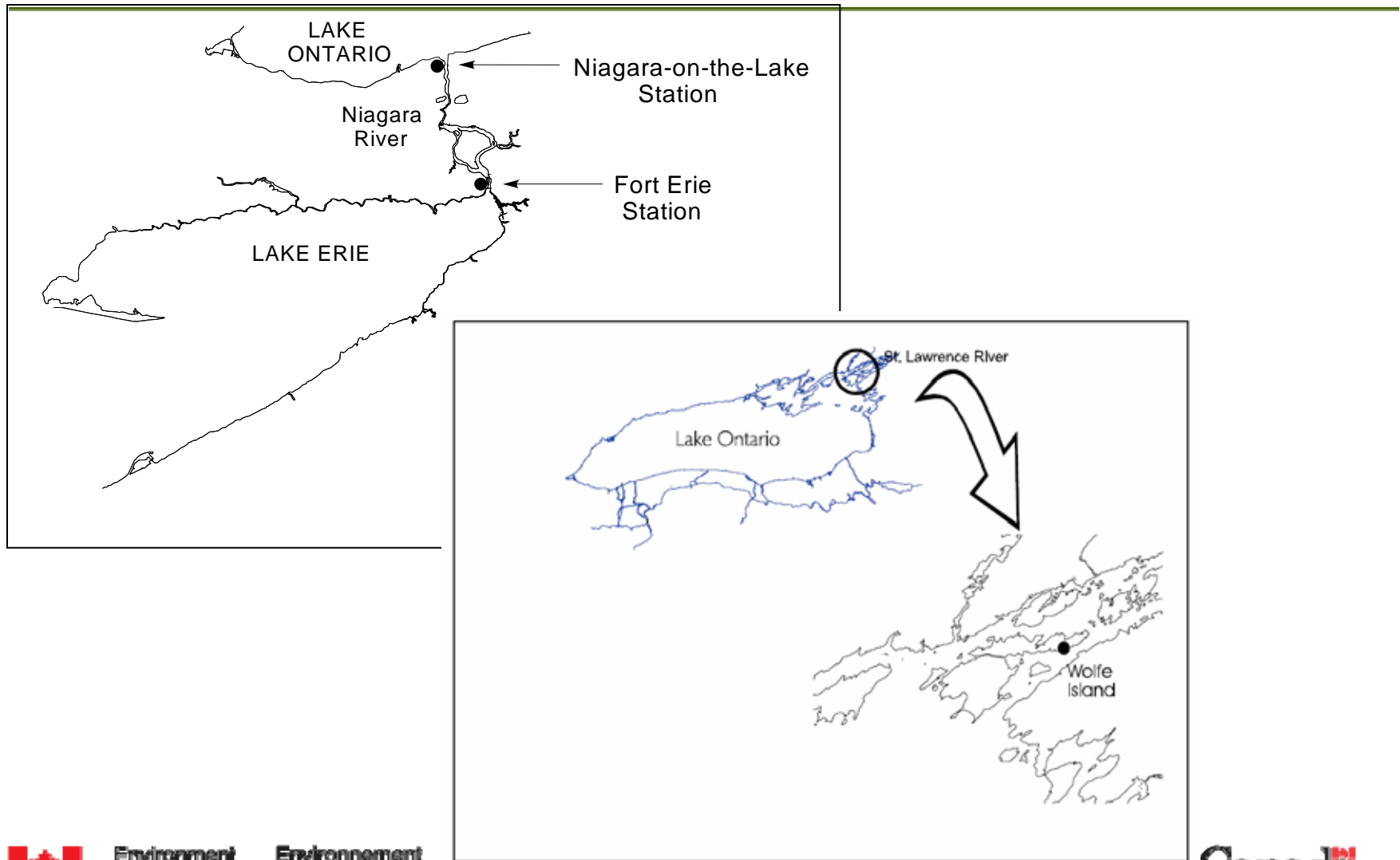
Analyses : AXYS Analytical  
MRL = 0.011 ng•L<sup>-1</sup>



St. Clair - Detroit River Corridor Reference Factors (x) Lake Huron	
1	Lake Huron
4	Port Lambton
1	Roberts Landing
6	Fleming Channel
6	Amherstburg Channel
7	Trenton Channel

**MDEQ, Wildlife Value: 0.3 ng•L<sup>-1</sup>    Human Cancer Value (Drink) 0.45 ng•L<sup>-1</sup>**

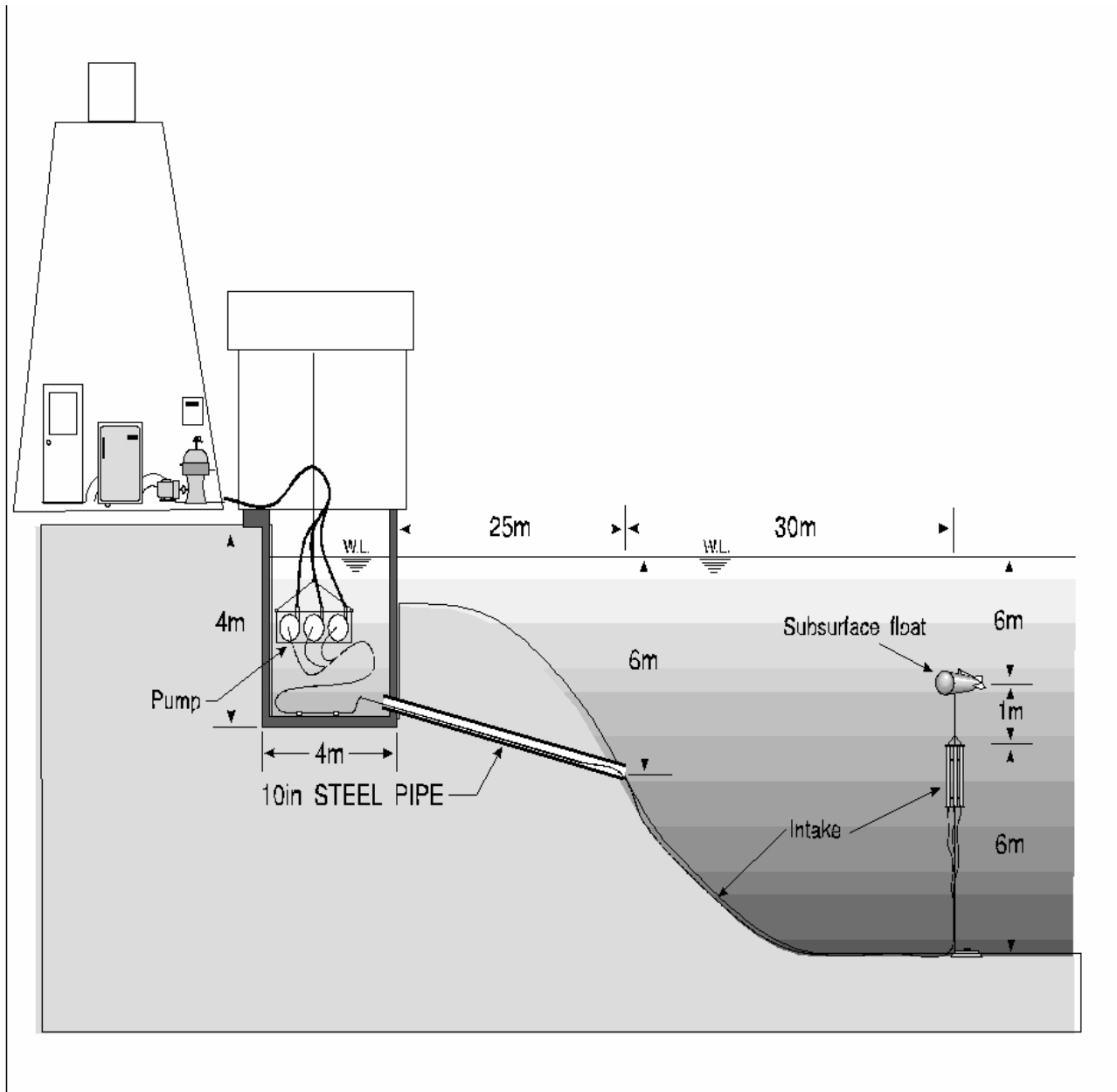
# Niagara River and Wolfe Island



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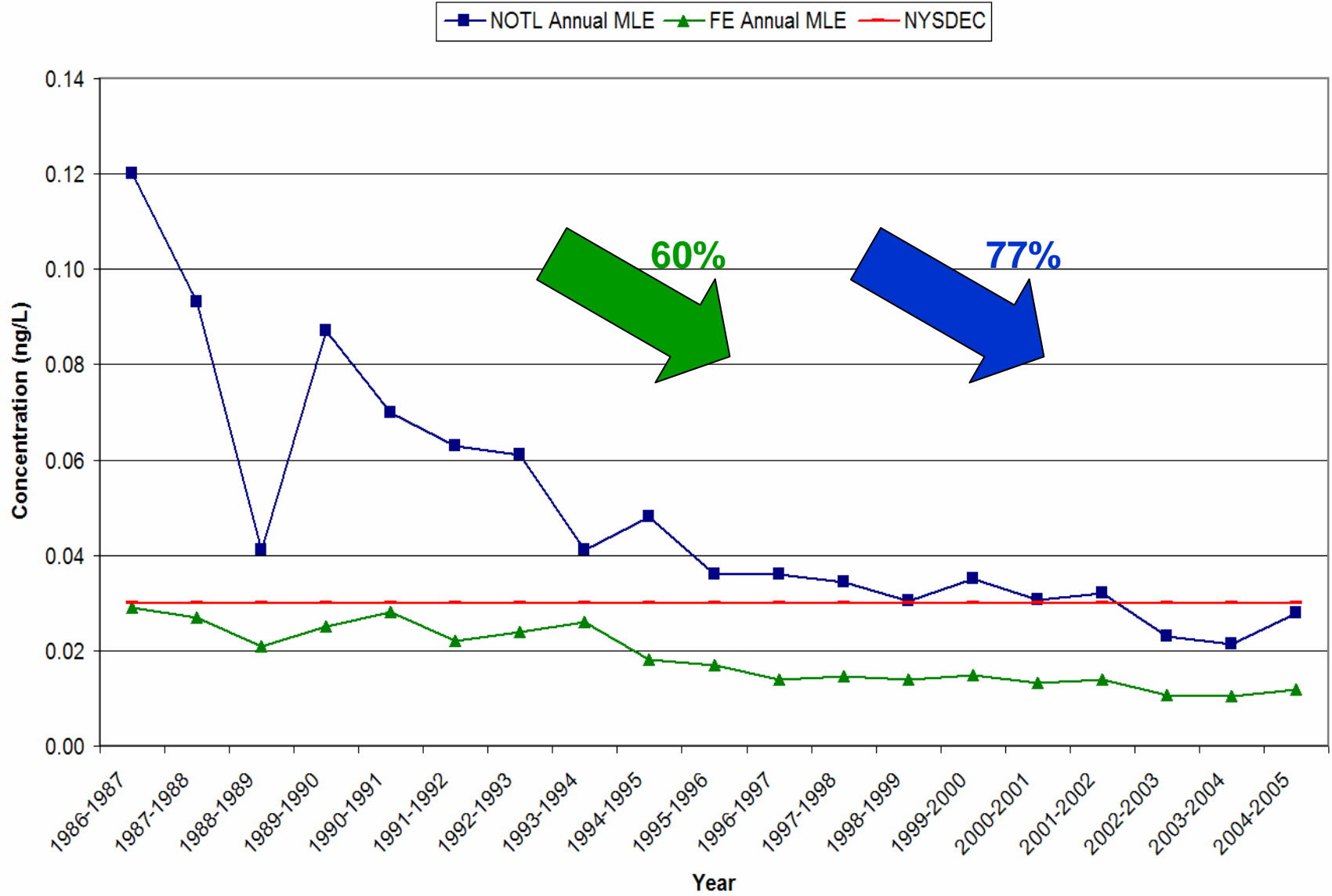
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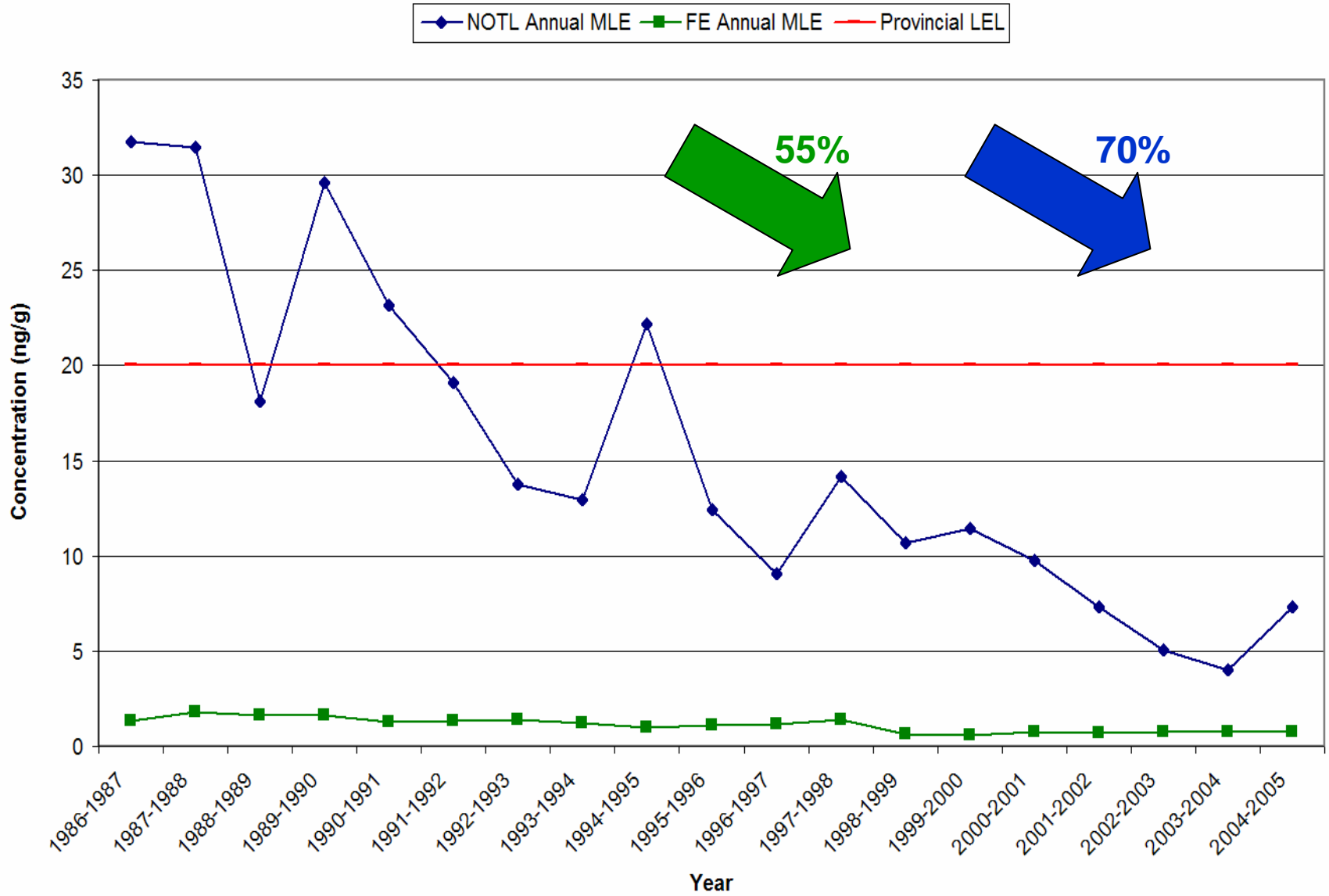




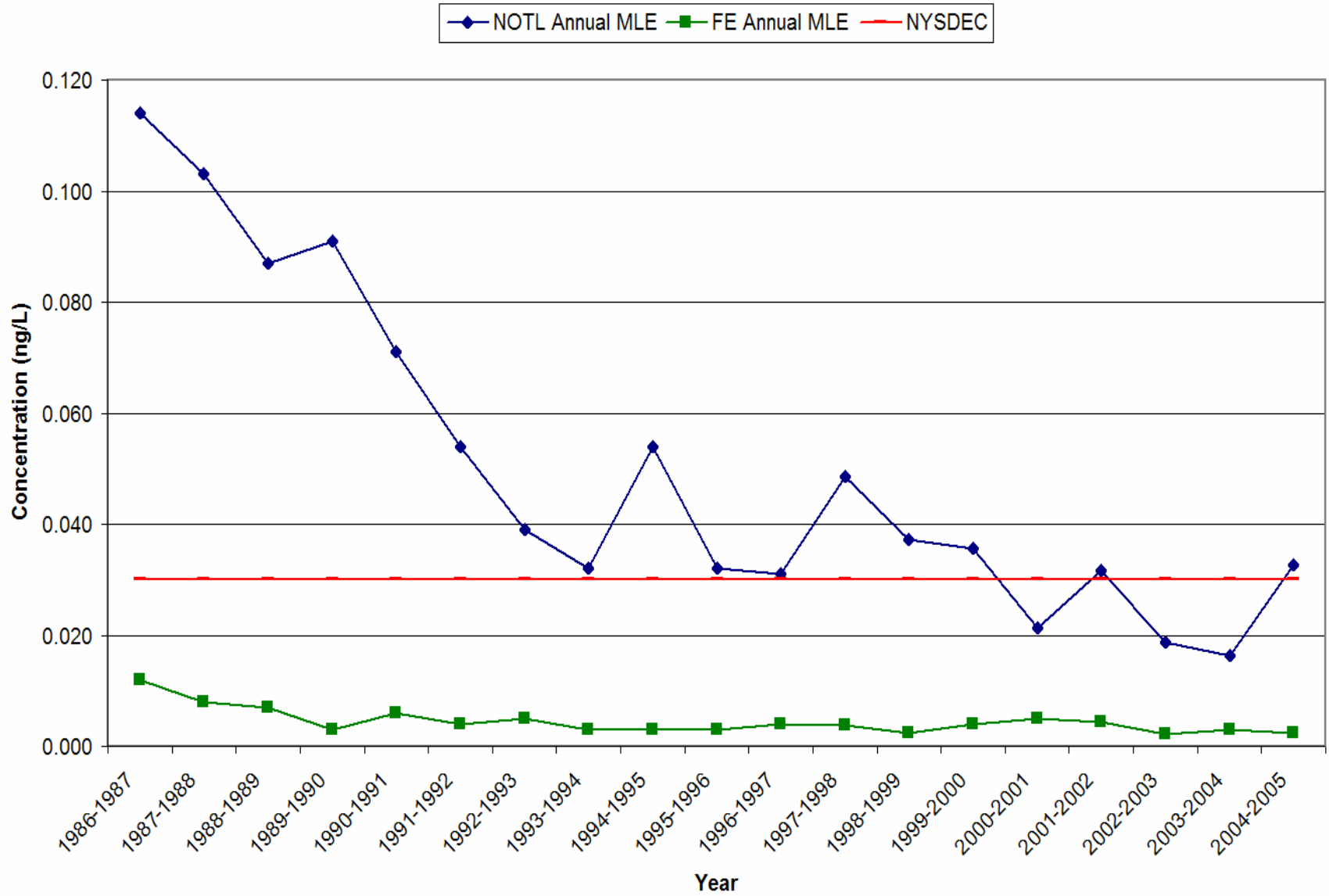
### Niagara River Hexachlorobenzene in Water



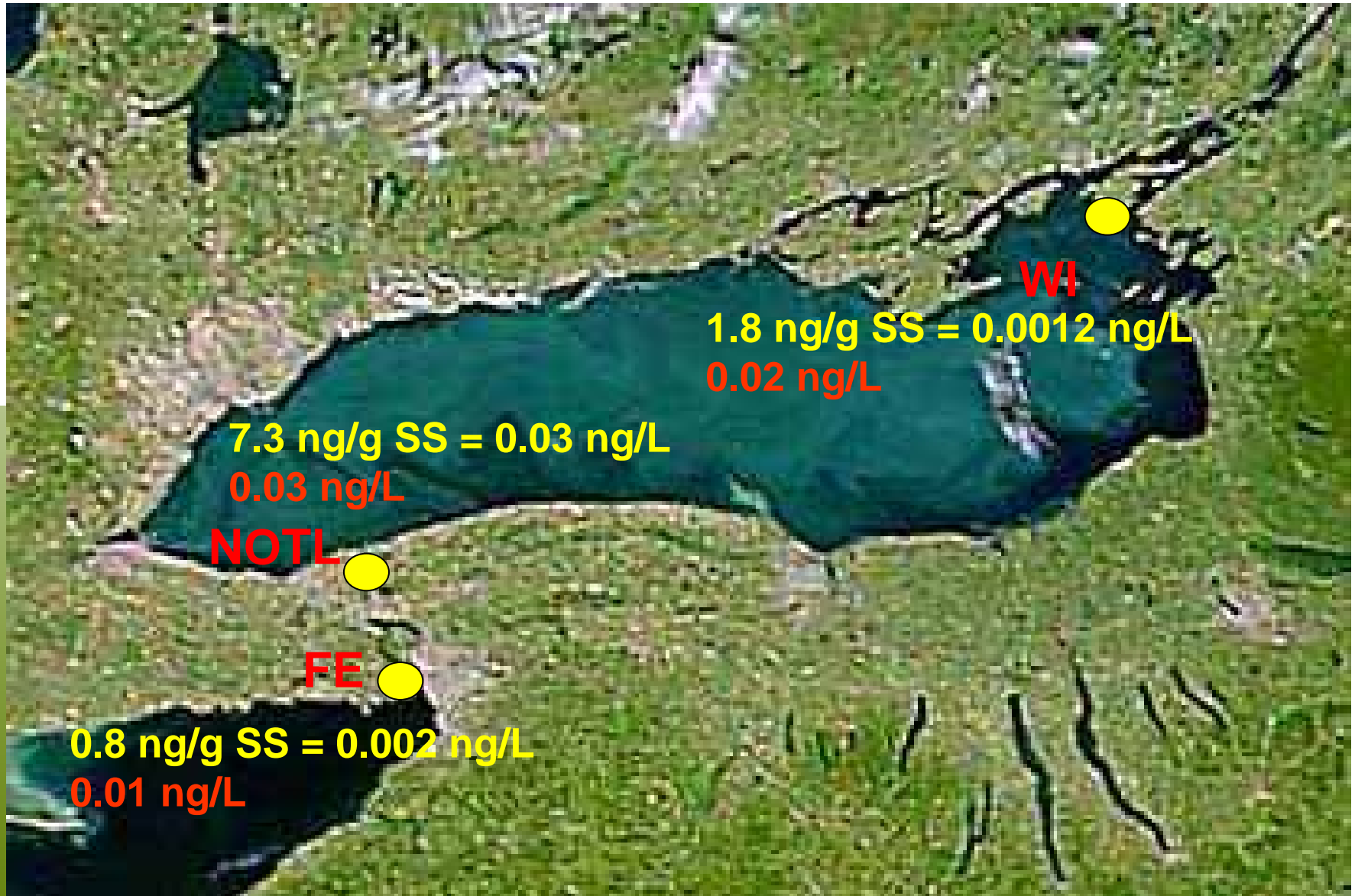
### Niagara River Hexachlorobenzene in Suspended Sediment



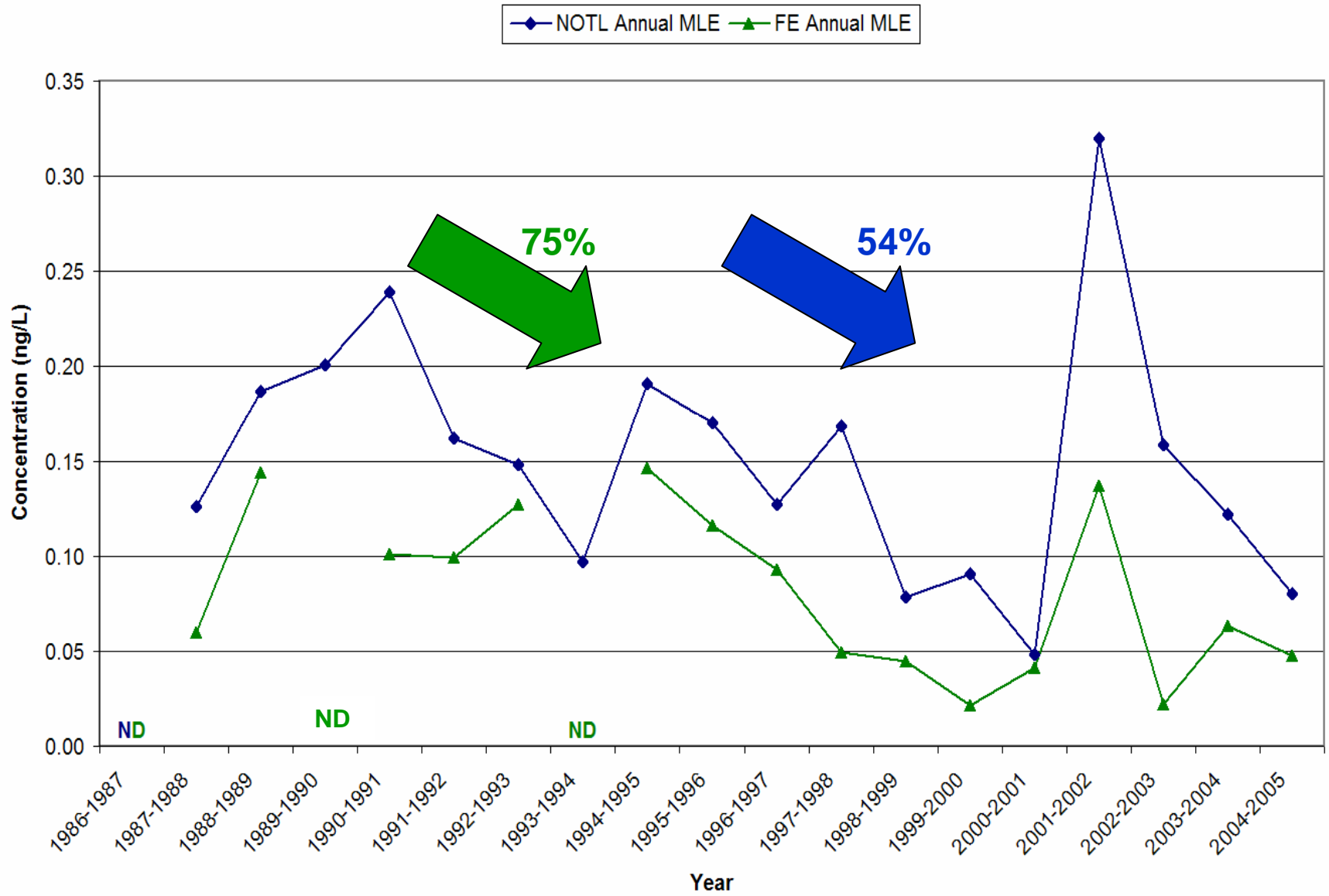
### Niagara River Hexachlorobenzene (SS in Water Equivalents)



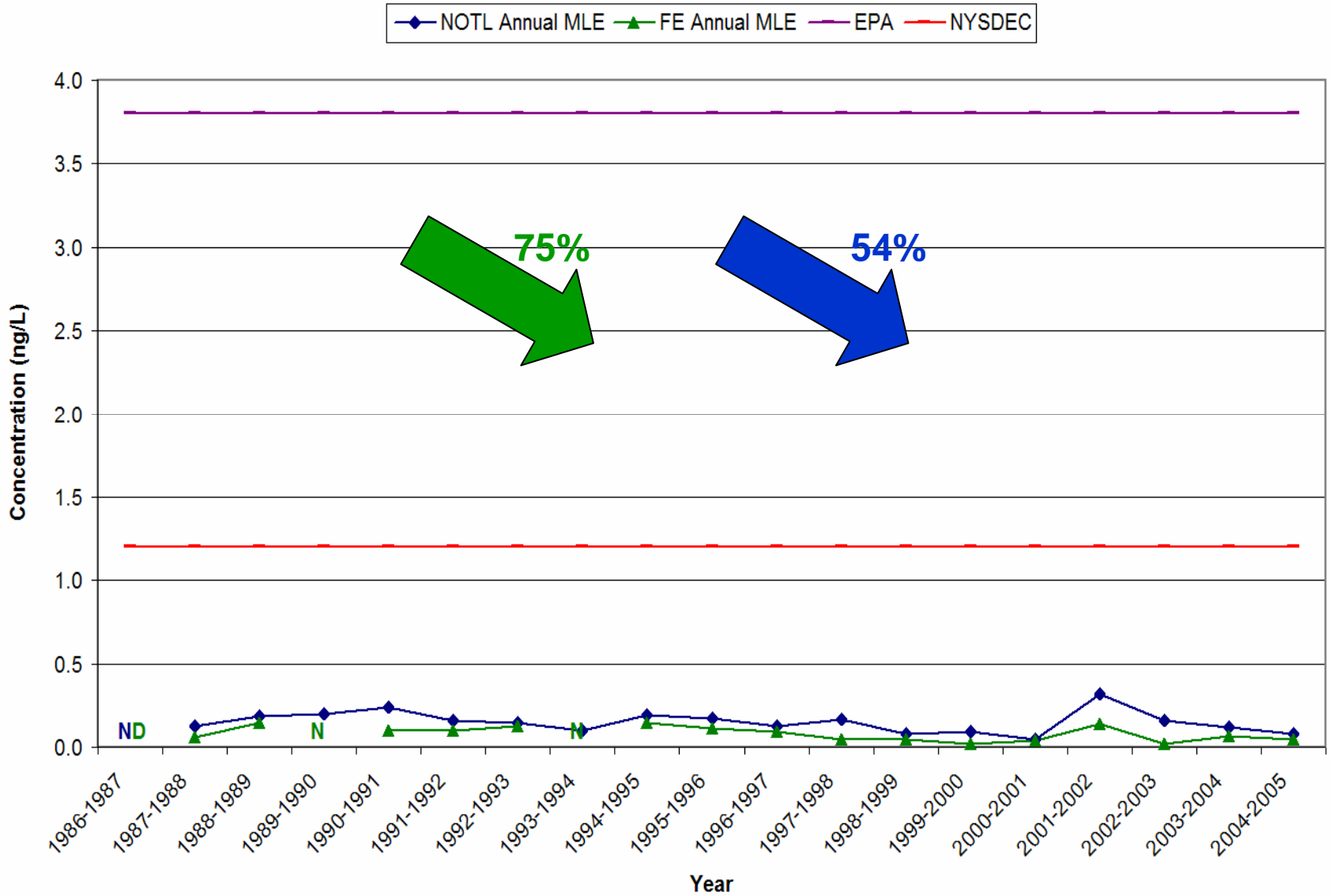
# HCB in Suspended Sediments and Dissolved Phase



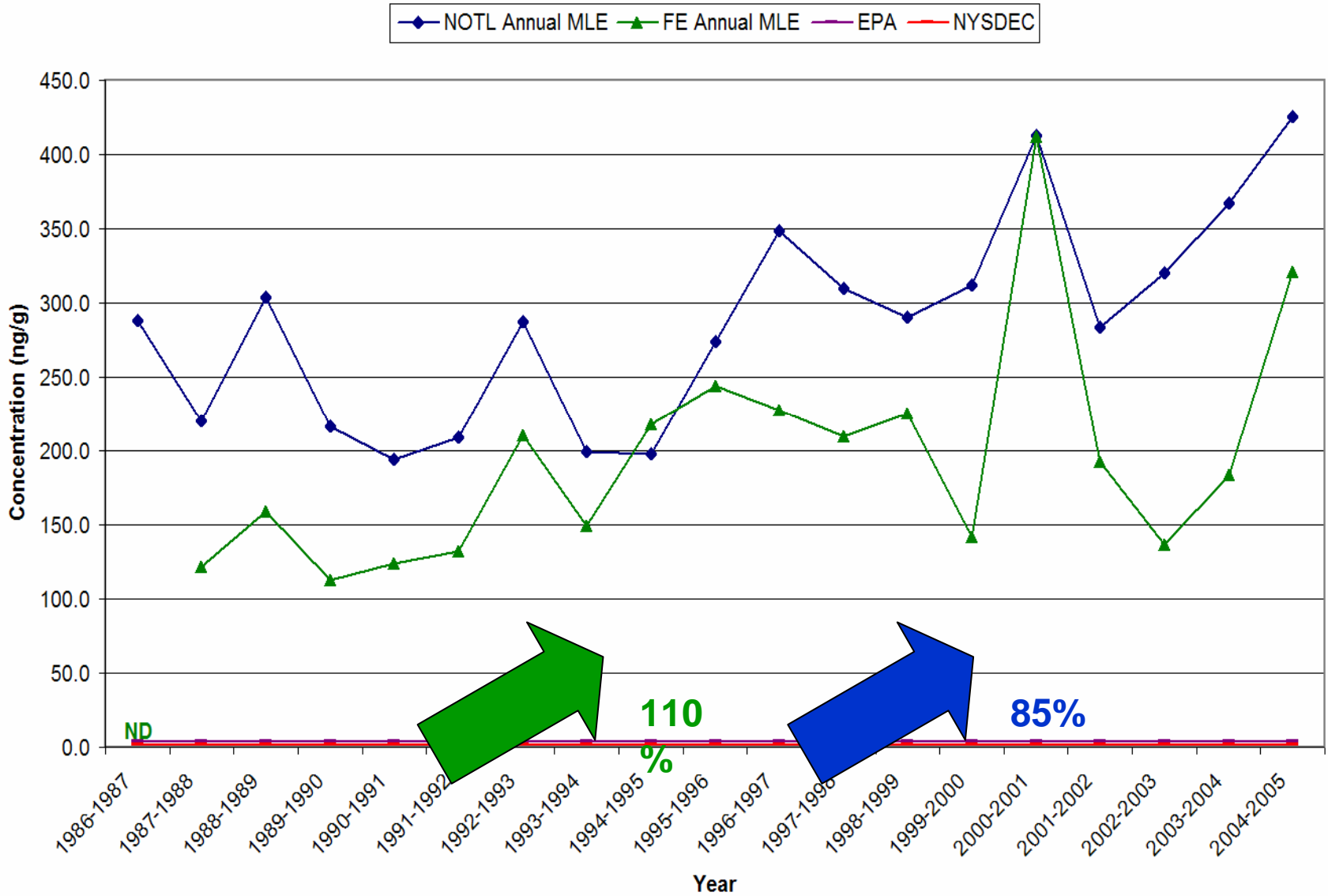
### Niagara River Benzo(a)Pyrene in Water



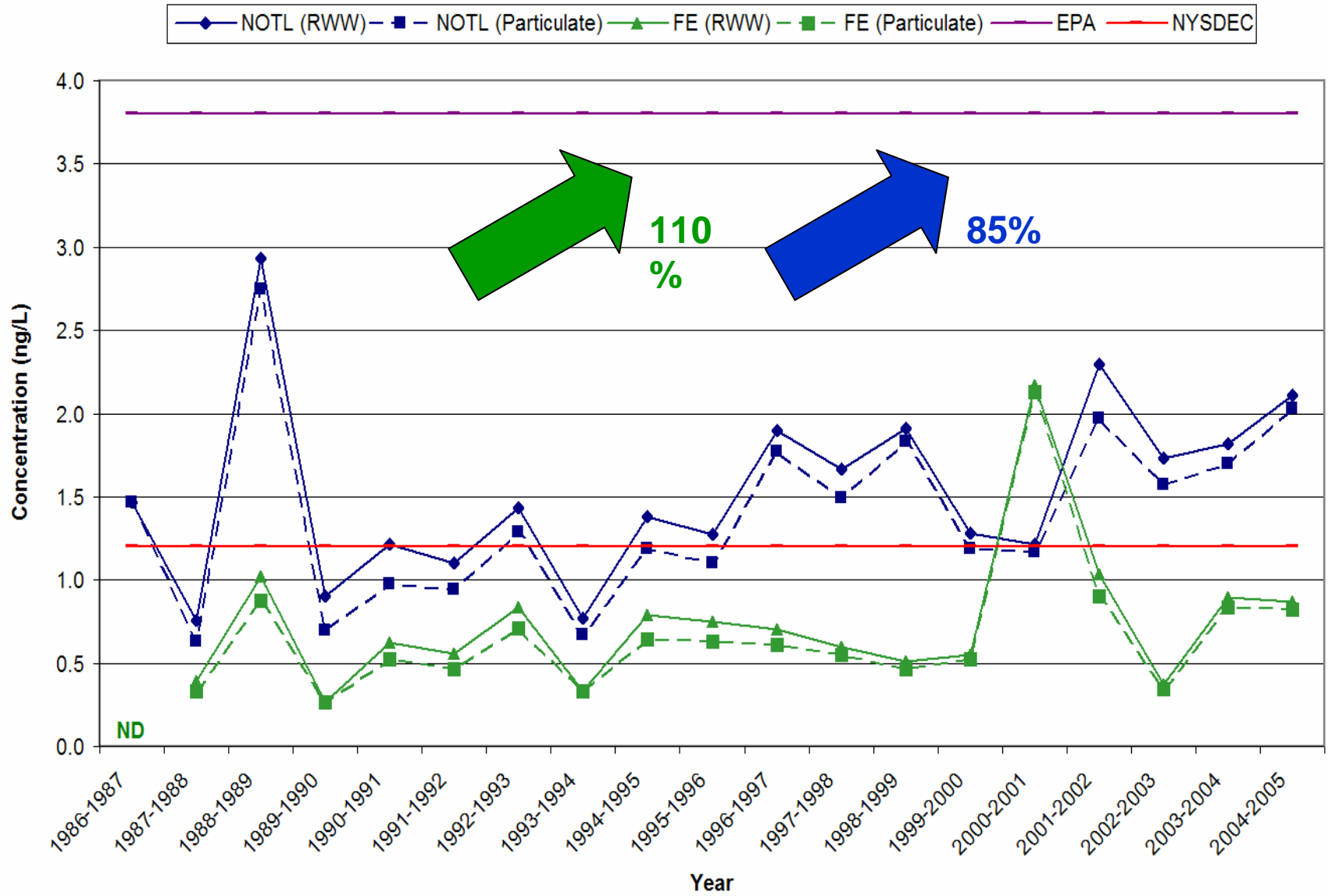
### Niagara River Benzo(a)Pyrene in Water



### Niagara River Benzo(a)Pyrene in Suspended Sediment

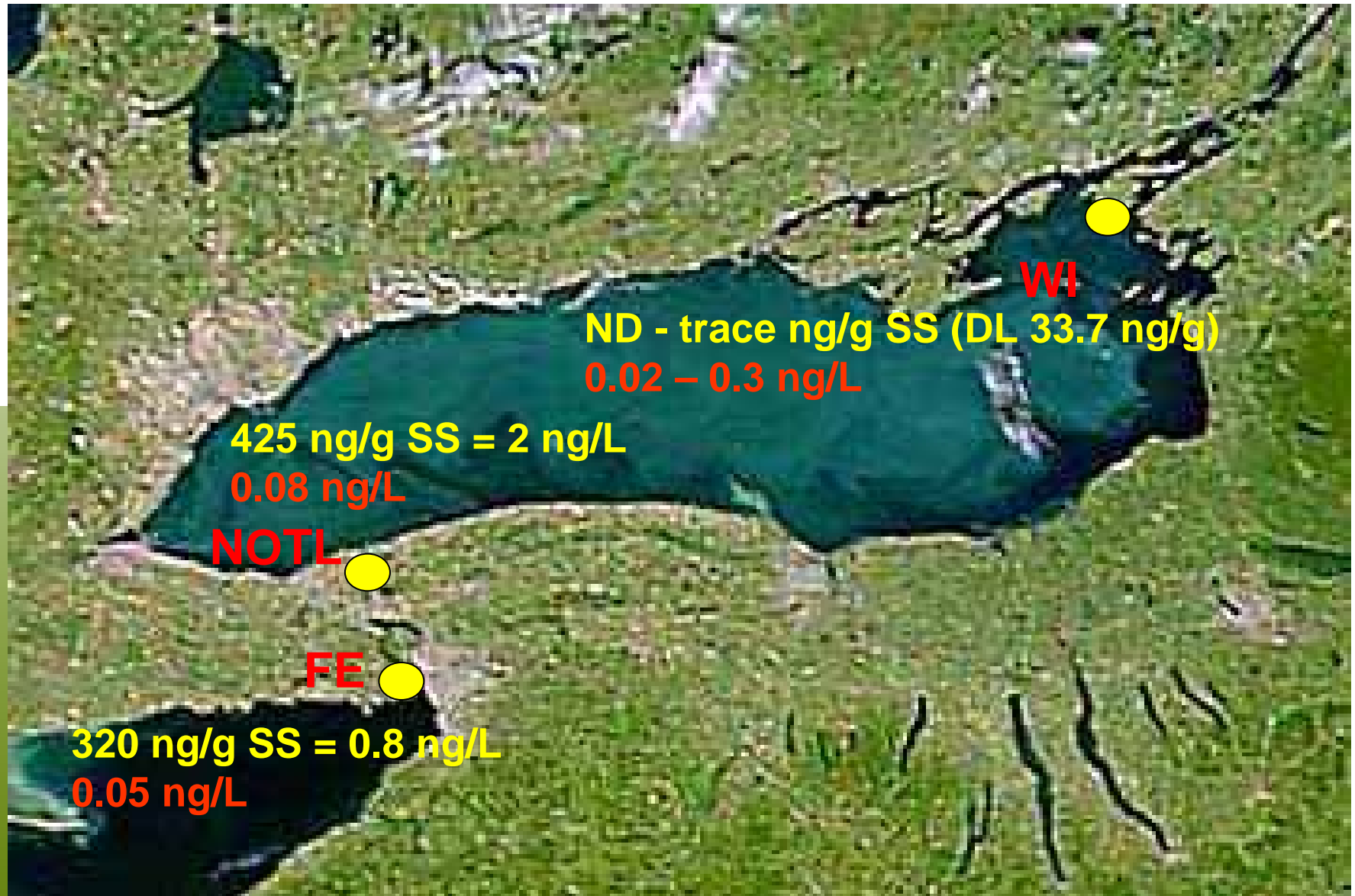


### Niagara River Benzo(a)Pyrene (RWW vs. Suspended Sediment)

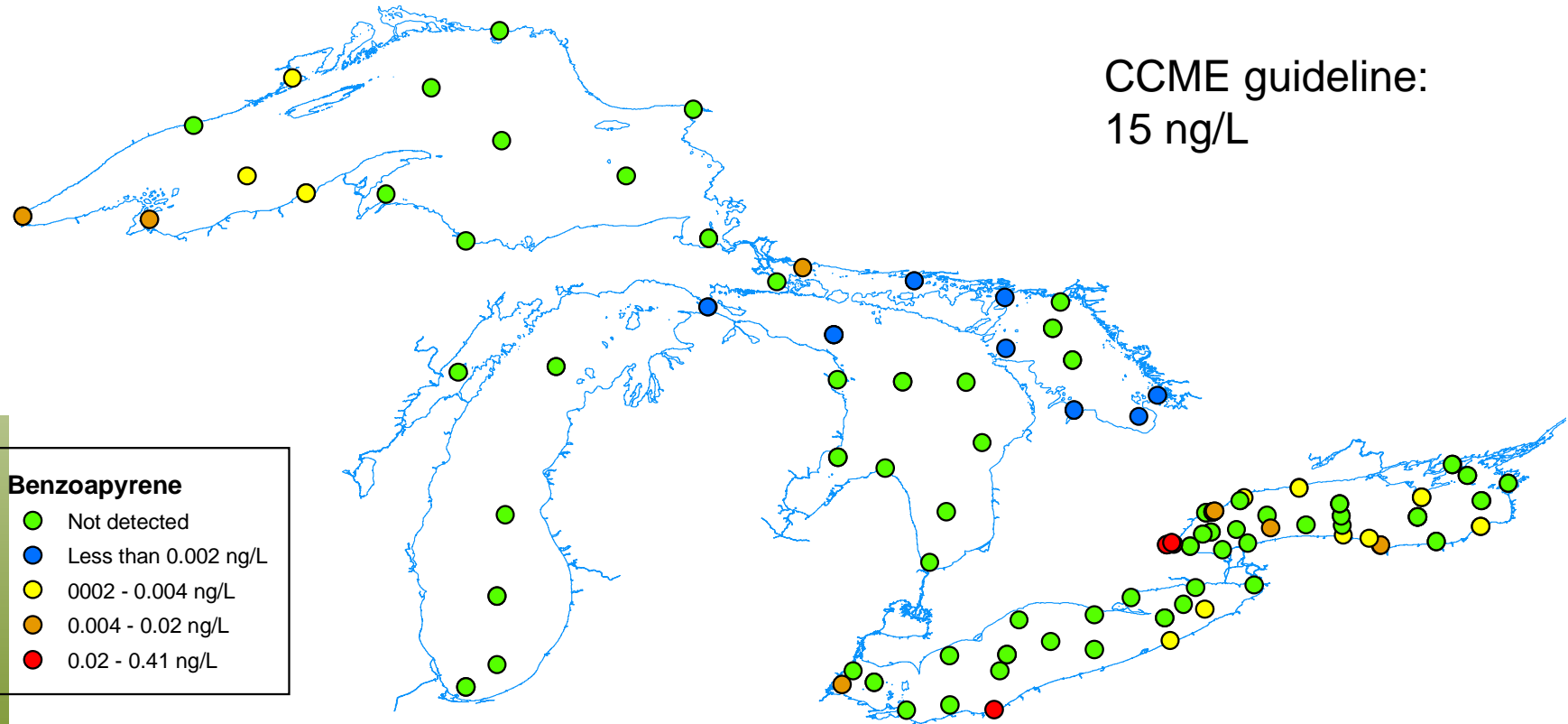




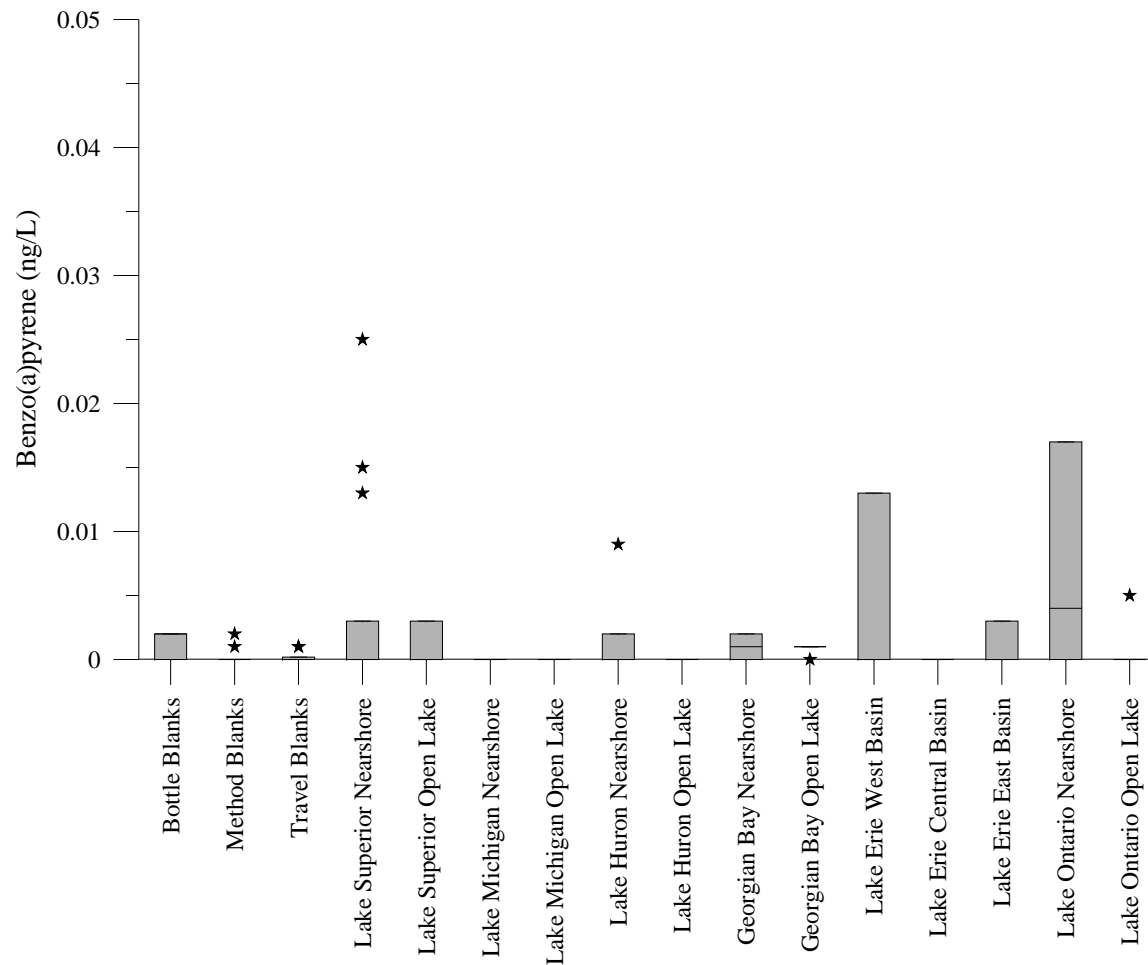
# BaP in Suspended Sediments and Dissolved Phase



# BaP in Great Lakes Water



# Benzo(a)pyrene in the Great Lakes



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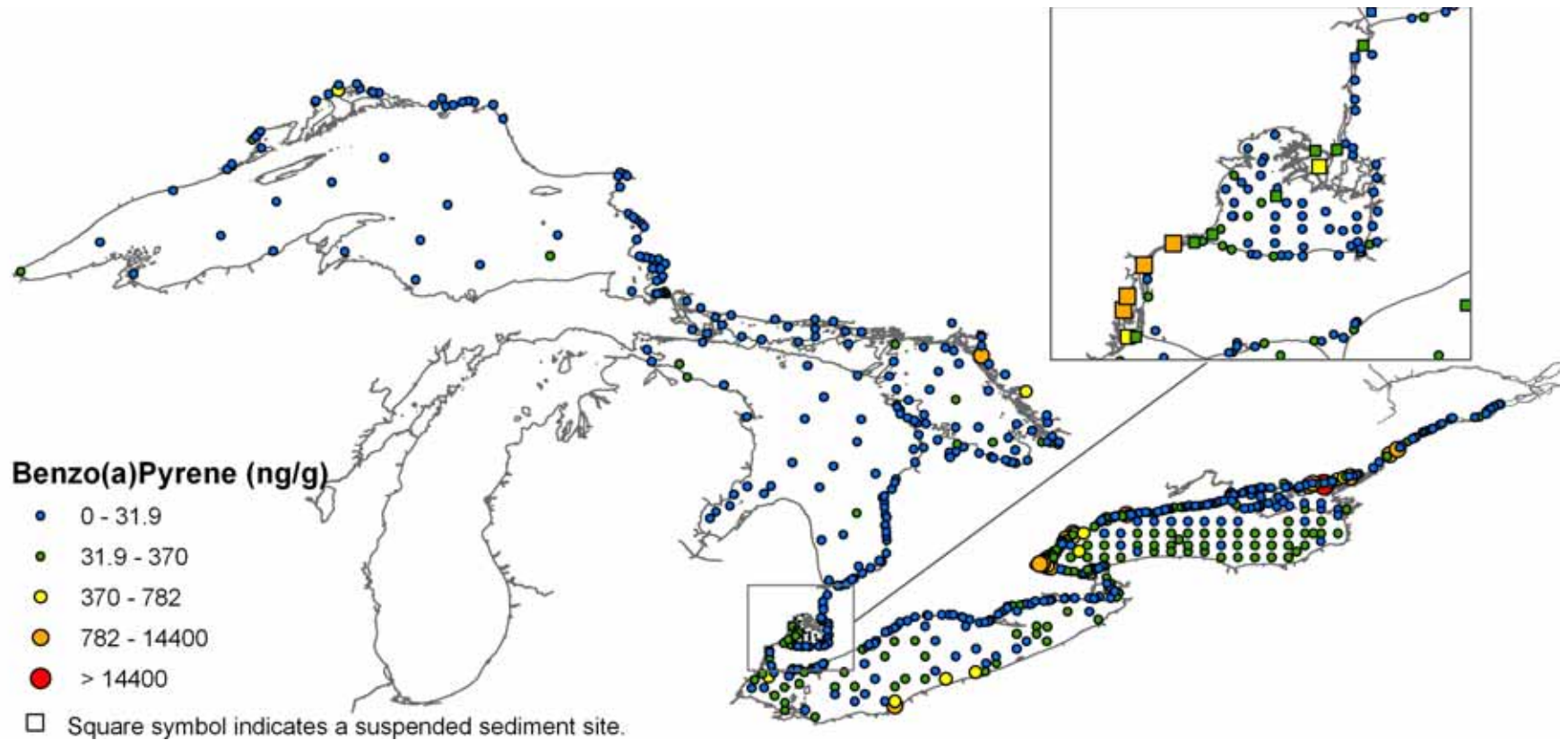


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# Sediment BaP in the Great Lakes



# Sediment BaP in the Great Lakes

