

Shoreline Solutions By CHAT.

“Affordable Living Shoreline”

Services offered by CHAT, LTD

Watershed Conservation

Shoreline Erosion Control

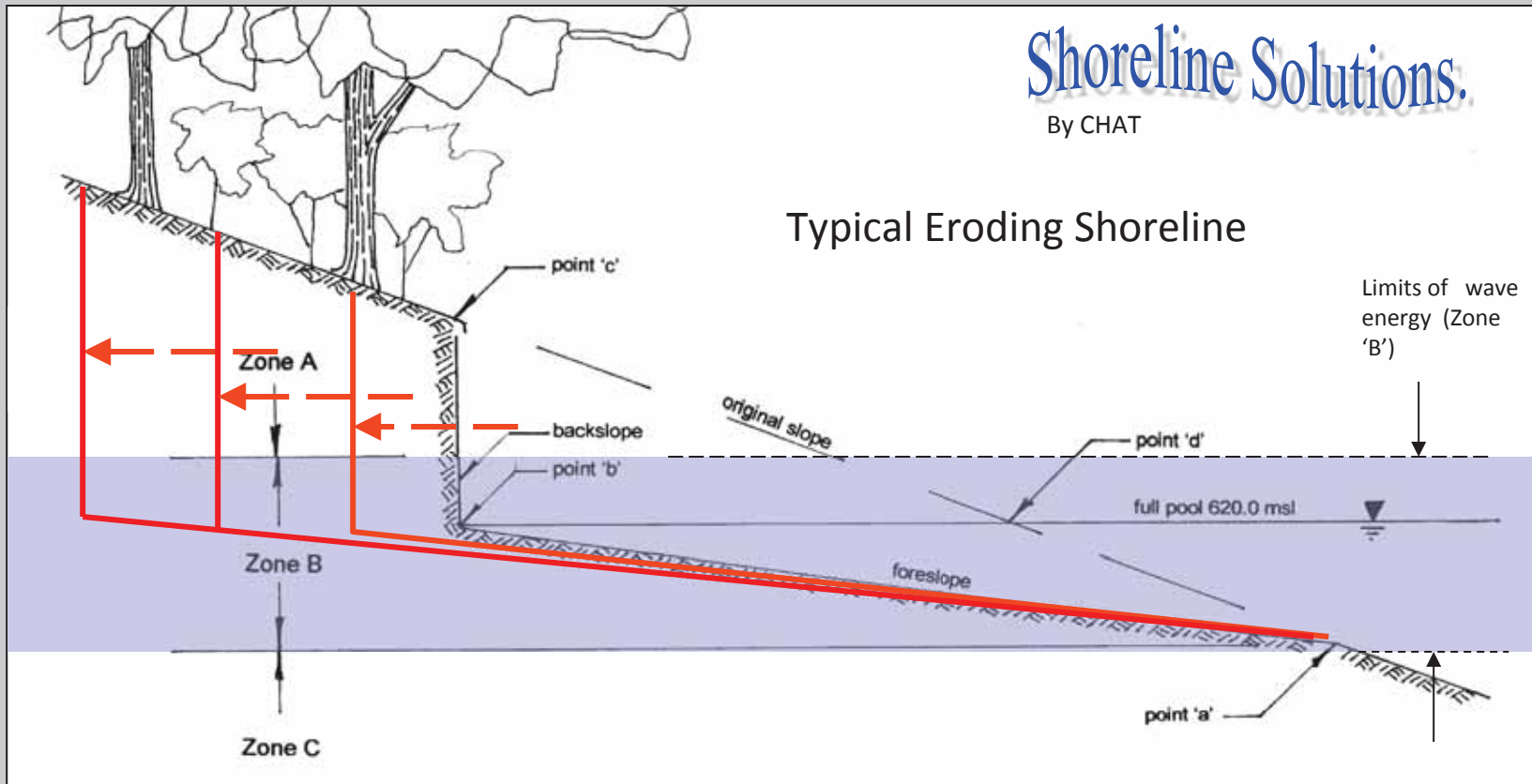
Dredging - Diving - SCUBA and Hardhat



Shoreline Solutions.

By CHAT

Typical Eroding Shoreline

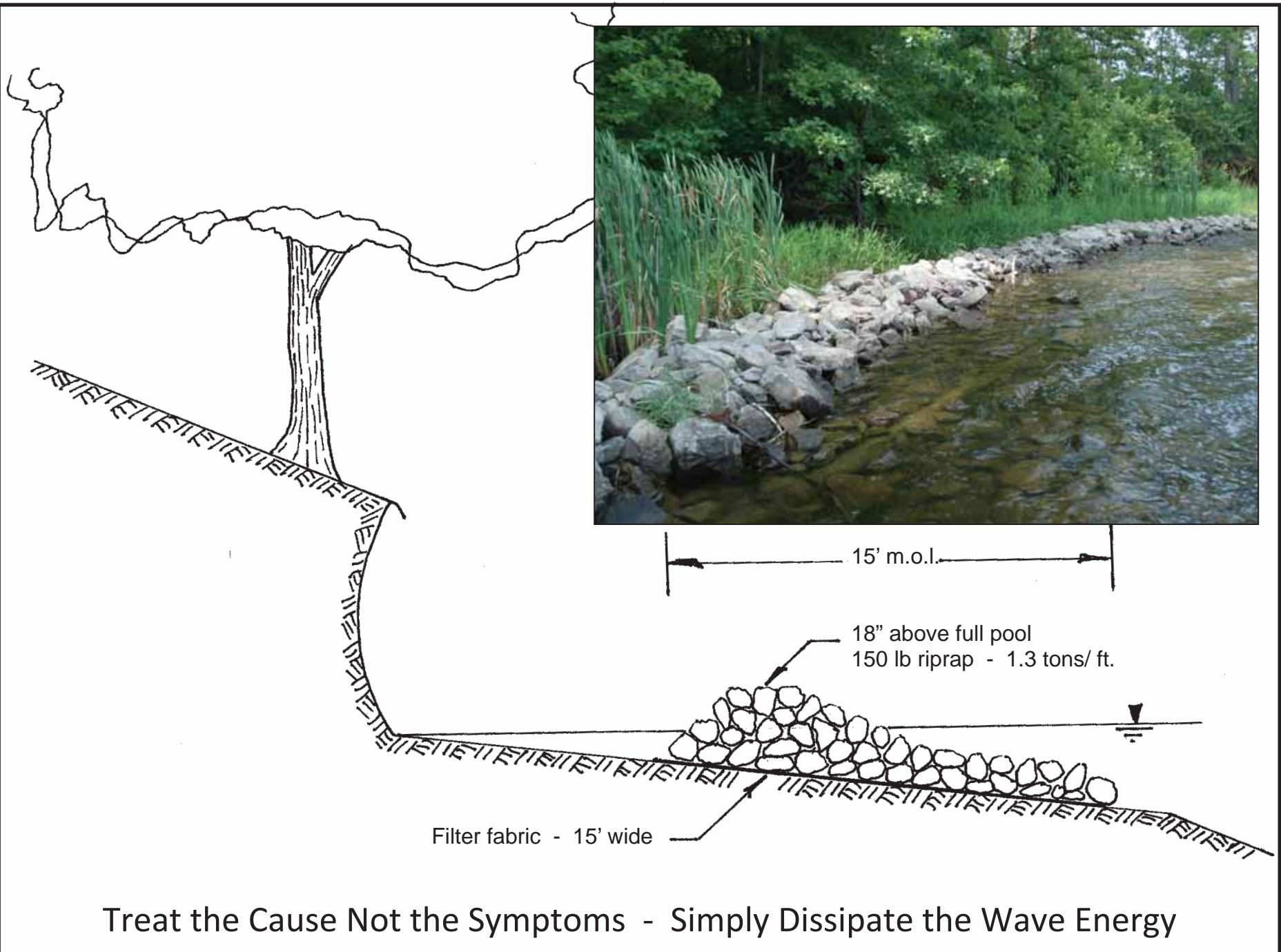


Wave energy is confined to Zone 'B'. The soil in Zone 'B' is taken into suspension by wave energy and is transported to deeper water, where it settles to the bottom and remains indefinitely as sediment.

Wave energy undermines Zone 'A' and soil falls into Zone 'B' where it too is removed by wave energy.

The soil in Zone 'C' is not effected by wave energy.

As soil is removed from the bank to deeper water, the bank retreats inland.



Treat the Cause Not the Symptoms - Simply Dissipate the Wave Energy

Shoreline Solutions by CHAT.

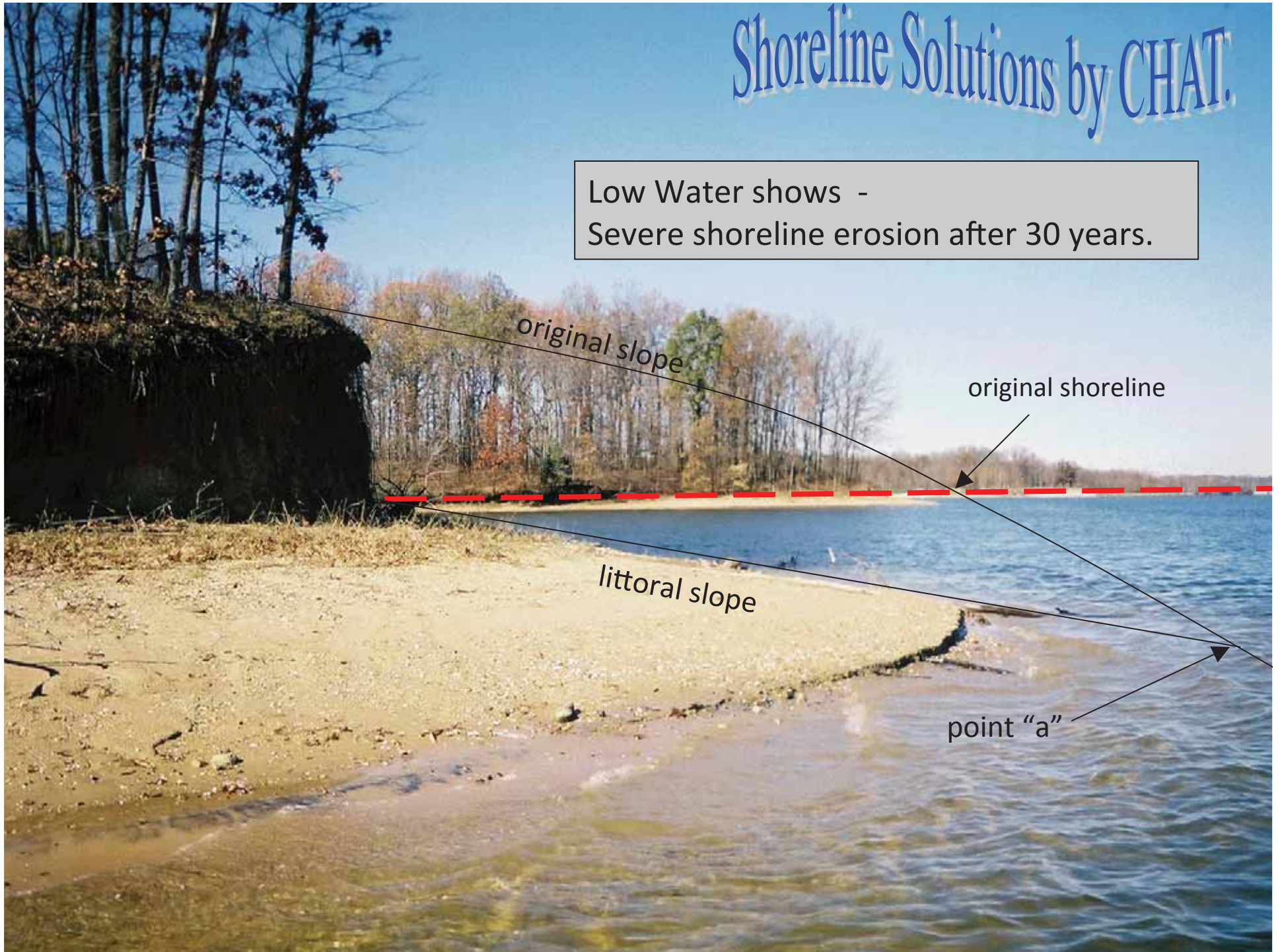
Low Water shows -
Severe shoreline erosion after 30 years.

original slope

original shoreline

littoral slope

point "a"



Why does most shoreline erosion occur in the Spring?

Frost Heave

Early Spring

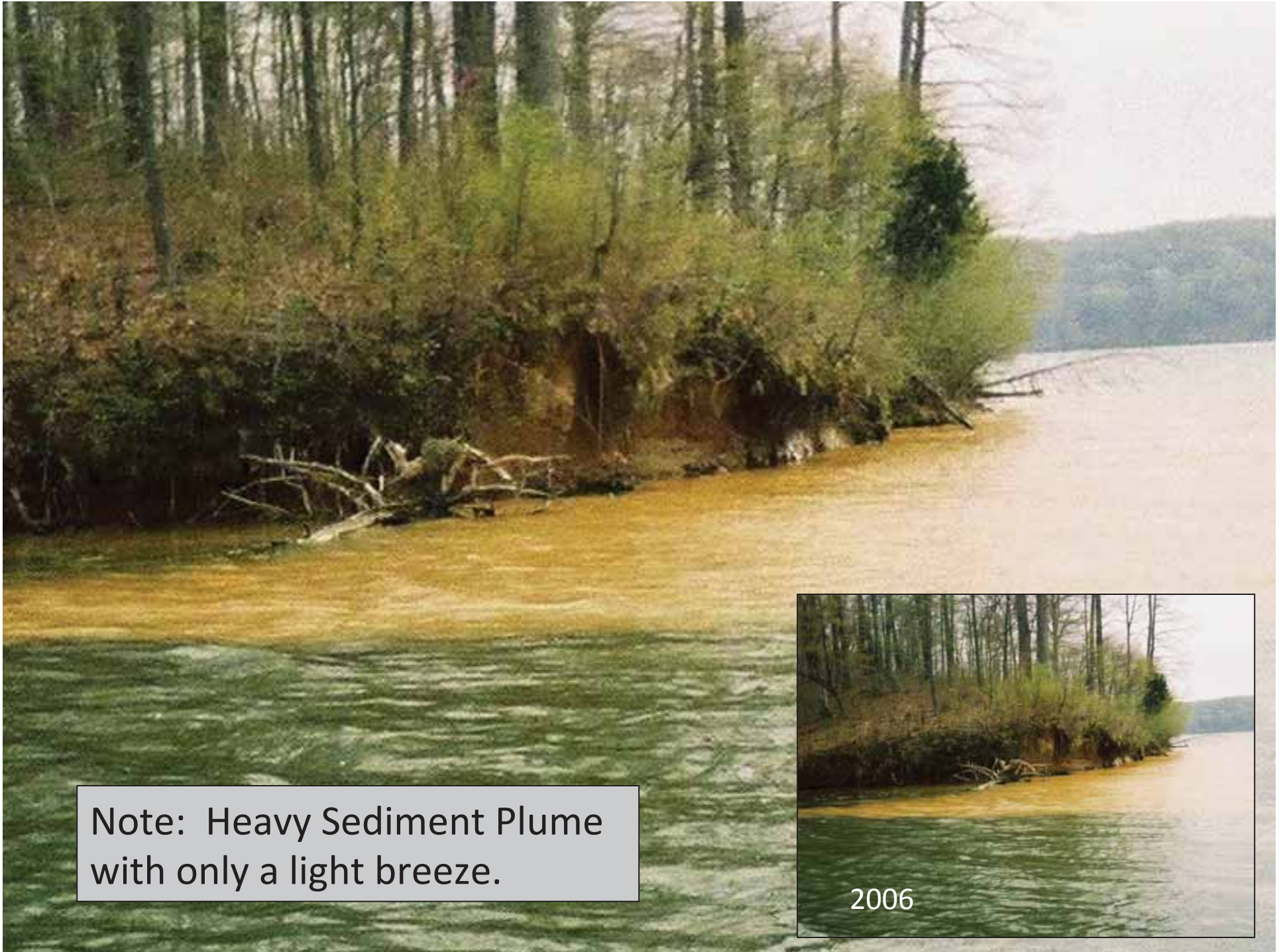
Time Lapse:
Three weeks





after 10 years





Note: Heavy Sediment Plume with only a light breeze.



2006





Before Treatment:
12 plant species – sparsely populated

*Reference:
As identified by -John Severson Southern Ill. Univ. Carbondale, IL

2001

2001



CHAT, LTD

Lean riprap breakwater
built by Macoupin Boats

Serious fishermen agree...

*"A lean riprap breakwater improves fishing,
shoreline habitat and water quality."*