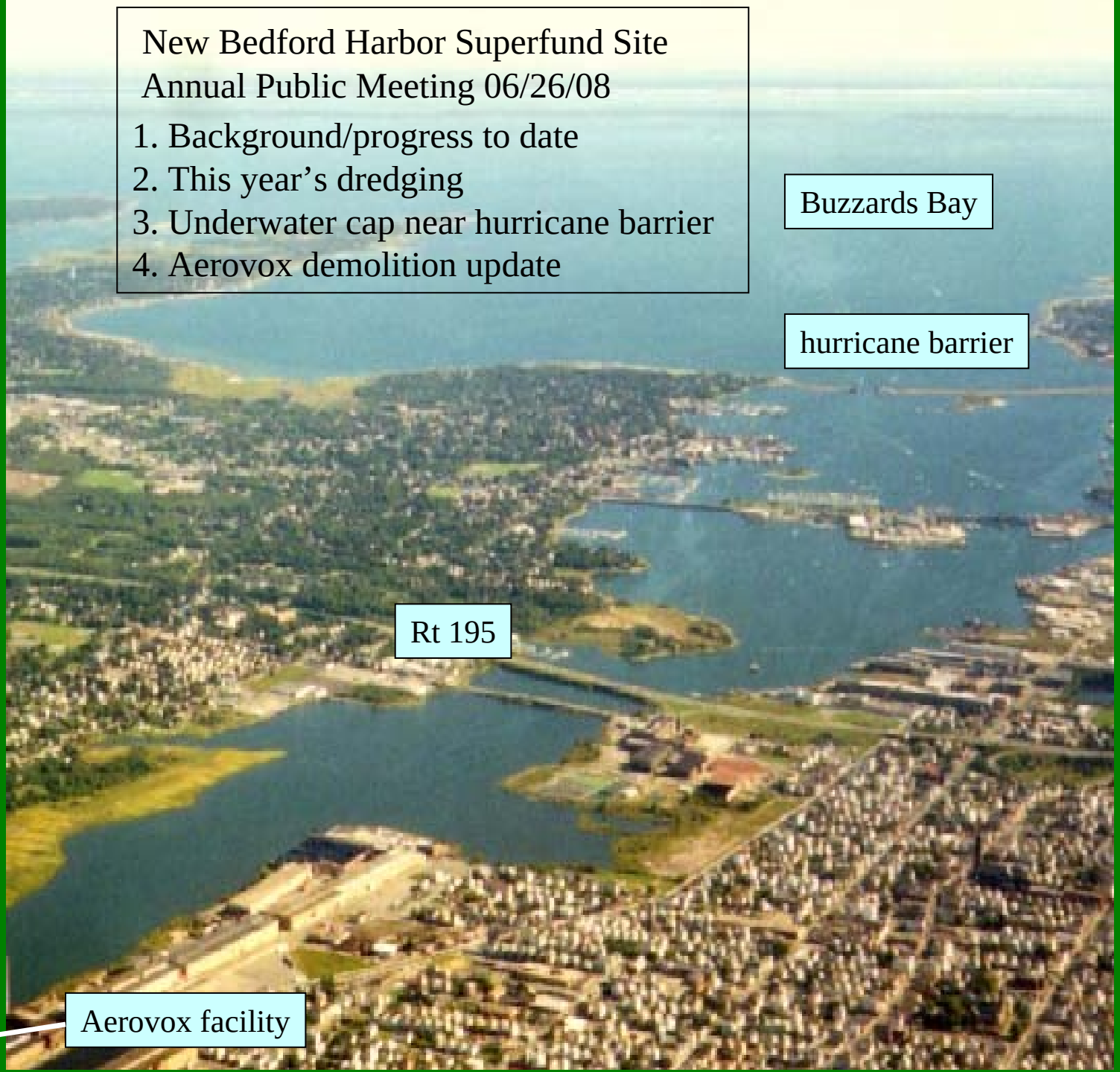
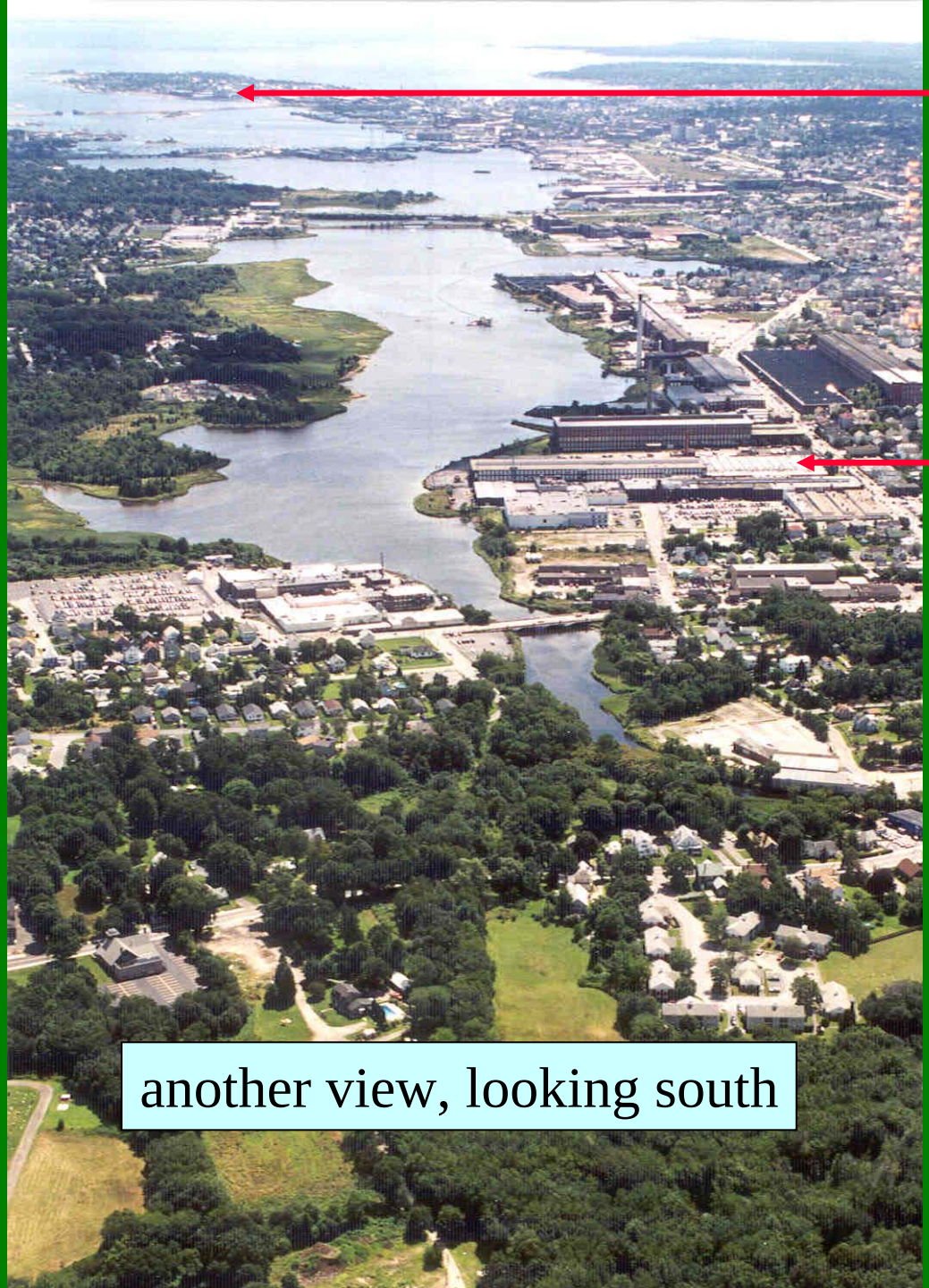
New Bedford Harbor Superfund Site
Annual Public Meeting 06/26/08

1. Background/progress to date
2. This year's dredging
3. Underwater cap near hurricane barrier
4. Aerovox demolition update





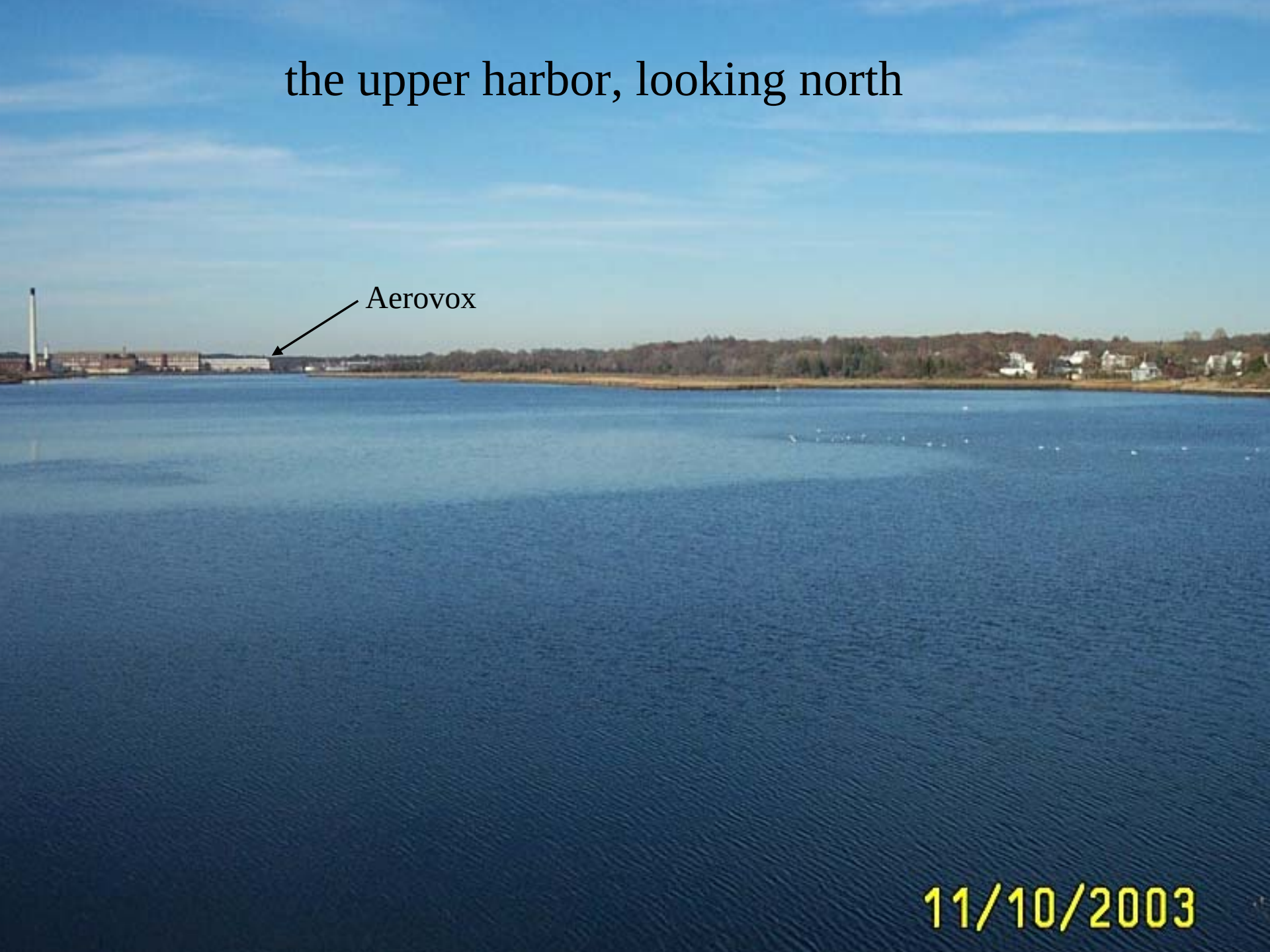
Cornell-Dubilier

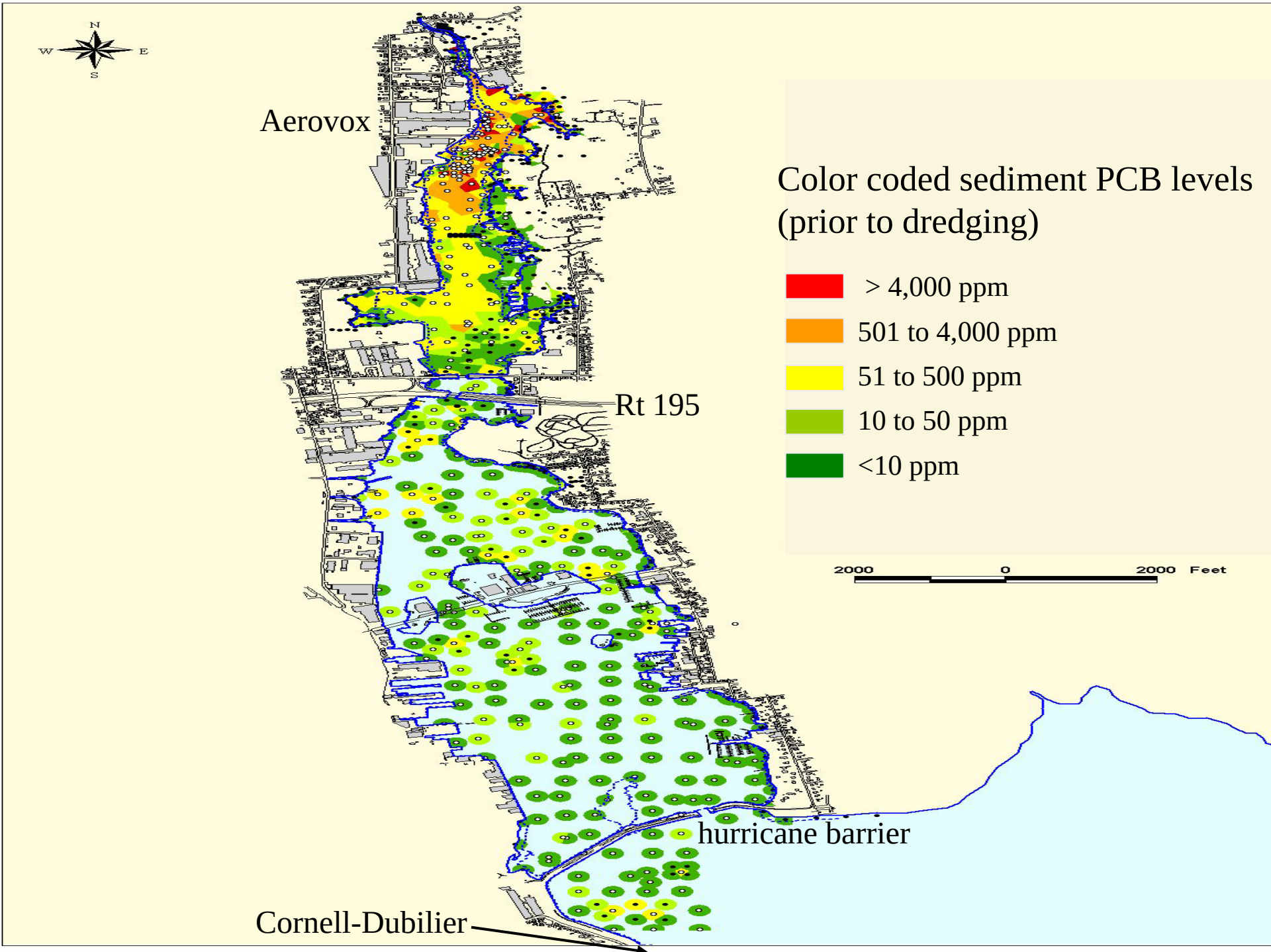
Second capacitor facility in outer harbor

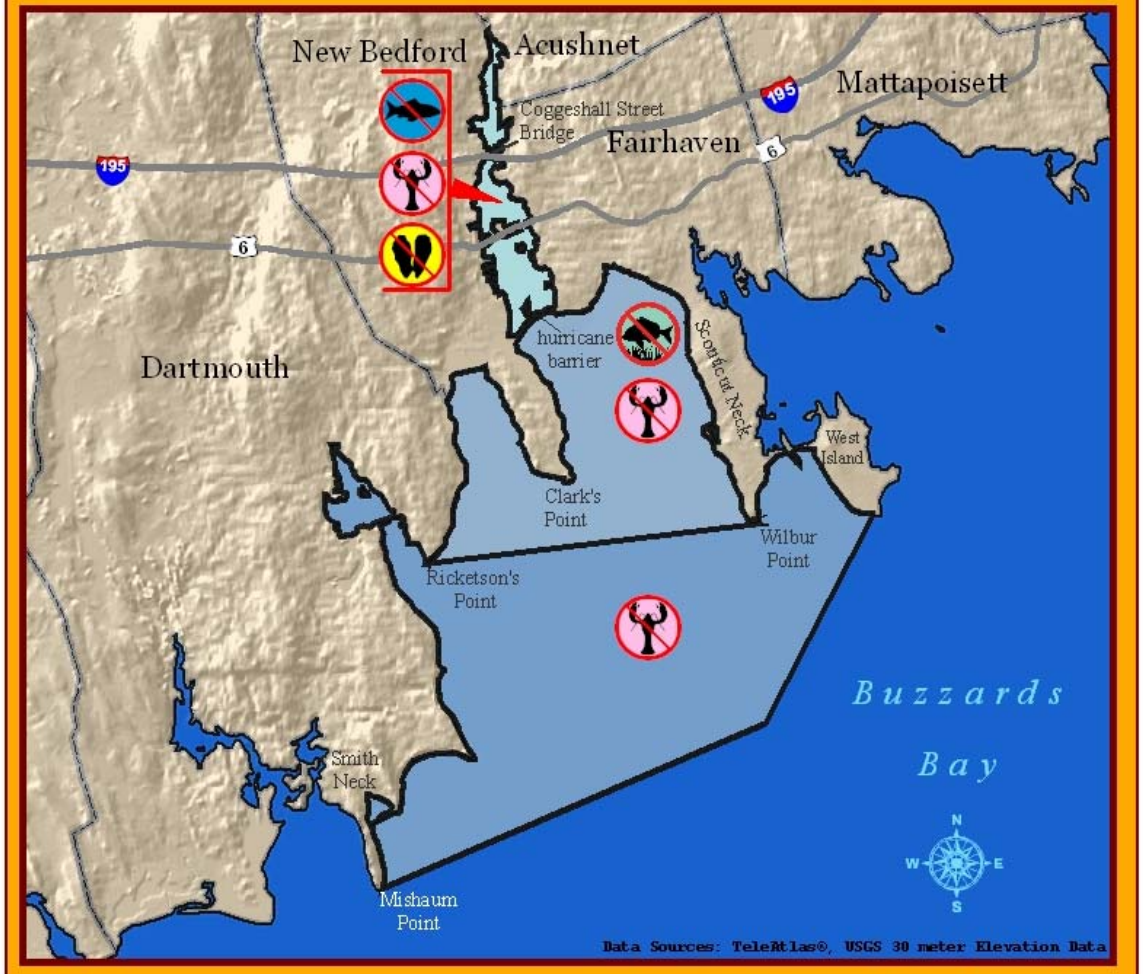
Aerovox

Electronic capacitor facility released an estimated 275 tons of PCBs from the 1940s to the 1970s

the upper harbor, looking north




N
W
E
S
Aerovox
Rt 195
hurricane barrier
Cornell-Dubilier
Color coded sediment PCB levels
(prior to dredging)
> 4,000 ppm
501 to 4,000 ppm
51 to 500 ppm
10 to 50 ppm
<10 ppm
2000
0
2000
Feet



Do NOT eat any fish
No coma pescado
Não coma peixe

Do NOT eat any lobster
No coma langosta
Não coma lagosta

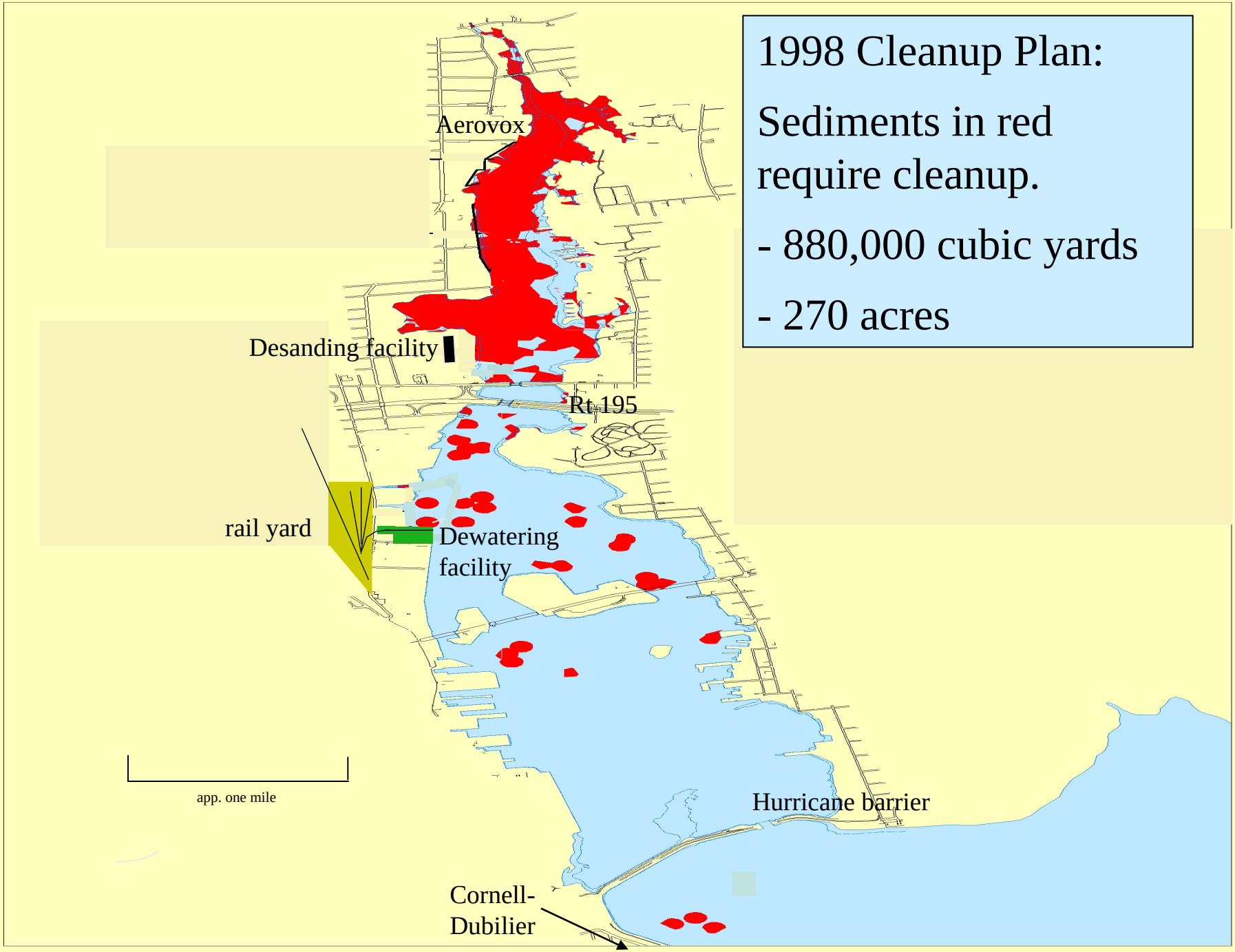
Do NOT eat bottom feeding fish
No coma pescado de fondo:
Não coma peixe de fundo:

- flounder
- lenguado
- solha
- tautog
- tautoga
- bodião da ostra
- scup
- sargo
- sargo
- eel
- anguila
- anguila

Do NOT eat any shellfish
No coma mariscos
Não coma mariscos

The 1979 state fishing ban - due to PCBs

(covers 18,000 acres)

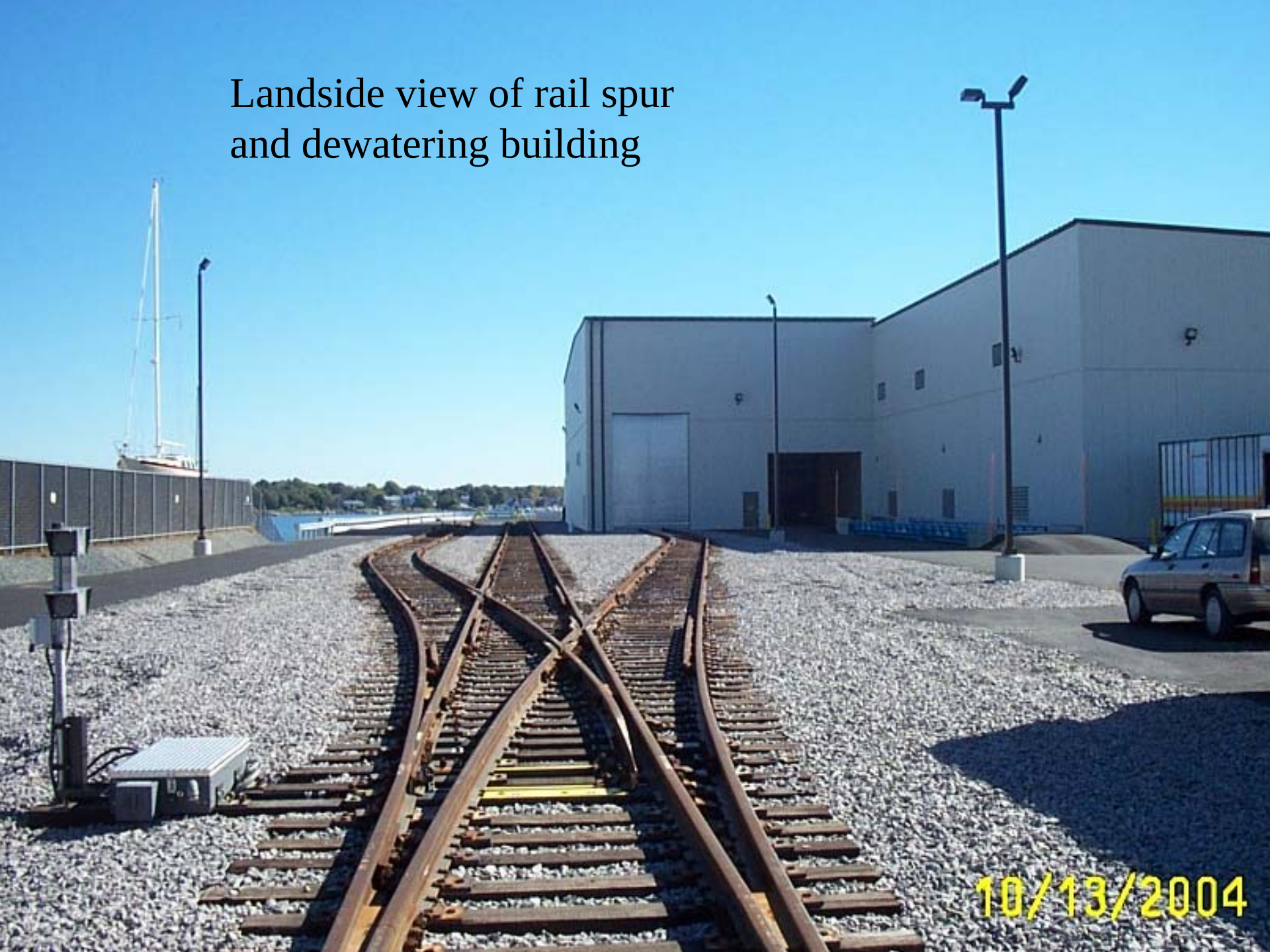

1998 Cleanup Plan:
Sediments in red require cleanup.
- 880,000 cubic yards
- 270 acres
Aerovox
Desanding facility
Rt. 195
rail yard
Dewatering facility
app. one mile
Hurricane barrier
Cornell-Dubilier

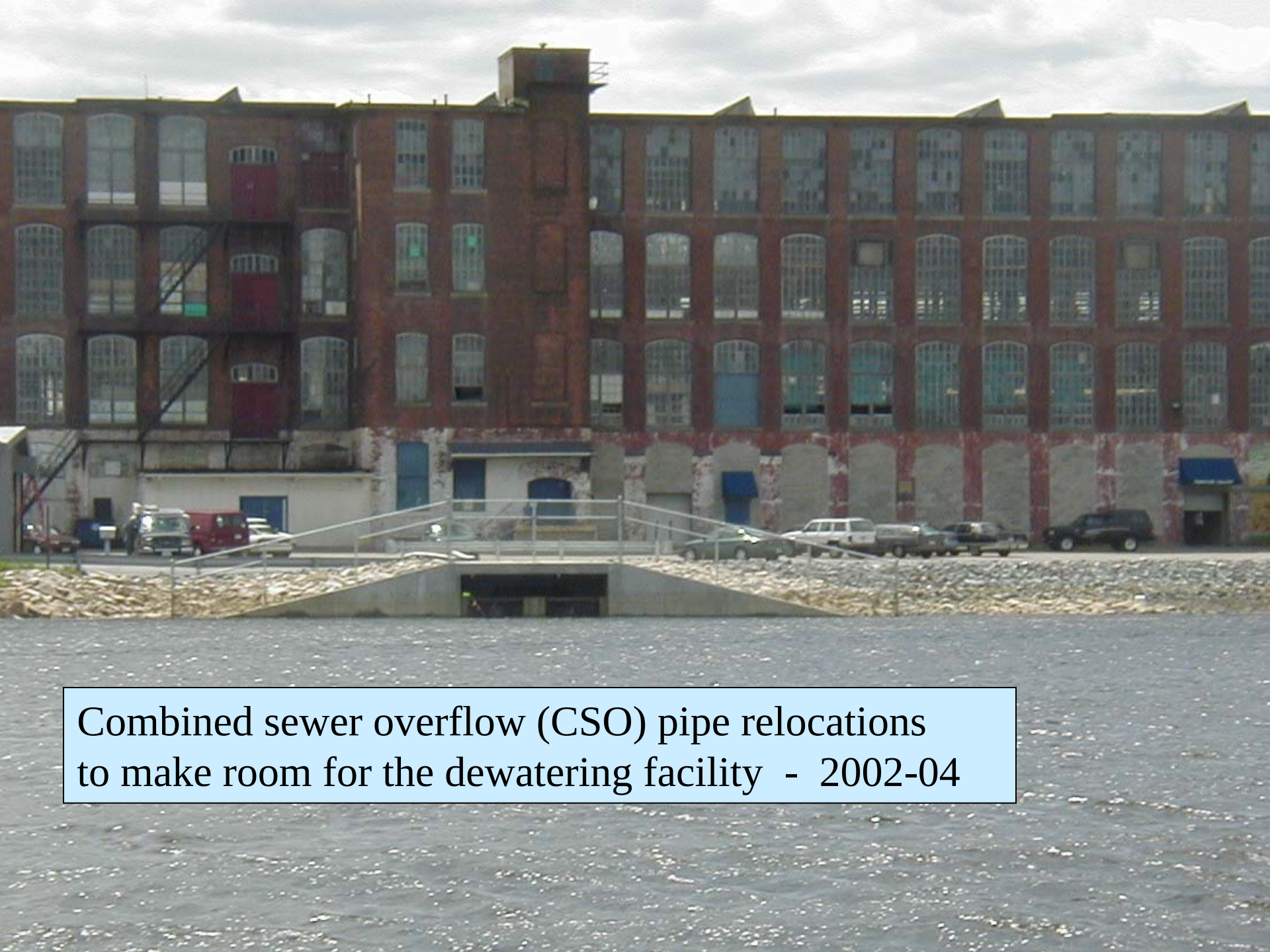
QUICK look at progress to date
HYUNDAI
Acushnet shoreline cleanup – 1999-2000

NSTAR Power Cable Relocation – 2001

Dewatering facility bulkhead - 2002/03

Dewatering facility and rail spur - 2002-04

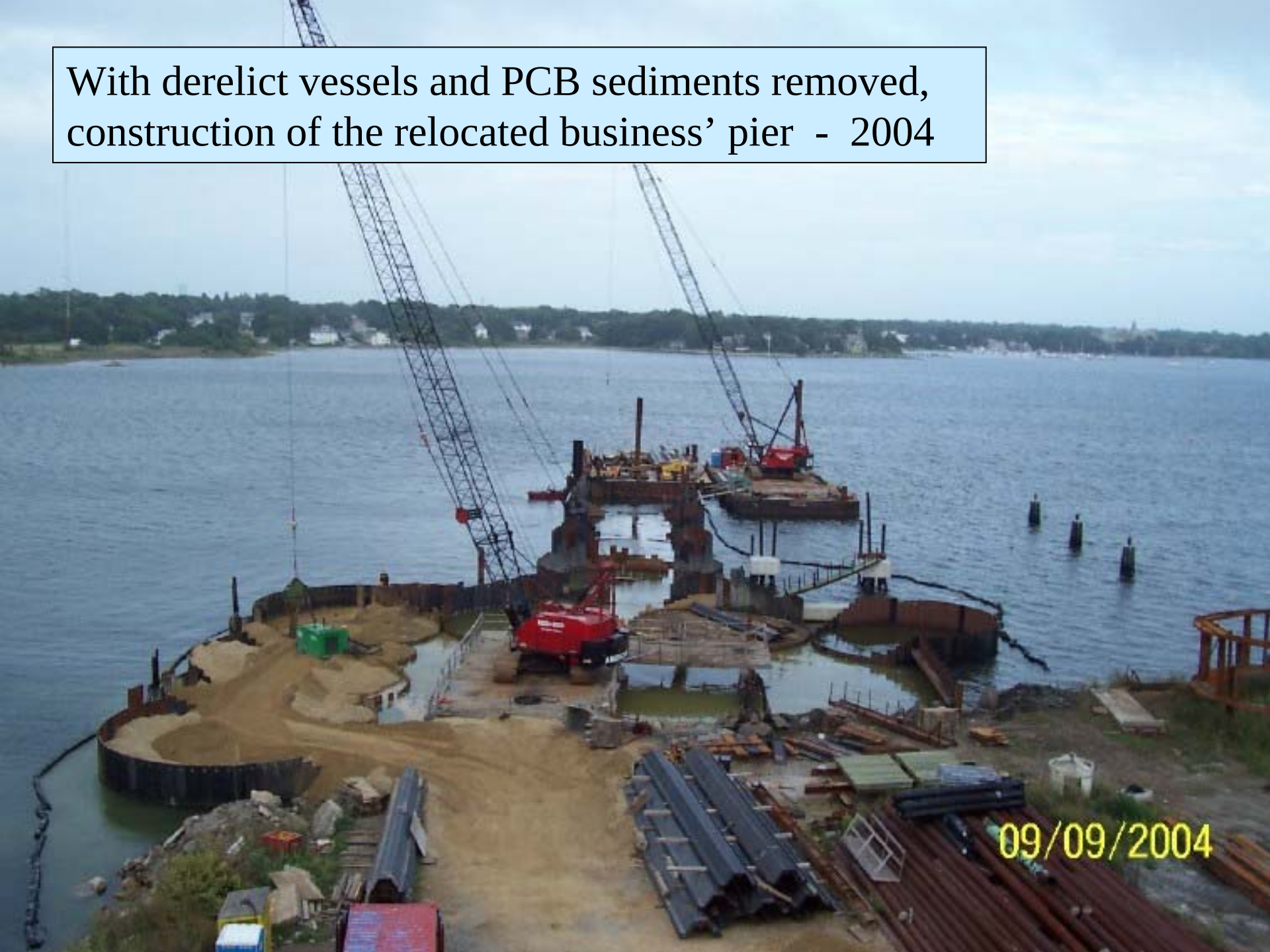

Landside view of rail spur
and dewatering building
10/13/2004



Combined sewer overflow (CSO) pipe relocations
to make room for the dewatering facility - 2002-04

Demolition and removal of derelict vessels to allow shoreline business relocation - 2002

With derelict vessels and PCB sediments removed, construction of the relocated business' pier - 2004



North of Wood Street cleanup – 2002/03

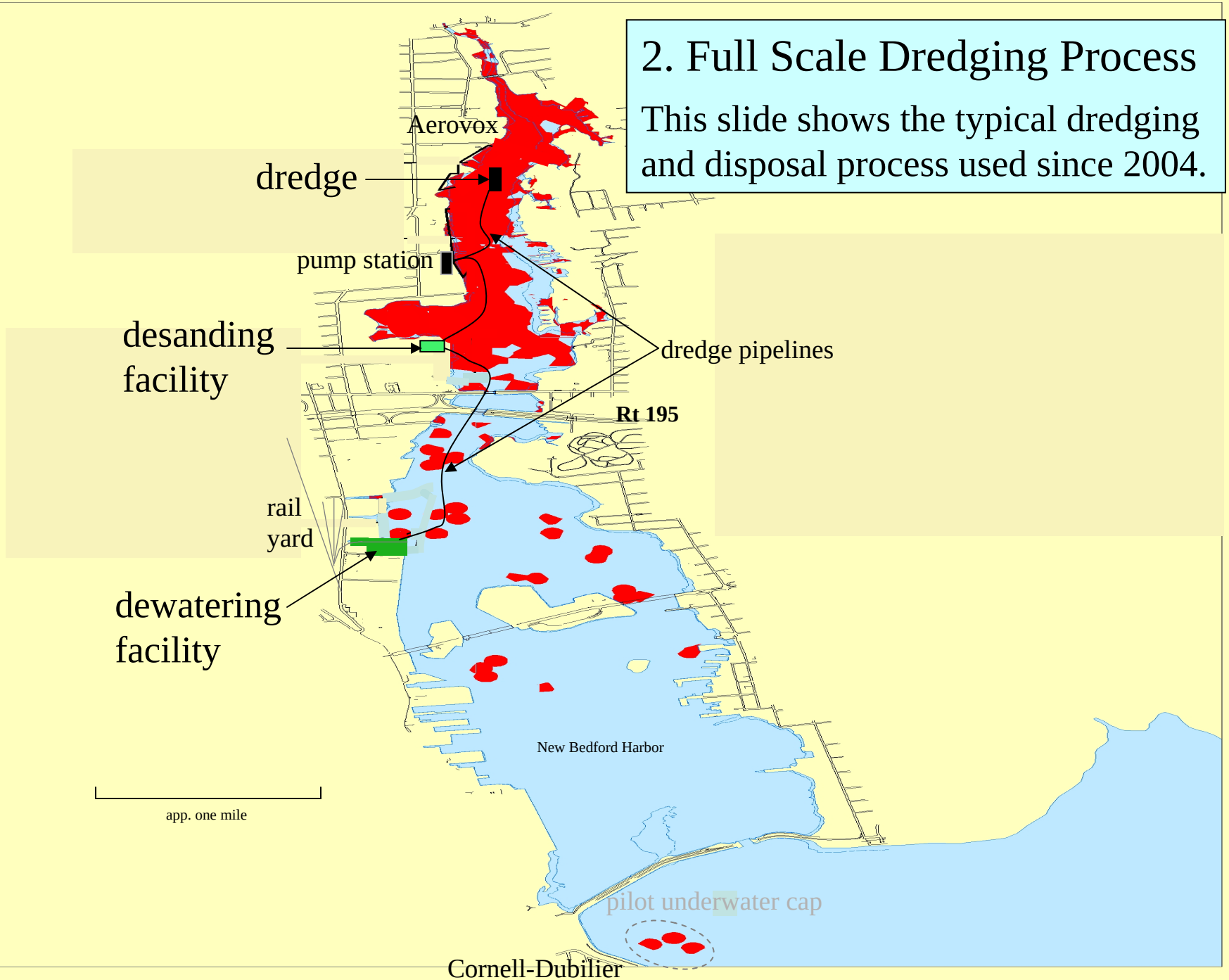
The restored river and streambanks

Aerovox shoreline cleanup - June 2008

Aerovox shoreline cleanup - vacant Aerovox mill in background

2. Full Scale Dredging Process

This slide shows the typical dredging and disposal process used since 2004.



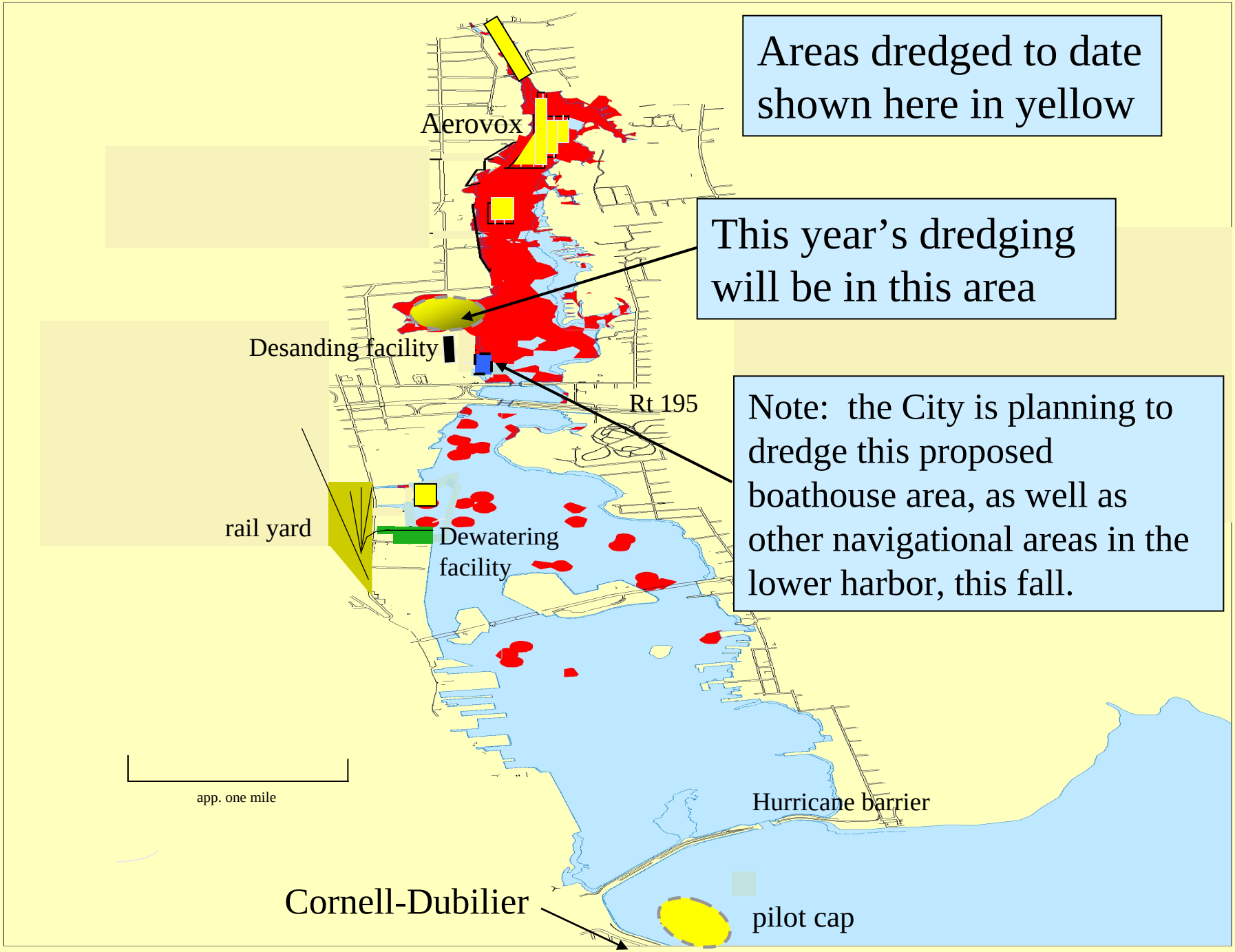
Current dredging and disposal operations

1. Dredging in upper harbor

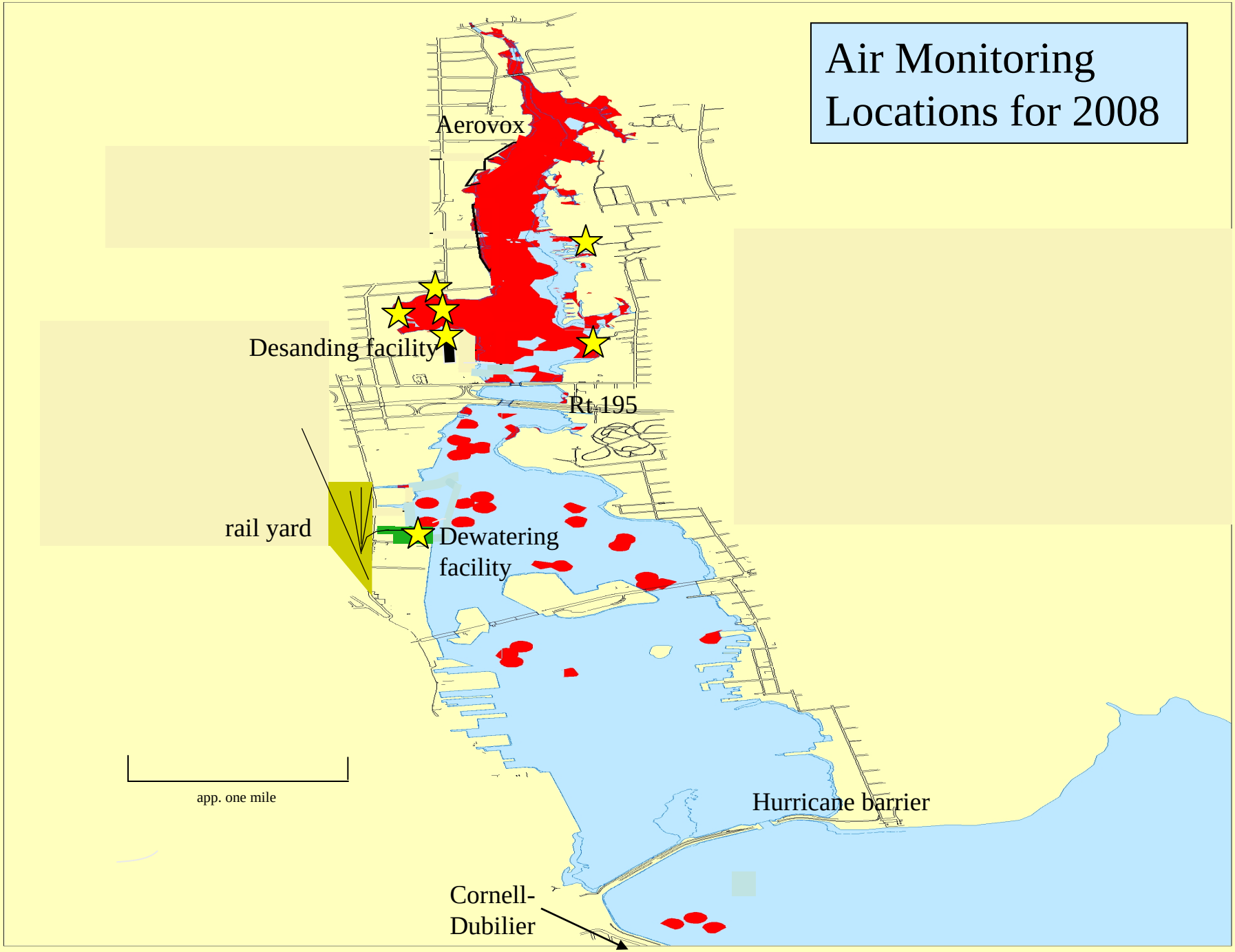
2. Desanding

3. Dewatering

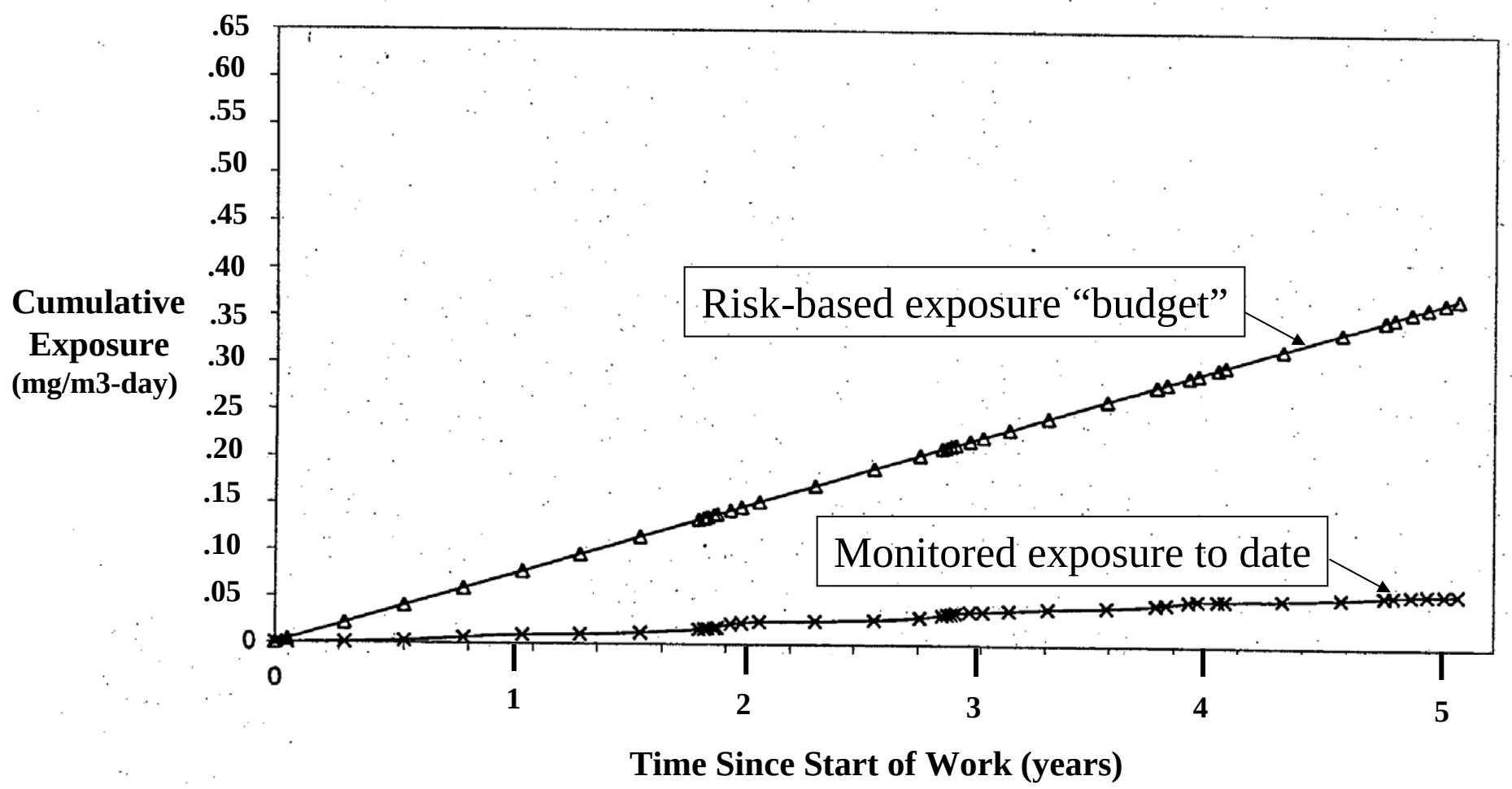
4. Loading to rail for offsite disposal


Areas dredged to date shown here in yellow
Aerovox
This year's dredging will be in this area
Desanding facility
Rt 195
Note: the City is planning to dredge this proposed boathouse area, as well as other navigational areas in the lower harbor, this fall.
rail yard
Dewatering facility
app. one mile
Hurricane barrier
Cornell-Dubilier
pilot cap

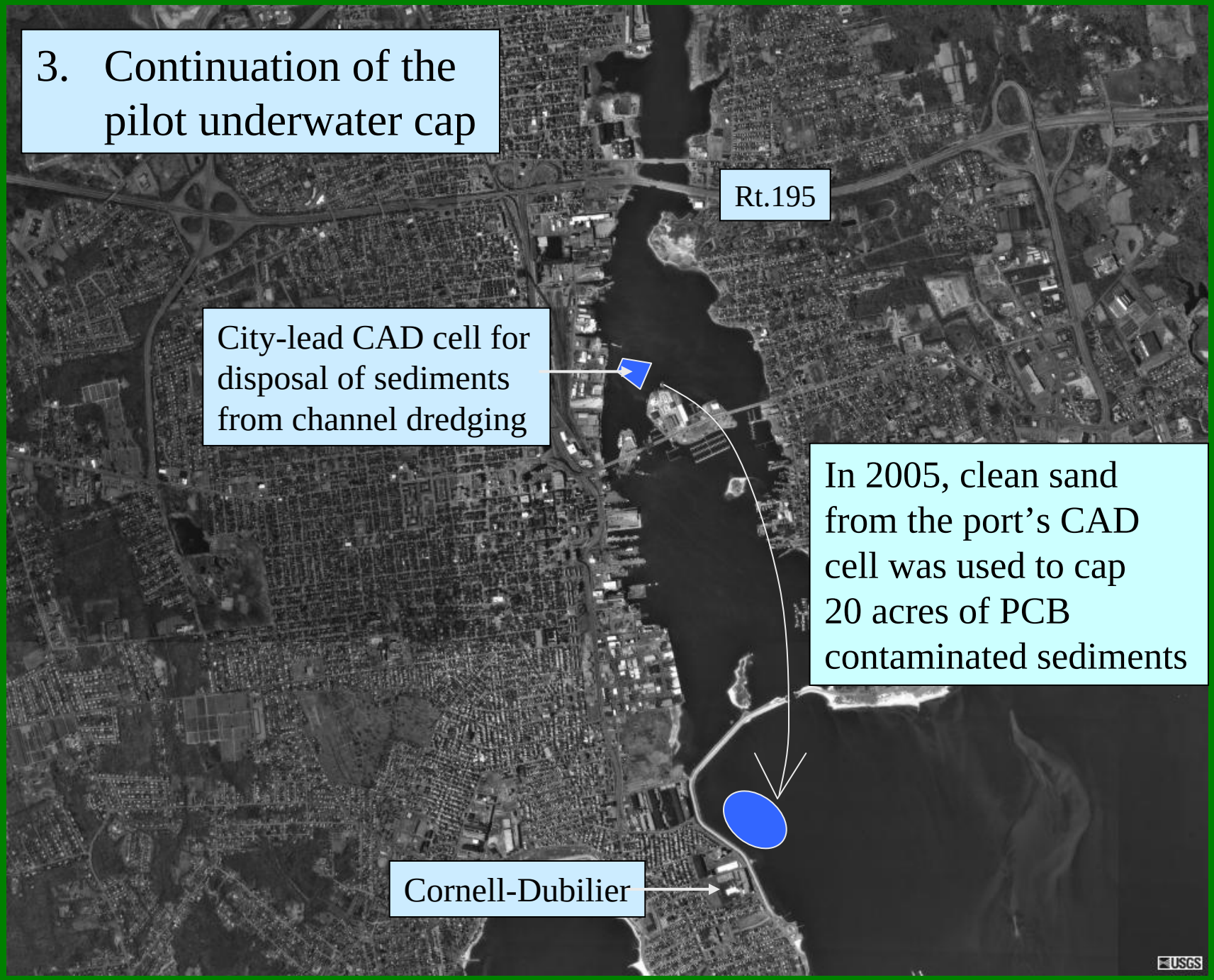
Air Monitoring Locations for 2008



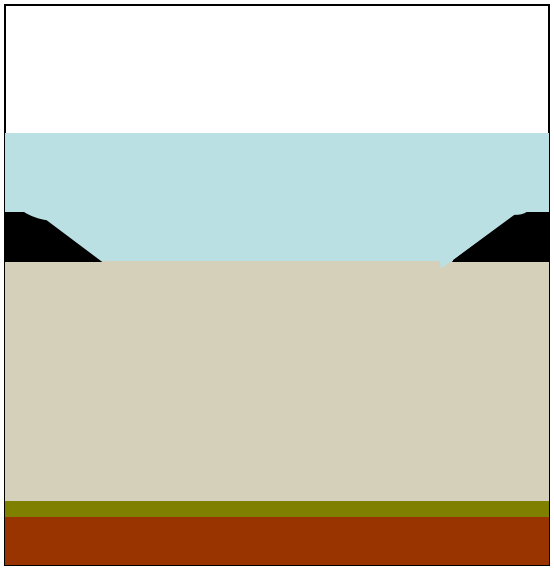
Actual airborne PCB levels are well below acceptable risk-based levels (Coffin Ave data shown)



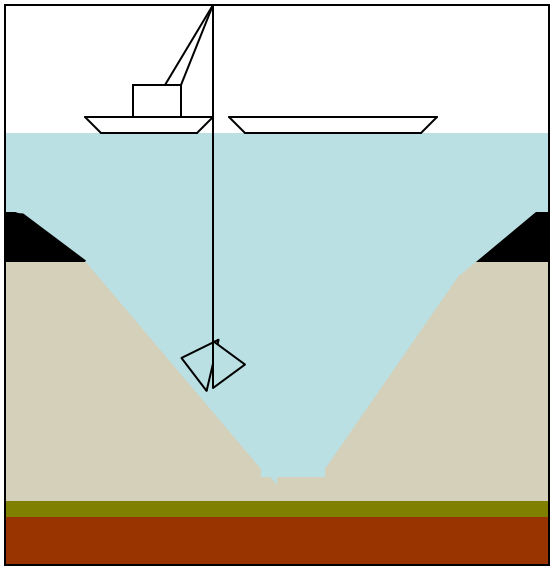
3. Continuation of the pilot underwater cap



1. Harbor bottom as is



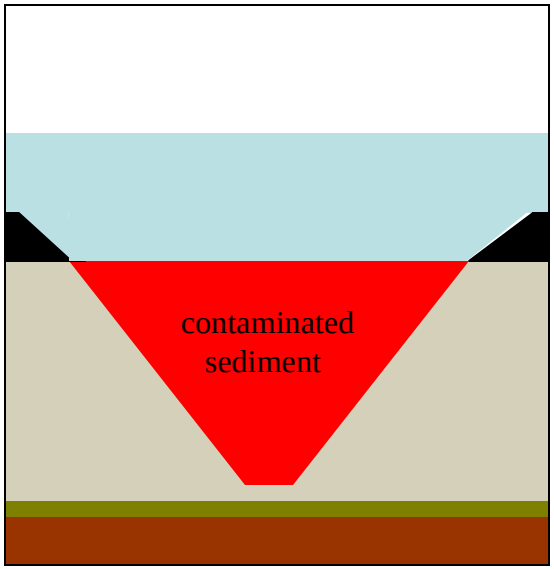
2. Excavation of silts



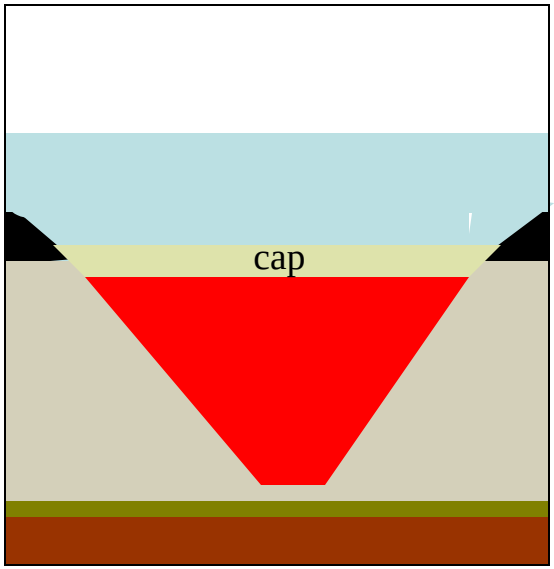
3. Excavation of sand and gravel

What's a CAD cell?

(confined aquatic disposal)

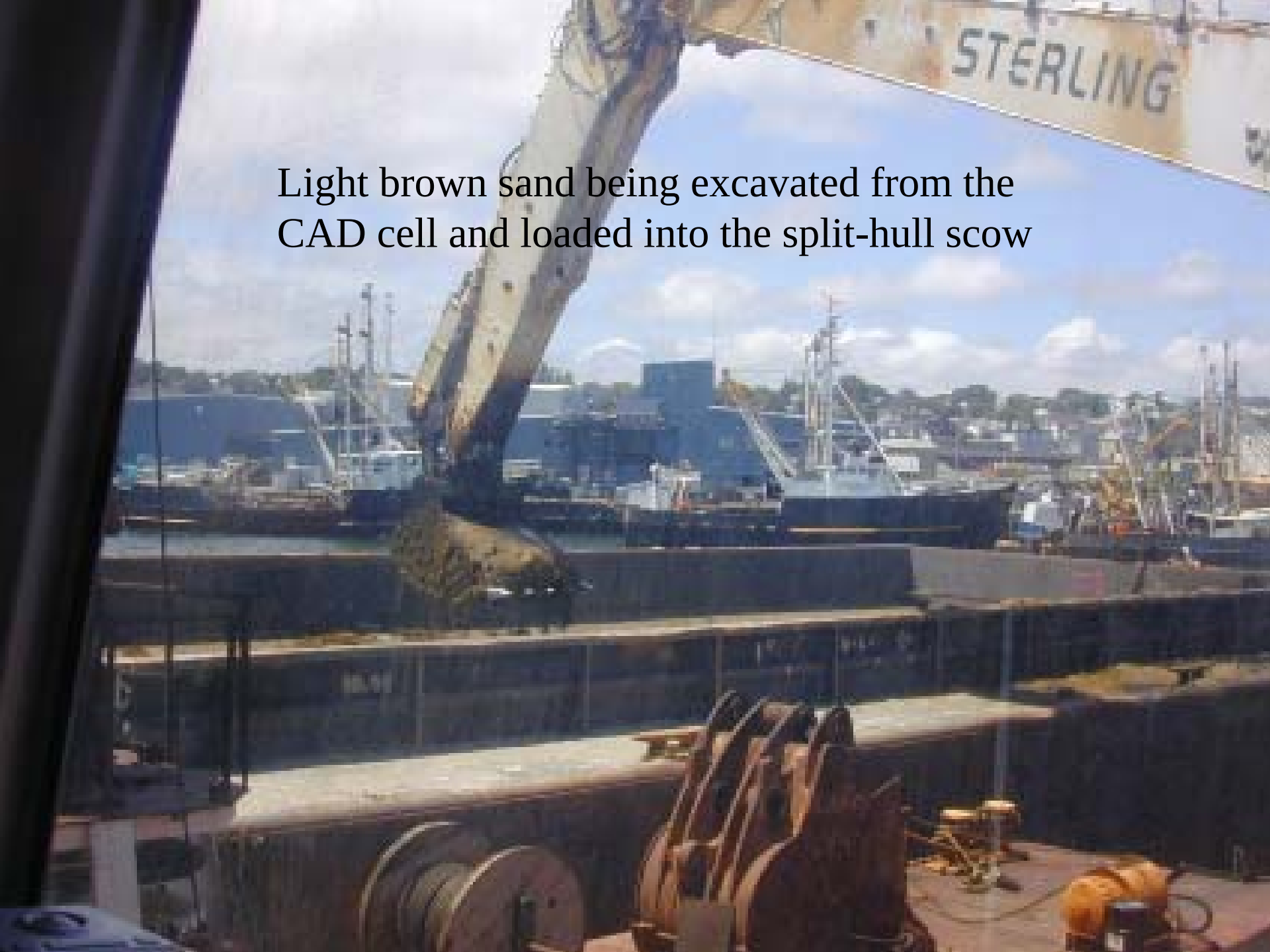


4. Placement of dredged sediments into the CAD cell



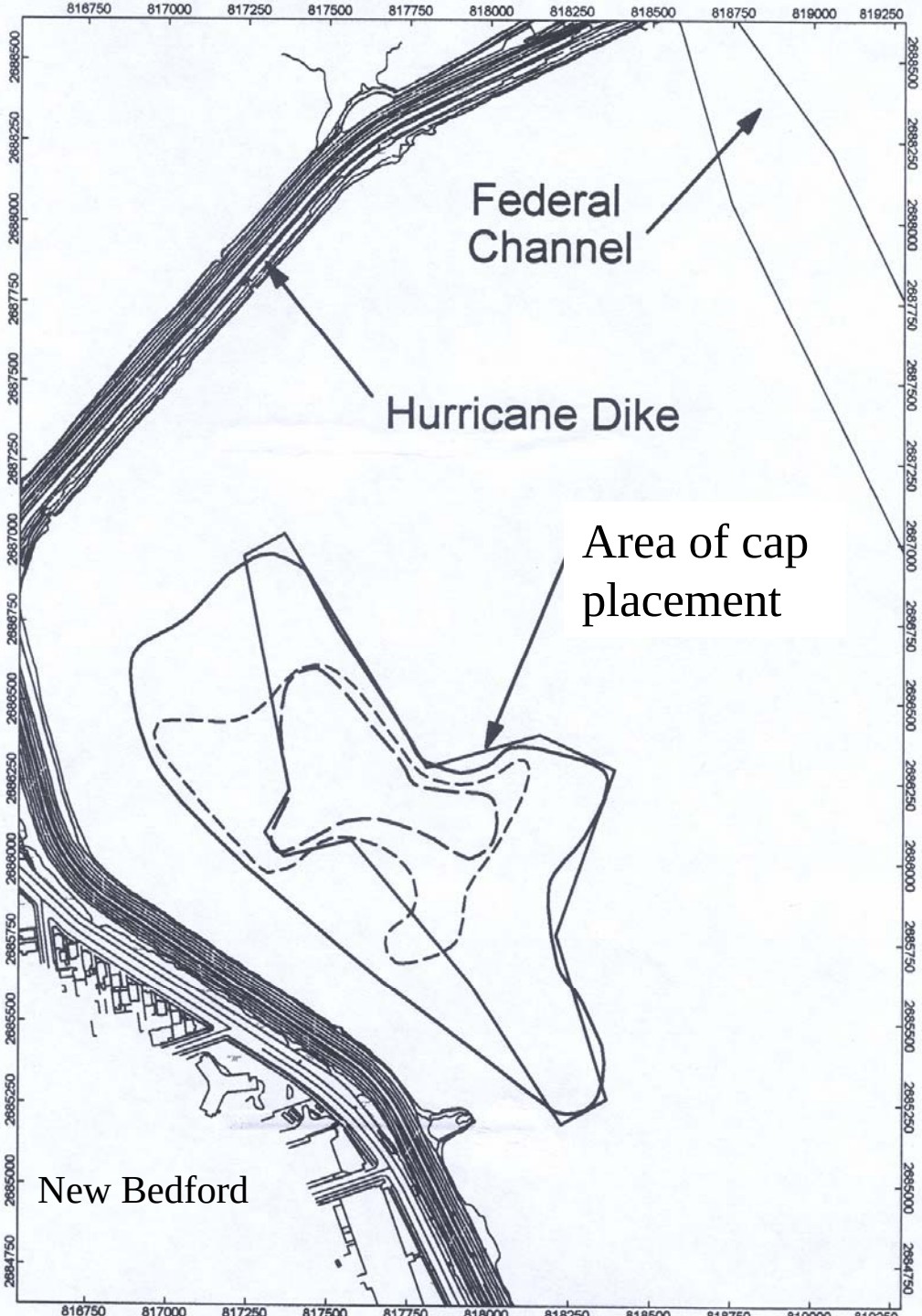
5. Placement of clean cap (after consolidation)

The port’s CAD cell being excavated (2005)

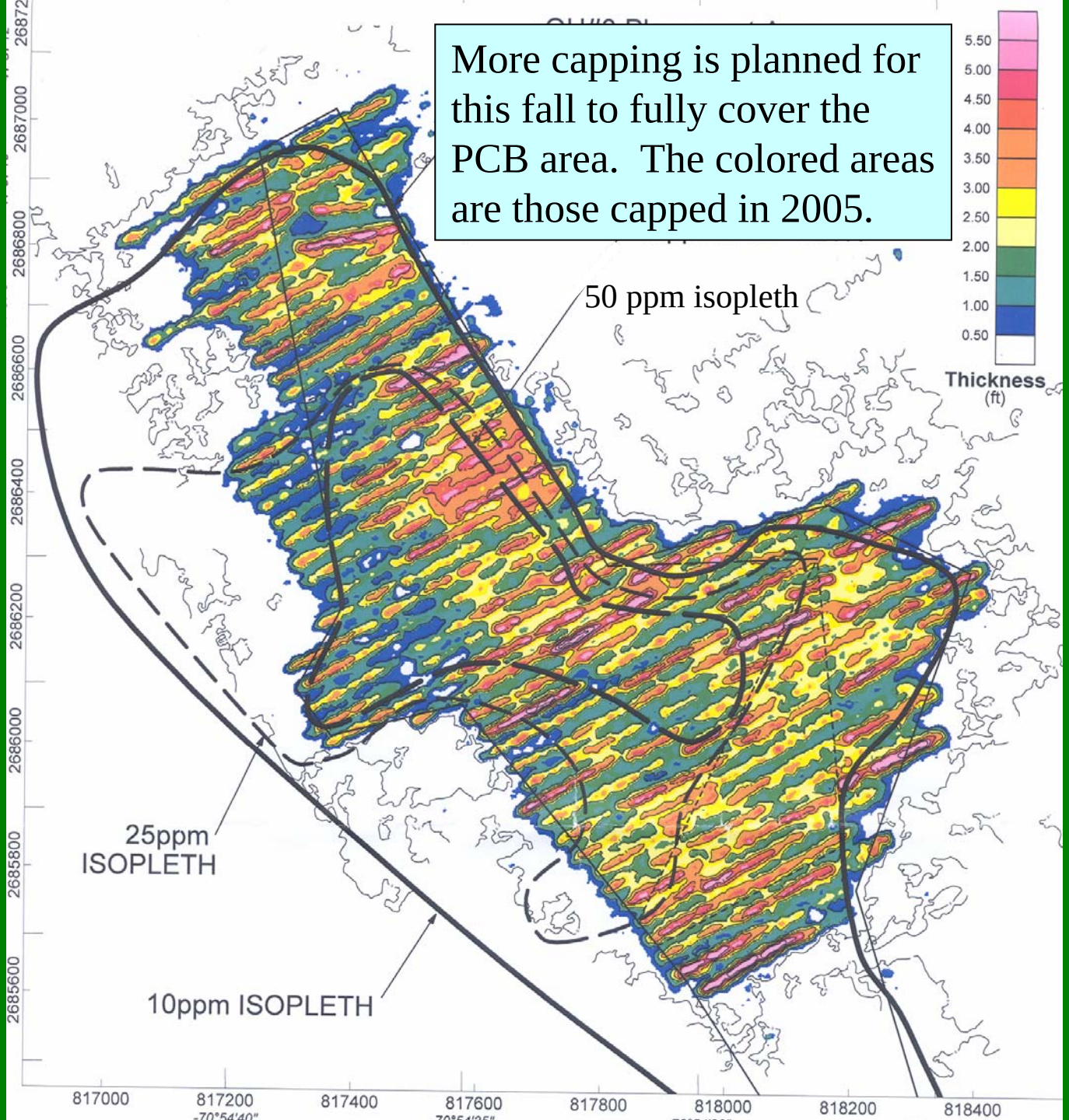


Light brown sand being excavated from the CAD cell and loaded into the split-hull scow

Split-hull scow just starting to open and place clean sand as a cap near the Cornell-Dubilier mill



Location of the underwater cap in relation to the hurricane barrier


More capping is planned for this fall to fully cover the PCB area. The colored areas are those capped in 2005.
50 ppm isopleth
25ppm ISOPLETH
10ppm ISOPLETH
Thickness (ft)
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
2687000
2686800
2686600
2686400
2686200
2686000
2685800
2685600
817000
817200
817400
817600
817800
818000
818200
818400

Vacant Aerovox Mill Update

Negotiations are underway with the City, MassDEP and the PRP for demolition and OFFSITE disposal of all debris.

Site mobilization hopefully this winter, depending on success of the ongoing negotiations.

The PRP also wants to comply with the state's site cleanup program in parallel with the EPA action.

After demolition, further site Sampling is planned before determining what type of cap and what other cleanup actions are required for the state's cleanup program.