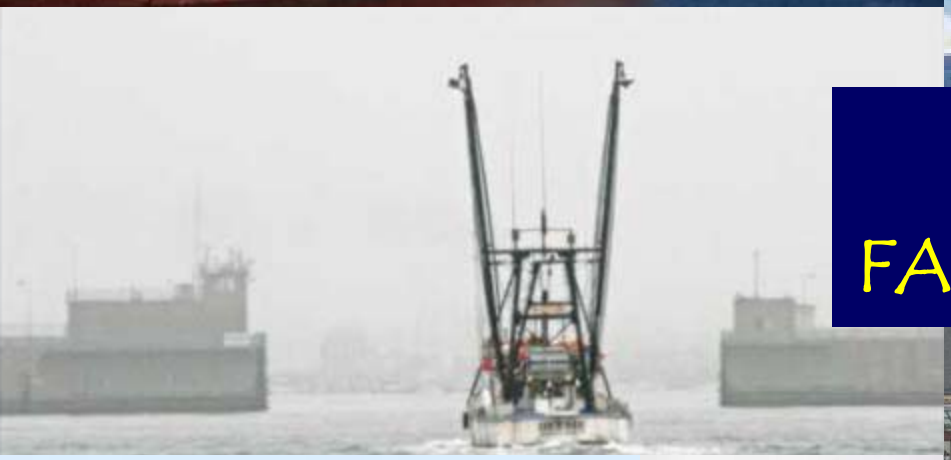
NEW BEDFORD FAIRHAVEN HARBOR



Three parts to tonight's presentation:

1. Navigational dredging update
2. Superfund cleanup: background & this year's work
3. Update on EPA's analyses of potential alternatives

New Bedford/Fairhaven Harbor Navigational Dredging

What is Navigational Dredging?

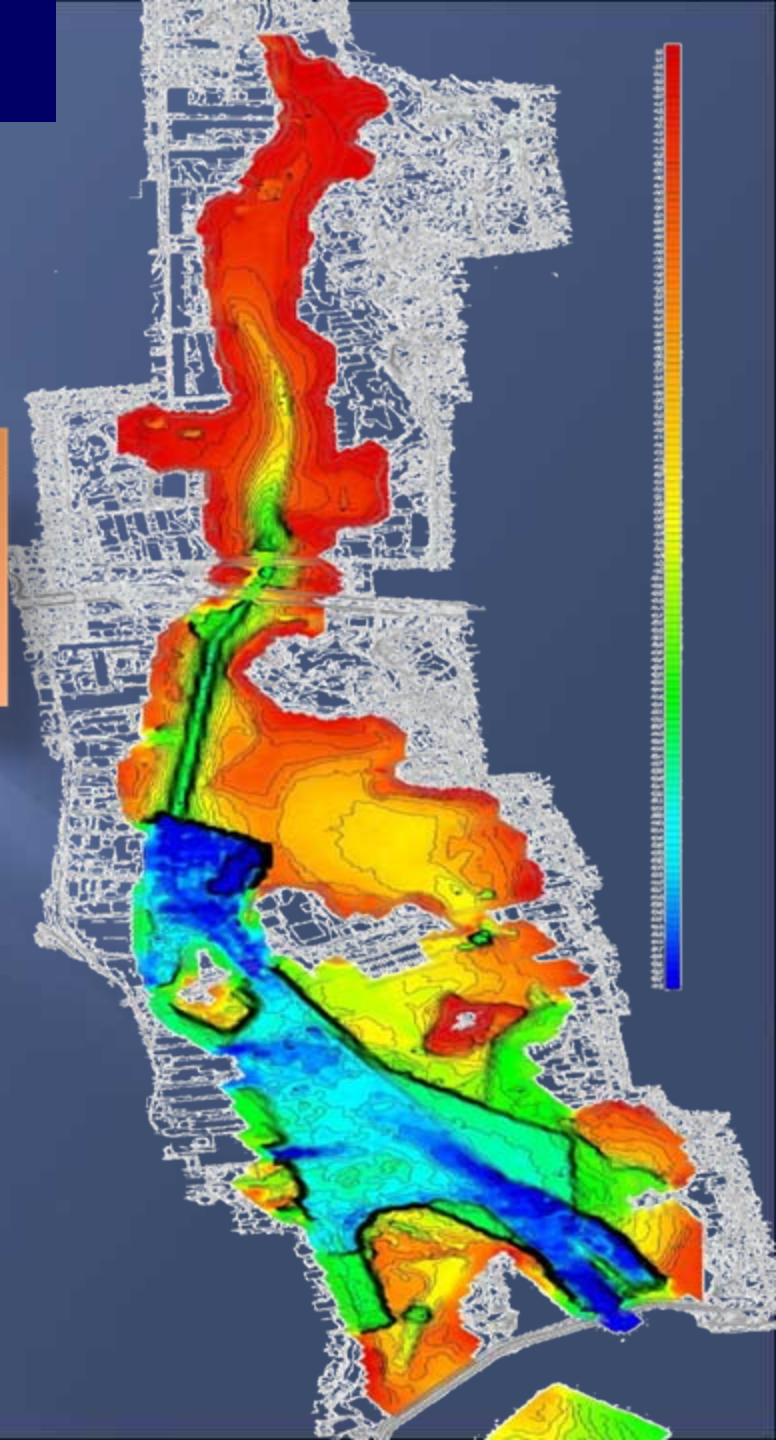
Why is it important?

Environmental Remedy

Phases I and II removed 200,000 cubic yards of contaminated sediment

Cleaner Harbor

Phase III to remove over 55,000 cubic yards of contaminated sediment



Supports Maritime Industries

Over 4,400 Jobs

Commercial Fishing	• Number 1 Value Fish Port; $1 Billion Industry; 500 vessels • 65.5 Million pounds of fish valued over $280 million; 500 Vessels • 35 Seafood Processing Plants and 25 Whole Sale Companies
Cruise	• Brings ~1,500 People through the Port; 16 Ports of Call in 2009 • 5 Year contract with American Cruise Lines
Ferry	• New England Fast Ferry and Cuttyhunk Ferry bring 120,000 people through the port annualy • Both operations are now moving freight
Freight	• Maritime Terminal: 6 freighters of Moroccan citrus in 2008 • State Pier: Break bulk to Portugal, Africa, Haiti, & Cape Verde • Sprague Terminal: Home Heating Fuel
Recreation / Excursion	• 8 Marina's in the New Bedford / Fairhaven Harbor; Moorings • 2007: 1 Sailing Tour; 2008: 3 Sailing Tours; Booking now for 2009 • 3 Charter Fishing Operations
Barge Operations	• 4 Operate out of the Port carrying aggregate to the Islands as well as steel and other project cargo
Shipyards	• Fairhaven Shipyard and Steamship Authority (Fairhaven) • Major employers and support Commercial Fishing Industry
Supporting Services	• Over 75 supporting businesses • Ice; Fuel; Vessel Painting; Welding; Electric; Legal; Insurance; Settlement Houses; Salvage

Opportunity for Future Growth

#1 Value Fishing Port in Nation

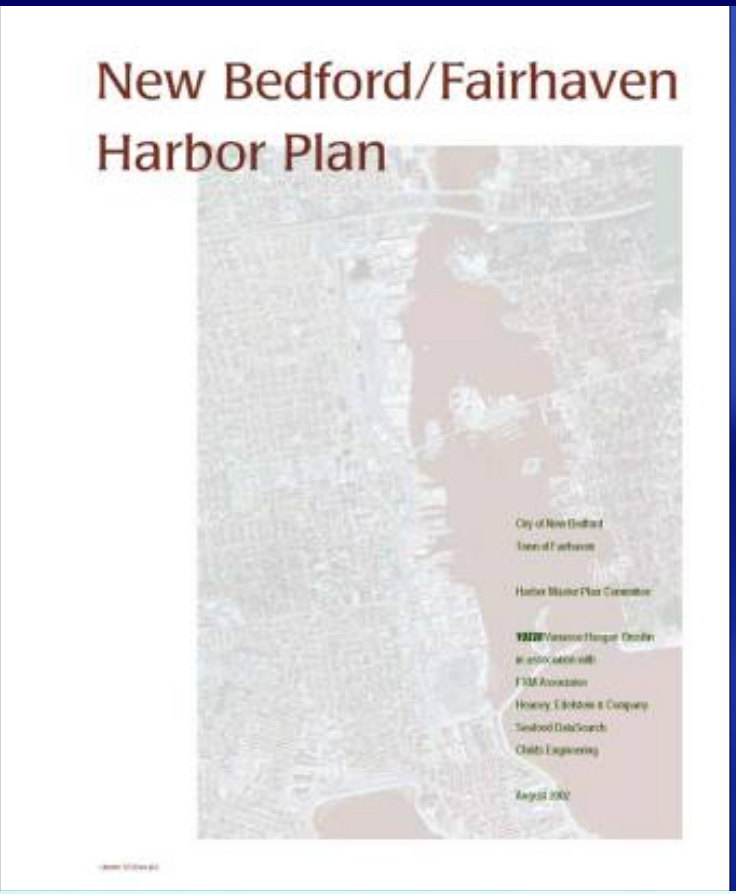
Industry Growth
(Cruise, Ferry, Shipping, Recreational Boating, Ship Repair)

Trade Expected to Double

Larger Vessels Can Use the Harbor

Modern Piloting Rules Dictate Deepening

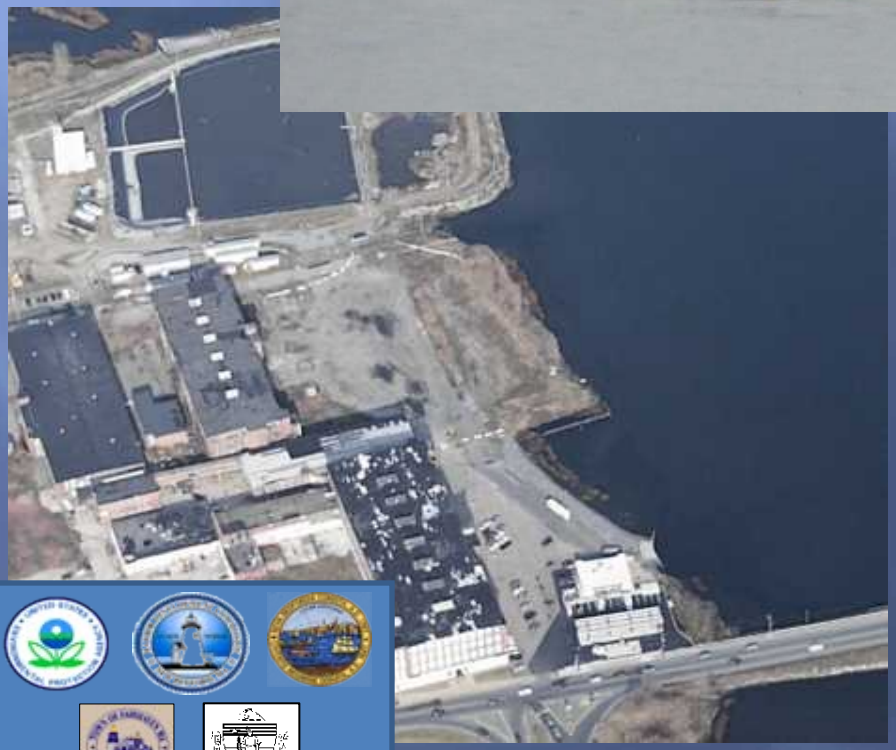
How Decisions are Made



- **Harbor Plan**
- **Dredge Materials Management Plan**
- **Committee of City and Town Officials, and State and Federal Regulators Meets Monthly**

Phase III Navigational Dredging
Upper Harbor

Complete



Phase III Navigational Dredging: Lower/Inner Harbor

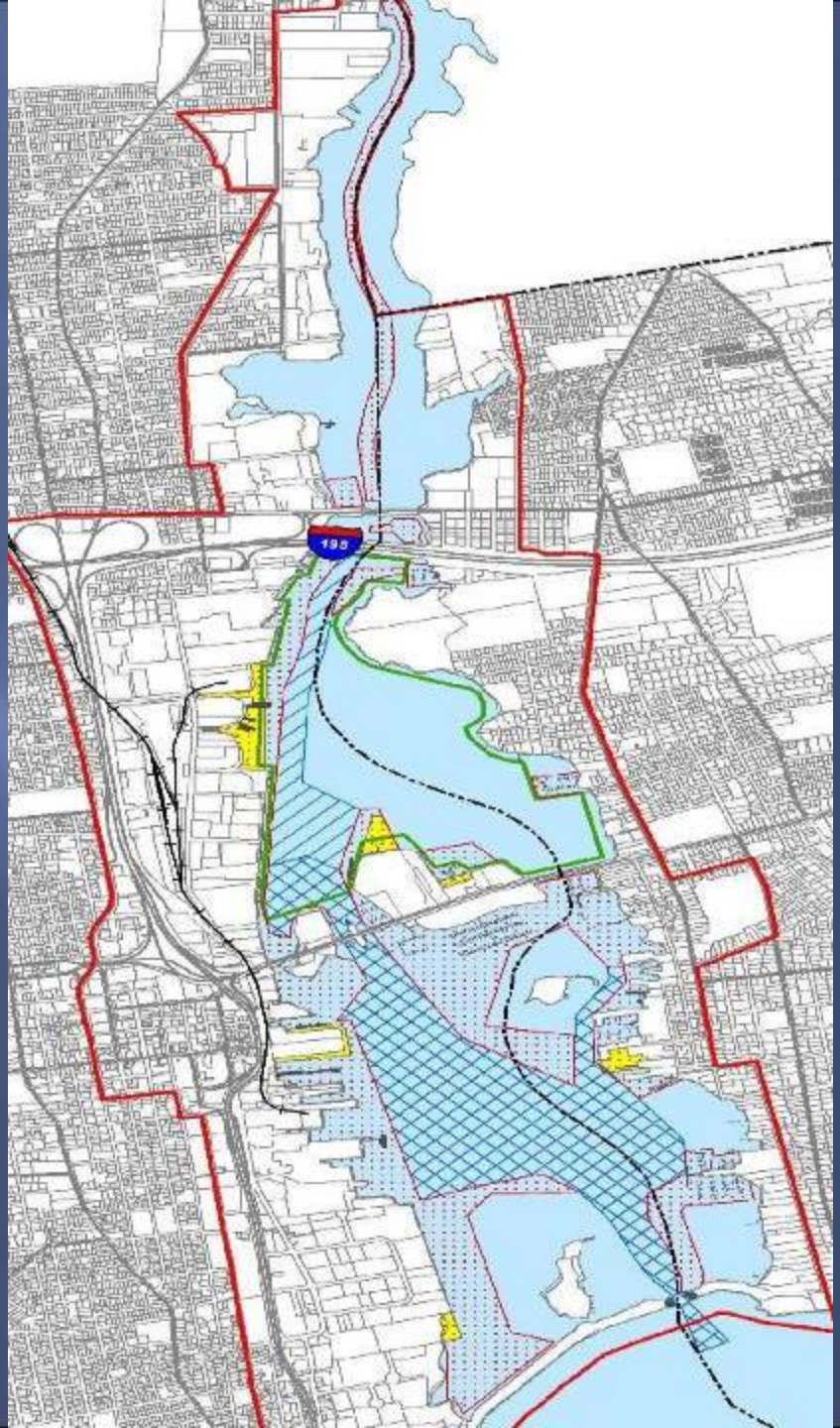
Underway: June 30 target completion date

The Story to Date

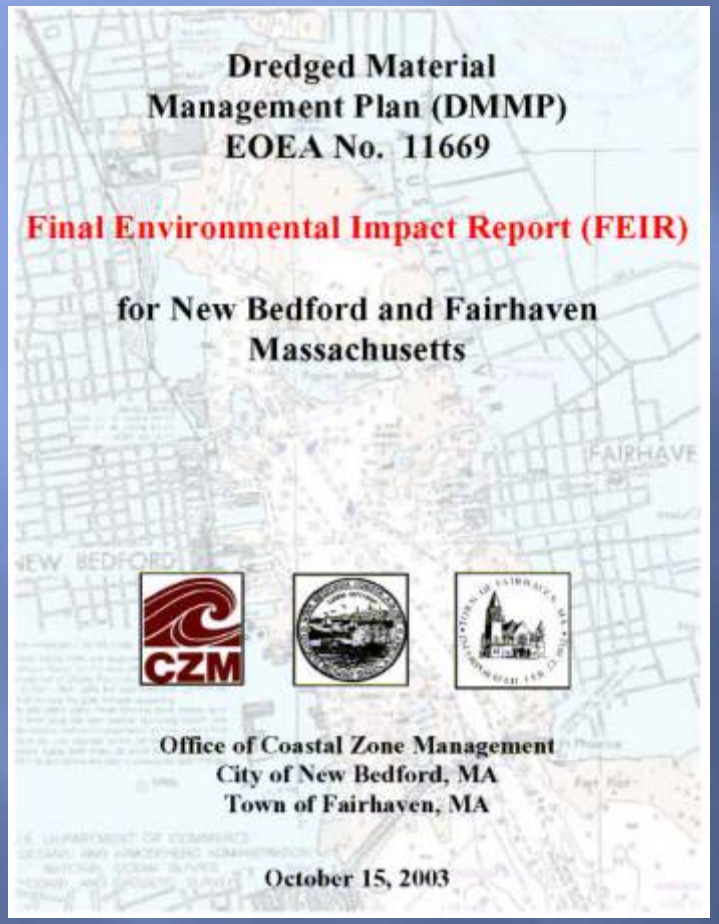
Phase I, II, III

- Industry Progress and Clean-up
- Freighters in Port for the first time in 50 years
- Removed 200,000 cubic yards of contaminated sediment
- Phase III dredging is currently underway, removing another 50,000 cubic yards of contaminated sediment
- 130,000 cubic yards of the material dredged has been placed in CAD cells

CAD CELL TECHNOLOGY NEW BEDFORD/ FAIRHAVEN HARBOR



Navigational Dredging Sediment Disposal Method Selection Process



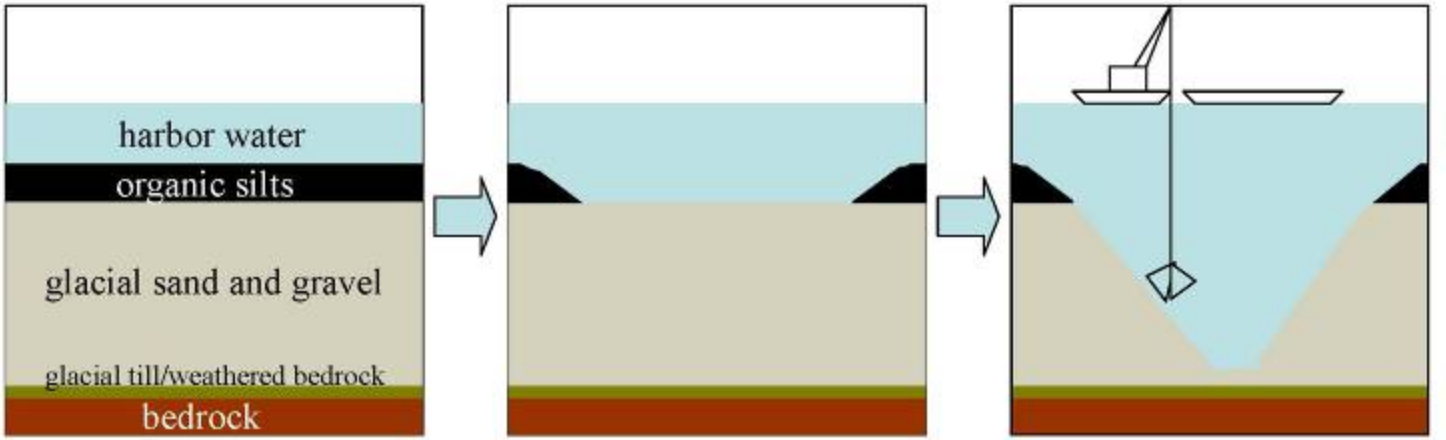
Fact: Sediments Throughout the Harbor Contain Some Level of Contamination.

In 2003, DEP and CZM Published a Study called the DMMP:

The Study found CAD Cells to be the best solution for Navigational Dredging.

WHAT IS A CAD CELL?

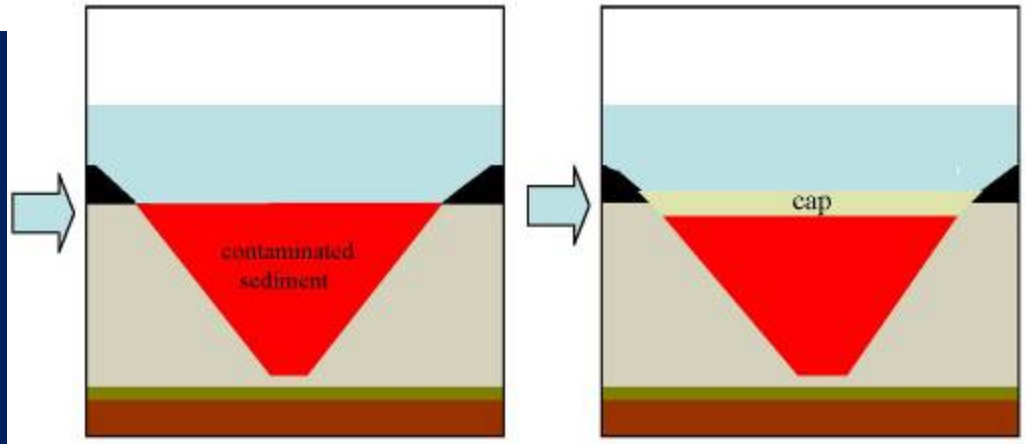
- Confined Aquatic Disposal Cell



1. Harbor bottom as is

2. Excavation of silts

3. Excavation of sand and gravel



4. Placement of dredged sediments into the CAD cell

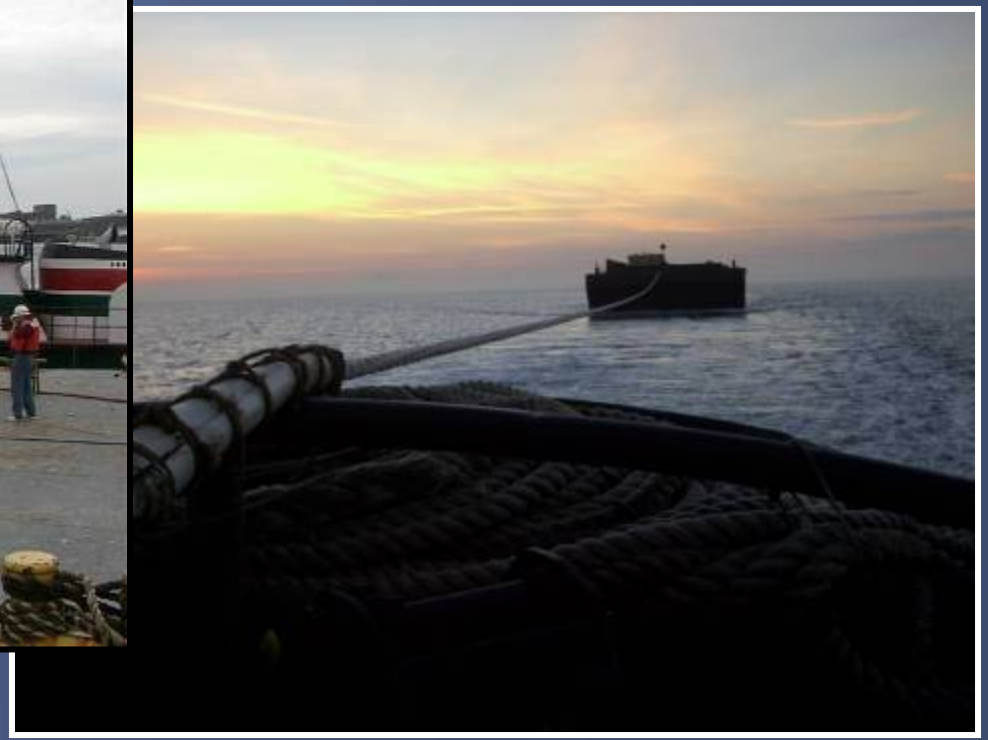
5. Placement of clean cap (after consolidation)

PUBLISHED REPORTS OF CAD CELL USAGE

"Environmental and human health risk assessment of the CAD cell alternative has shown that it can provide one of the lowest risk options compared with other alternatives (Kane-Driscoll et al, 2002)."

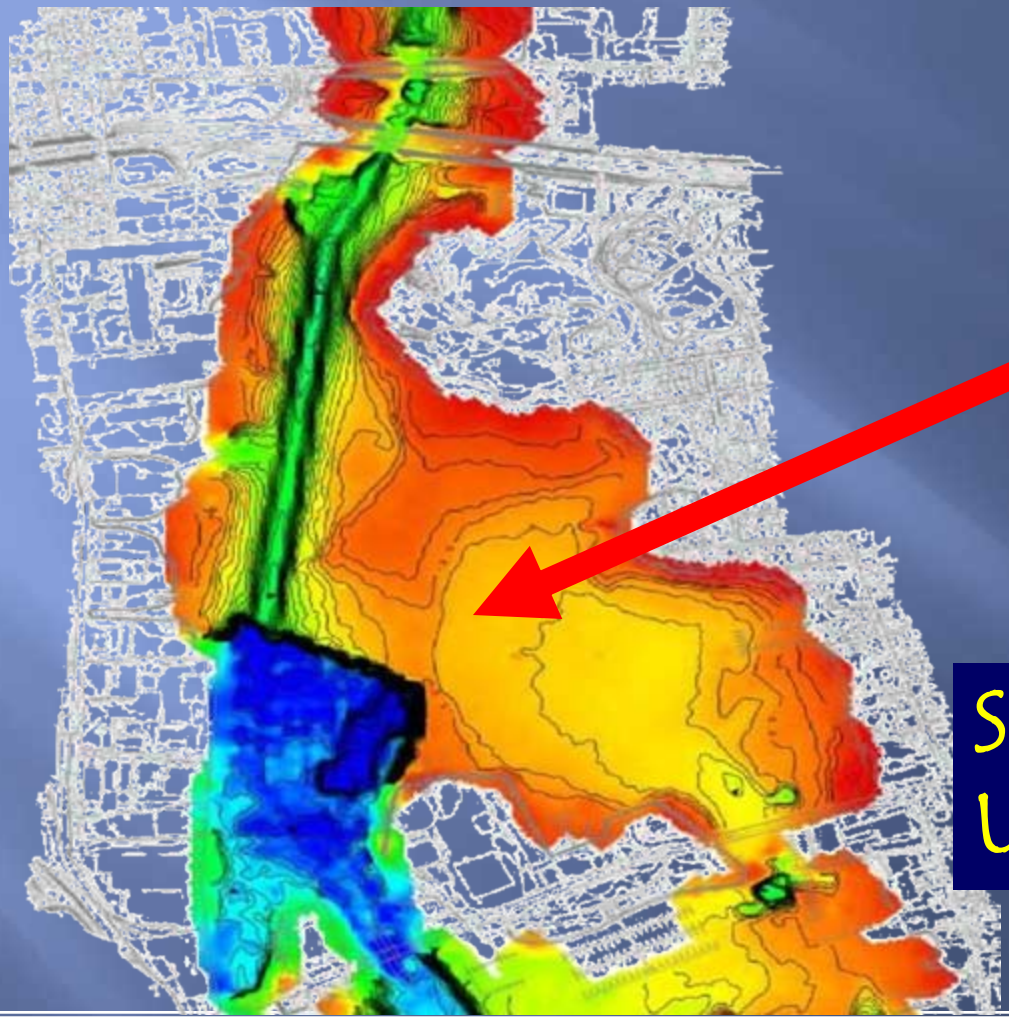
From Paper Presented at 2005 3rd International Conference on Remediation of Contaminated Sediment, by Thomas J. Fredette,
US Army Corps of Engineers – New England District

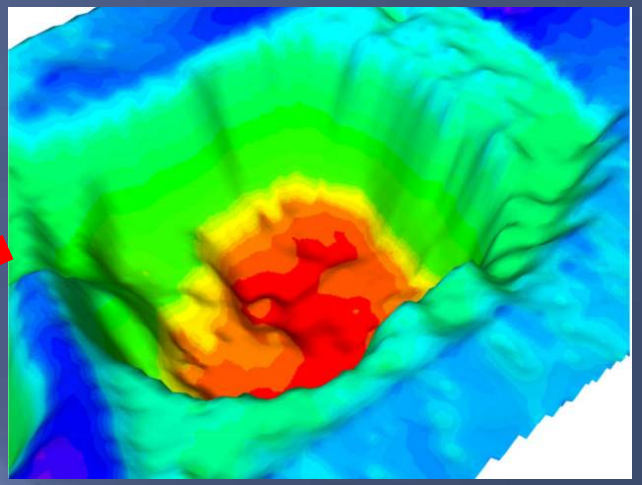
CONSTRUCTION OF CAD CELLS IN NEW BEDFORD/FAIRHAVEN HARBOR



STATUS OF CAD CELLS IN NEW BEDFORD/FAIRHAVEN HARBOR

RECENTLY COMPLETED CAD CELL #2





Successful Disposal of Upper Harbor Material

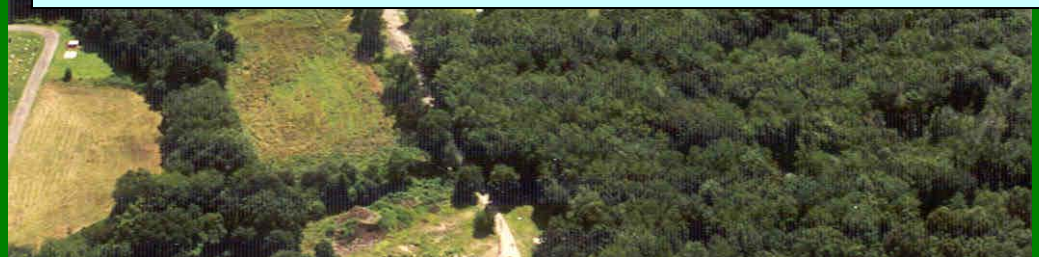
Cornell-Dubilier

Second capacitor facility in outer harbor

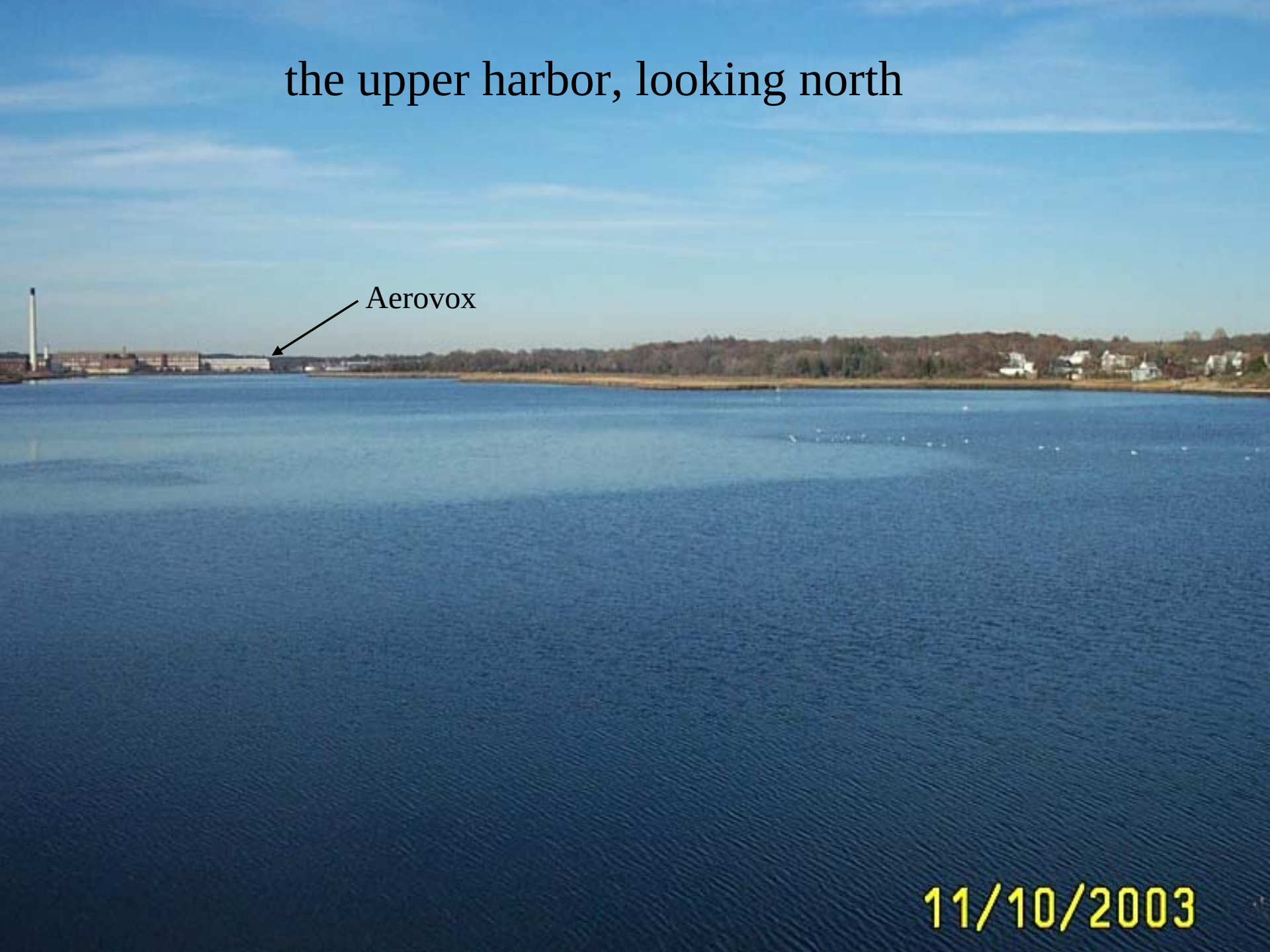
Aerovox

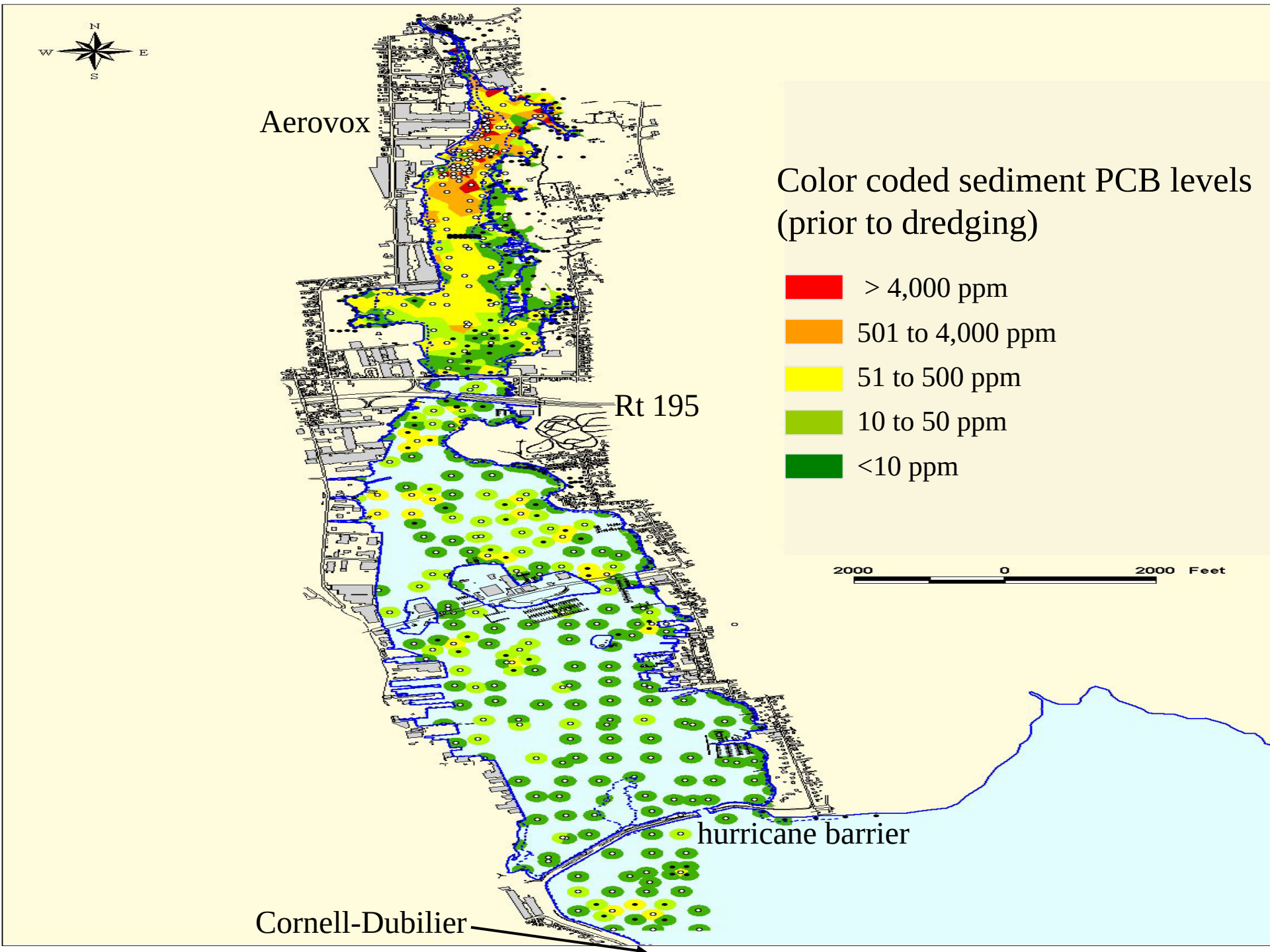
Electronic capacitor facility released an estimated 275 tons of PCBs from the 1940s to the 1970s

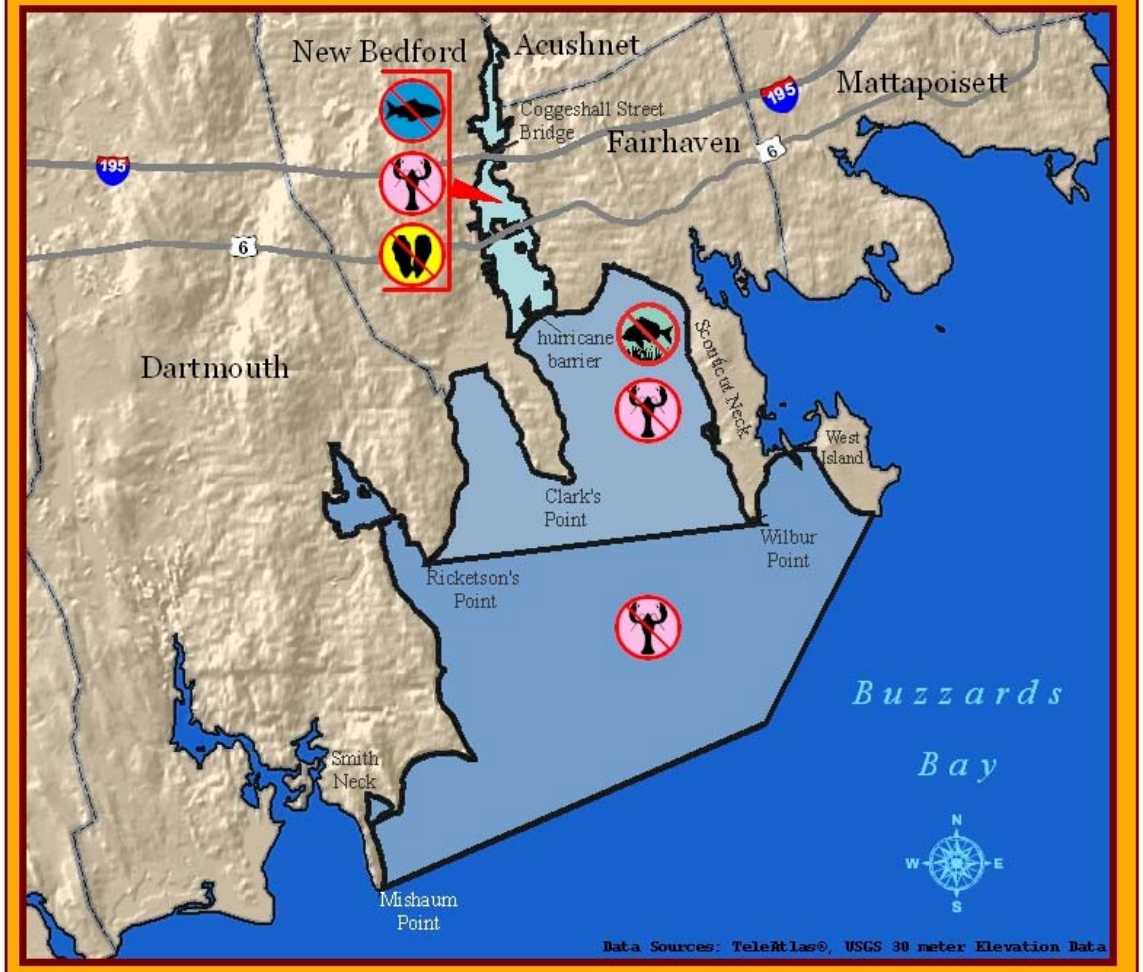
Part 2 - the Superfund harbor PCB cleanup



the upper harbor, looking north




N
W
E
S
Aerovox
Rt 195
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
hurricane barrier
Cornell-Dubilier



Do NOT eat any fish
No coma pescado
Não coma peixe

Do NOT eat any lobster
No coma langosta
Não coma lagosta

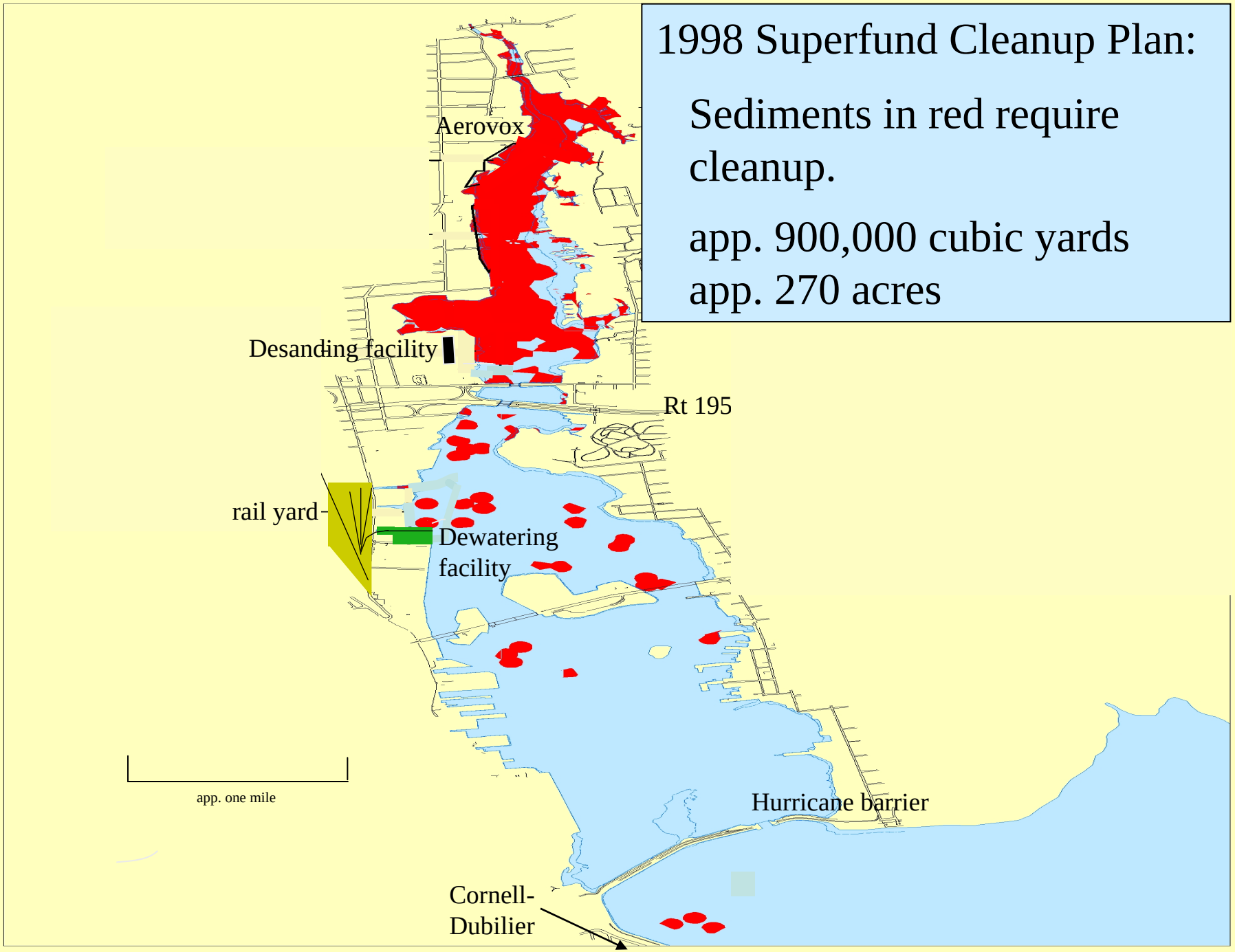
Do NOT eat bottom feeding fish
No coma pescado de fondo:
Não coma peixe de fundo:

- 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)

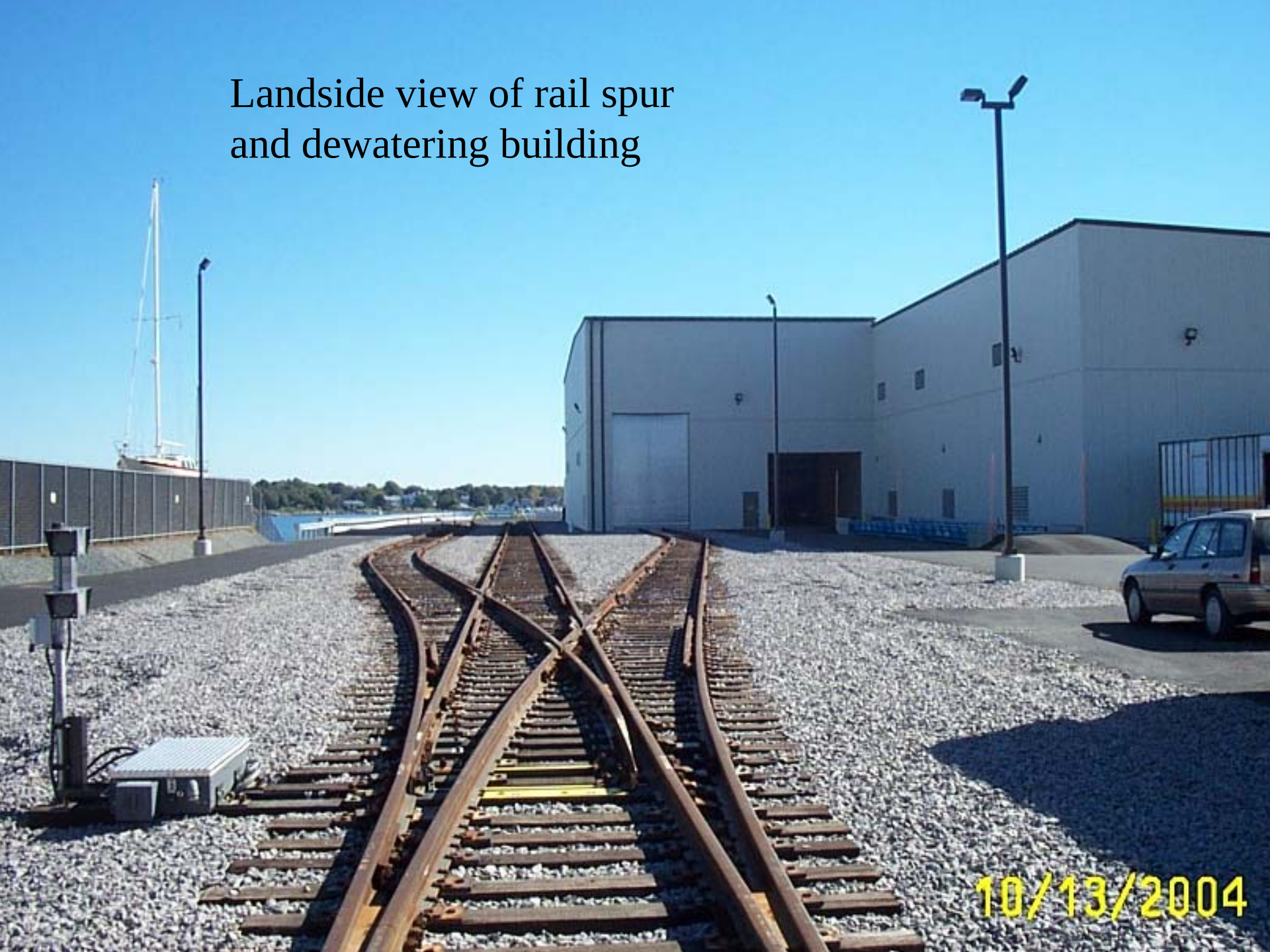

1998 Superfund Cleanup Plan:
Sediments in red require cleanup.
app. 900,000 cubic yards
app. 270 acres
Aerovox
Desanding facility
Rt 195
rail yard
Dewatering facility
app. one mile
Hurricane barrier
Cornell-Dubilier

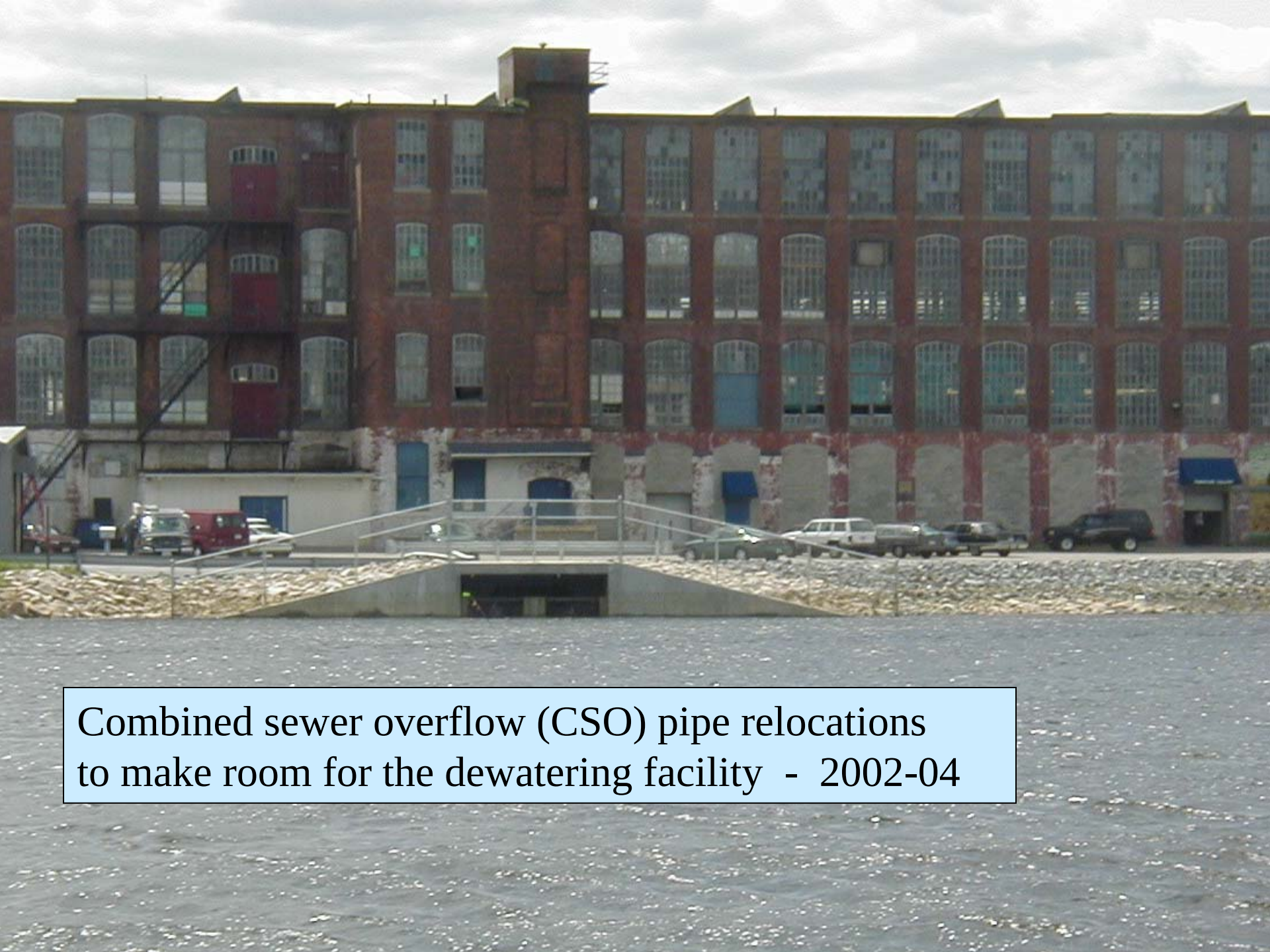

QUICK look at progress to date
HYUNDAI
Acushnet shoreline cleanup – 1999-2000

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


North of Wood Street cleanup – 2002/03

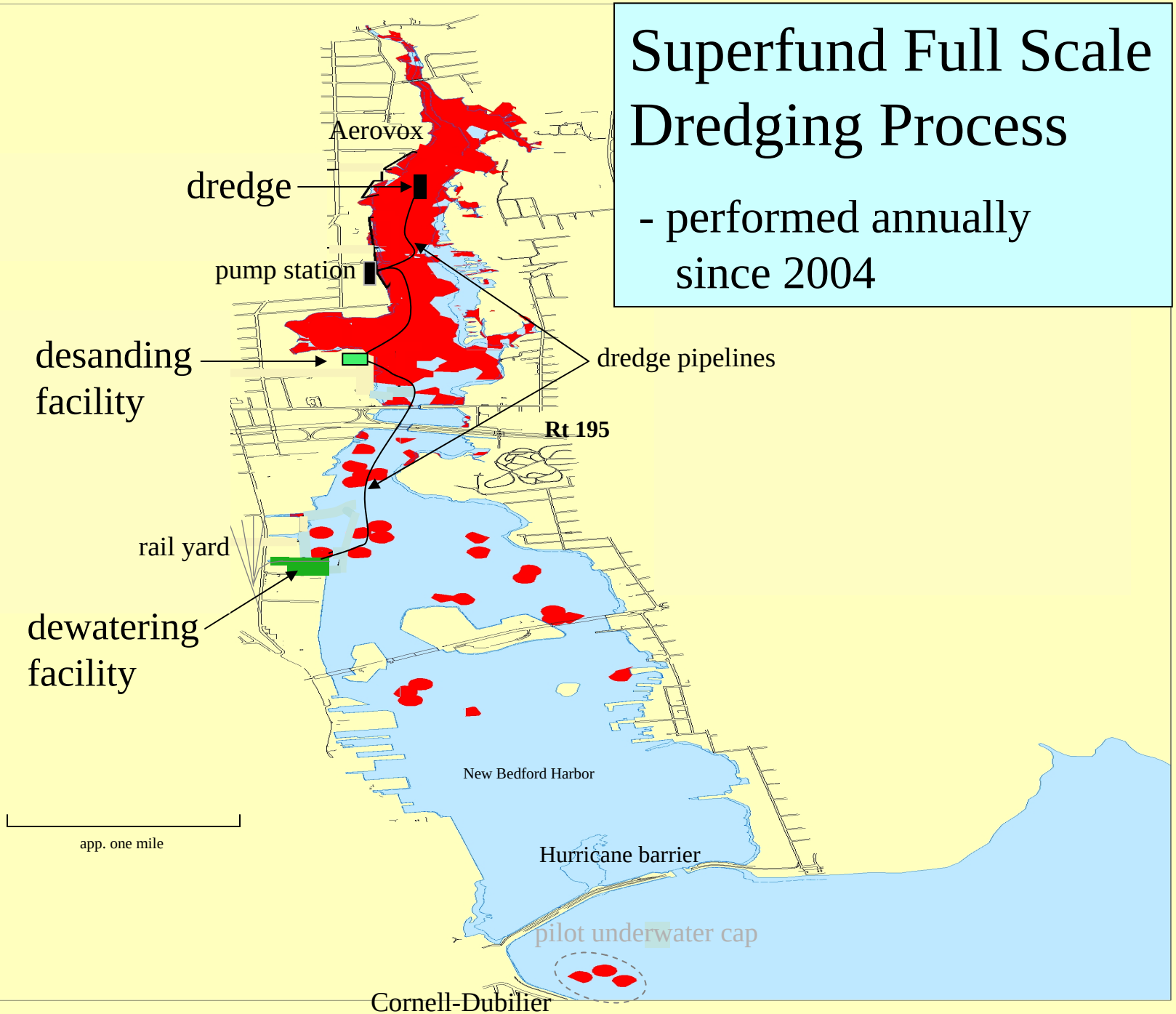

The restored river and stream banks (2008)

2005 - pilot underwater cap near Cornell-Dubilier mill

Aerovox shoreline cleanup - spring/summer 2008

Superfund Full Scale Dredging Process

- performed annually since 2004



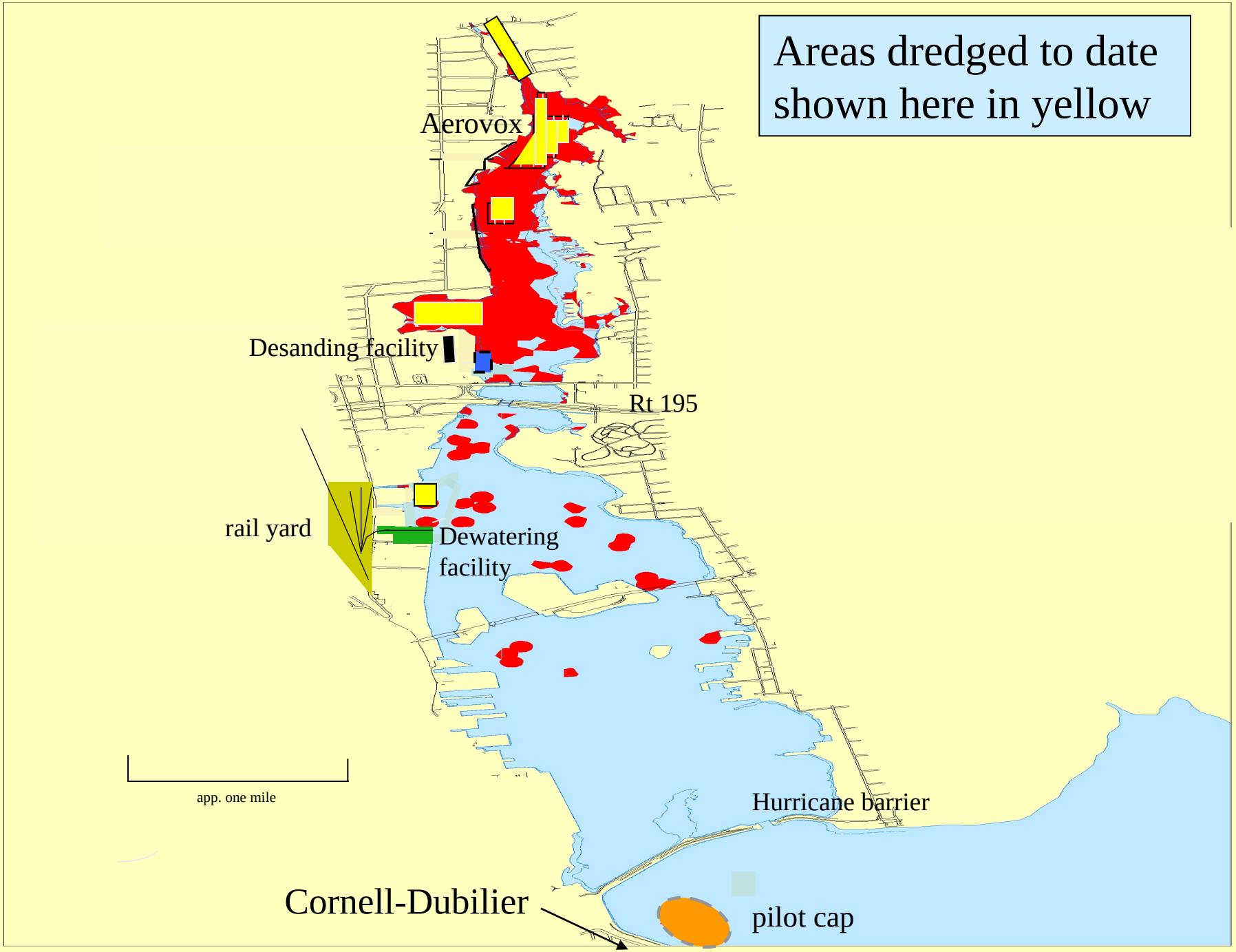
Superfund dredging and disposal operations

1. Dredging in upper harbor

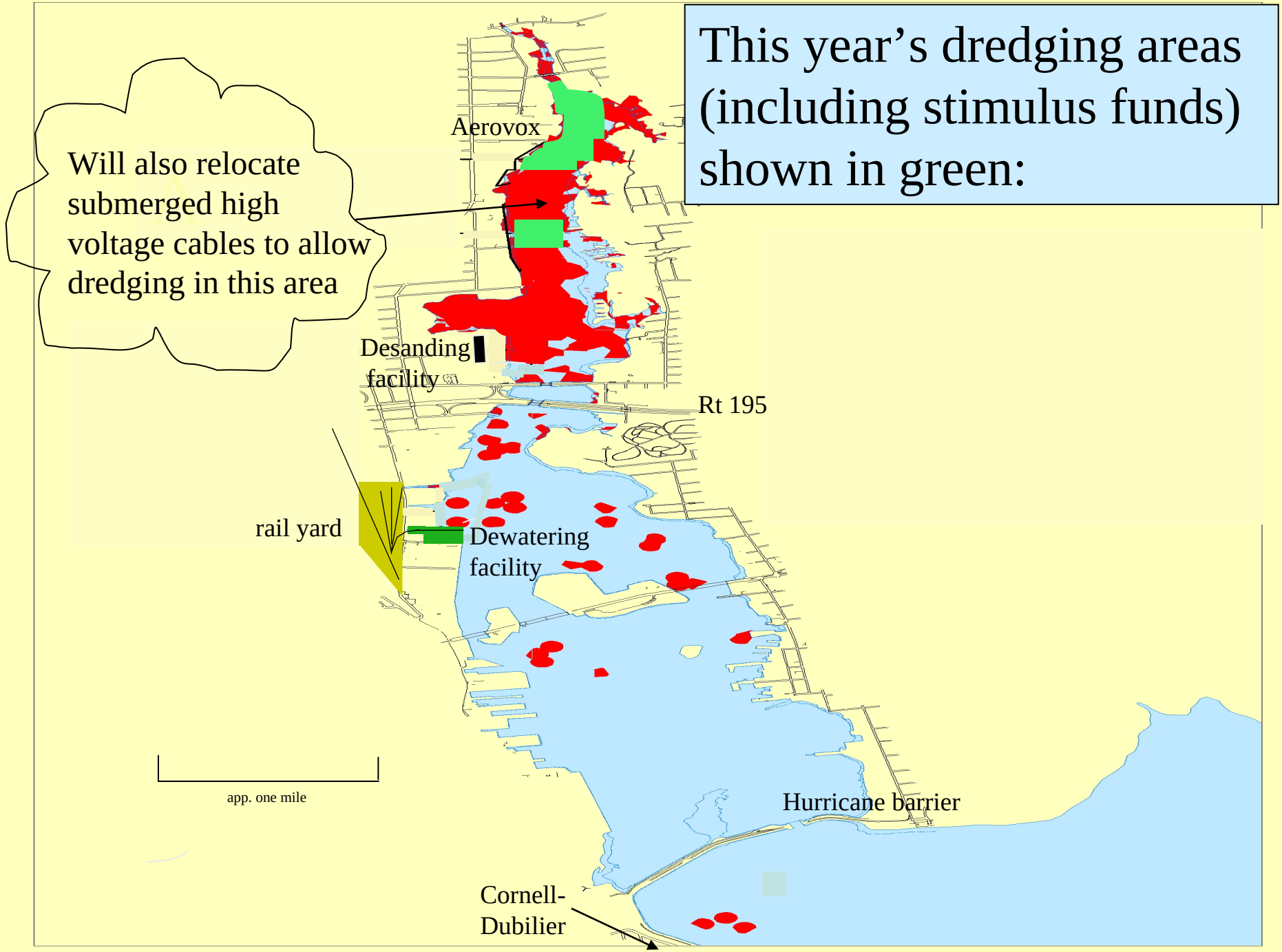
2. Desanding

3. Dewatering

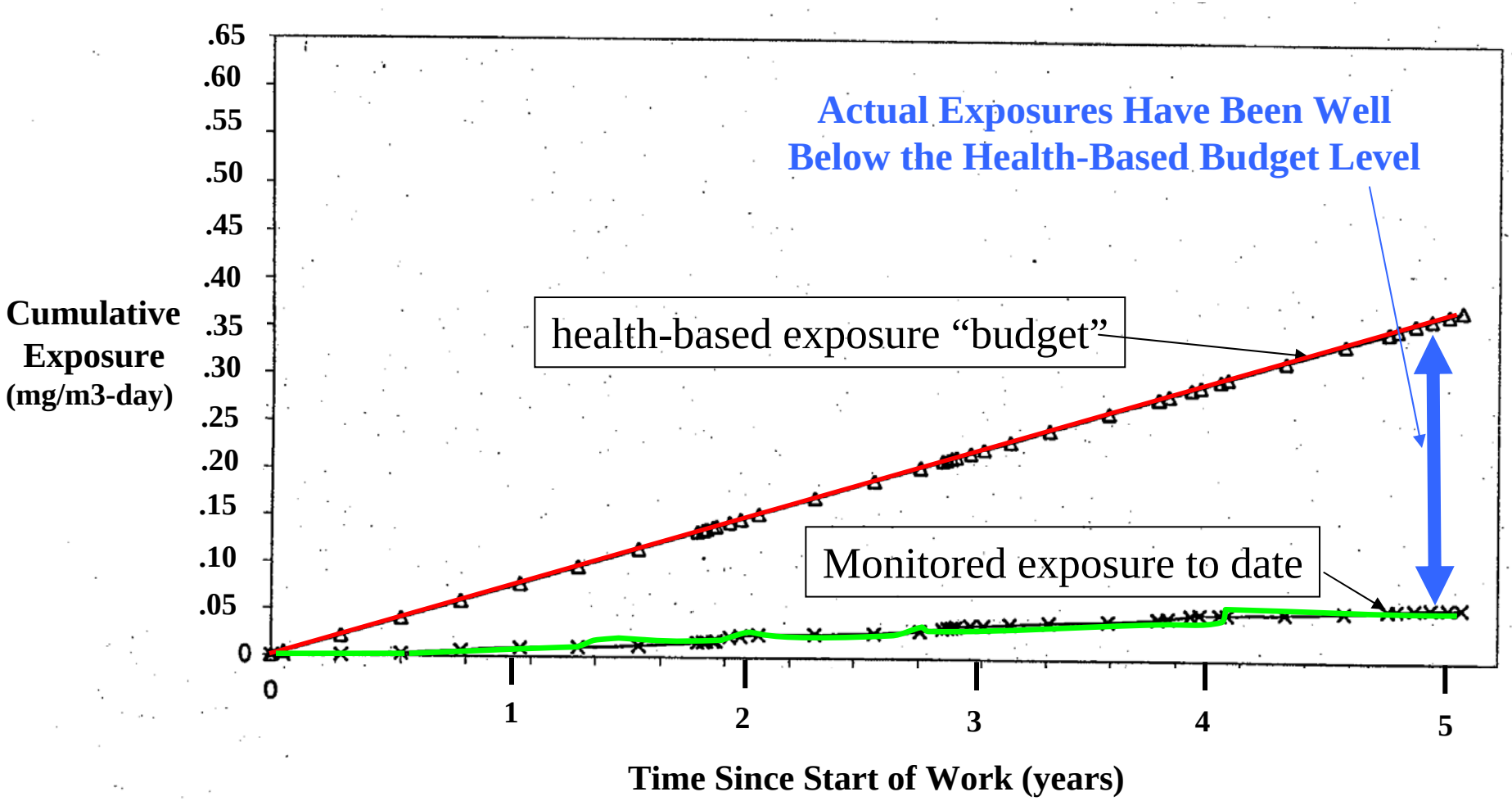
4. Loading to rail for offsite disposal


Areas dredged to date shown here in yellow
Aerovox
Desanding facility
Rt 195
rail yard
Dewatering facility
app. one mile
Hurricane barrier
Cornell-Dubilier
pilot cap

This year's dredging areas (including stimulus funds) shown in green:



Comparing Coffin Ave air monitoring data to health-based "budget"

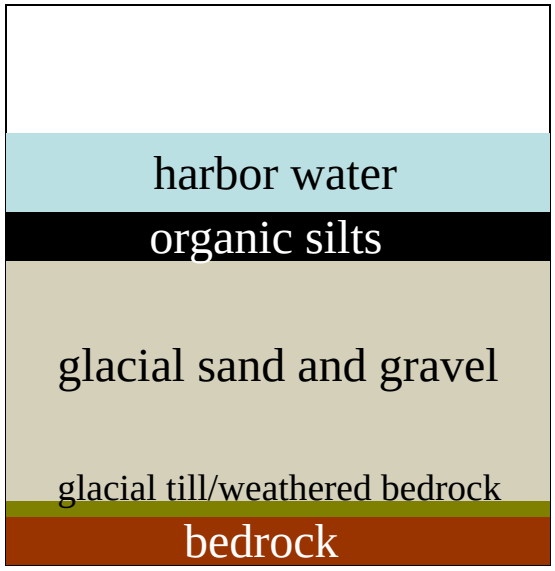


Section 3
Update on EPA's Evaluation of Potential Alternatives

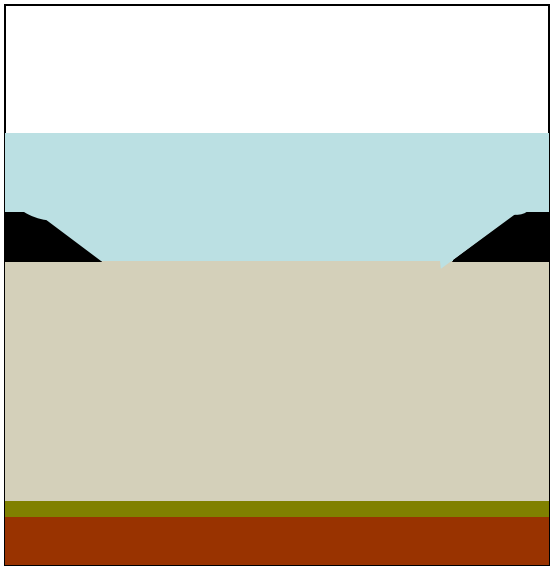
Cost and Schedule Estimates for Current Approach

3.5% annual inflation assumed; 2006 dollars

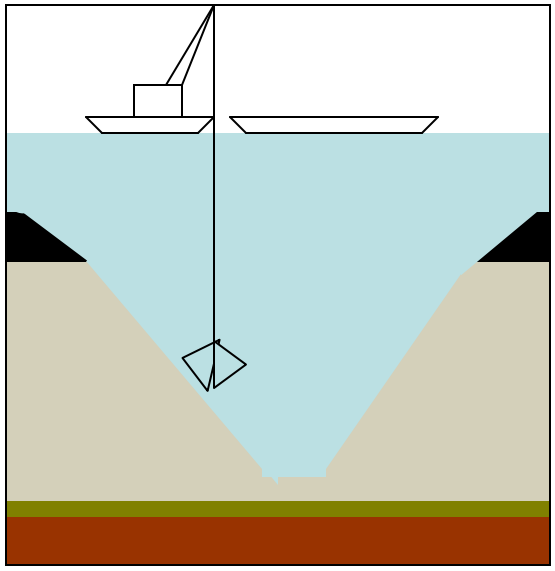
Annual funding level	Years to complete	Cost to complete
$80 million	4 to 5	$341 million
$30 million	18	$540 million
$15 million	38	$1,056 million



1. Harbor bottom as is

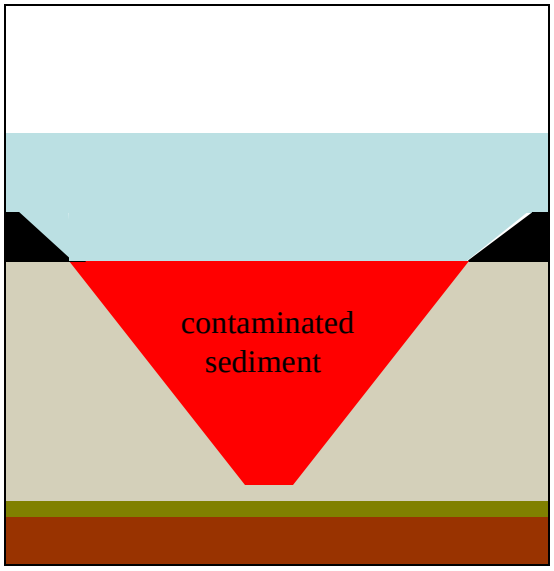


2. Excavation of silts

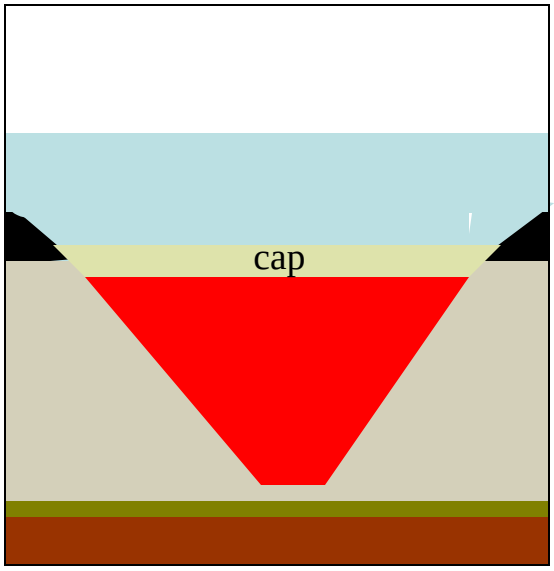


3. Excavation of sand and gravel

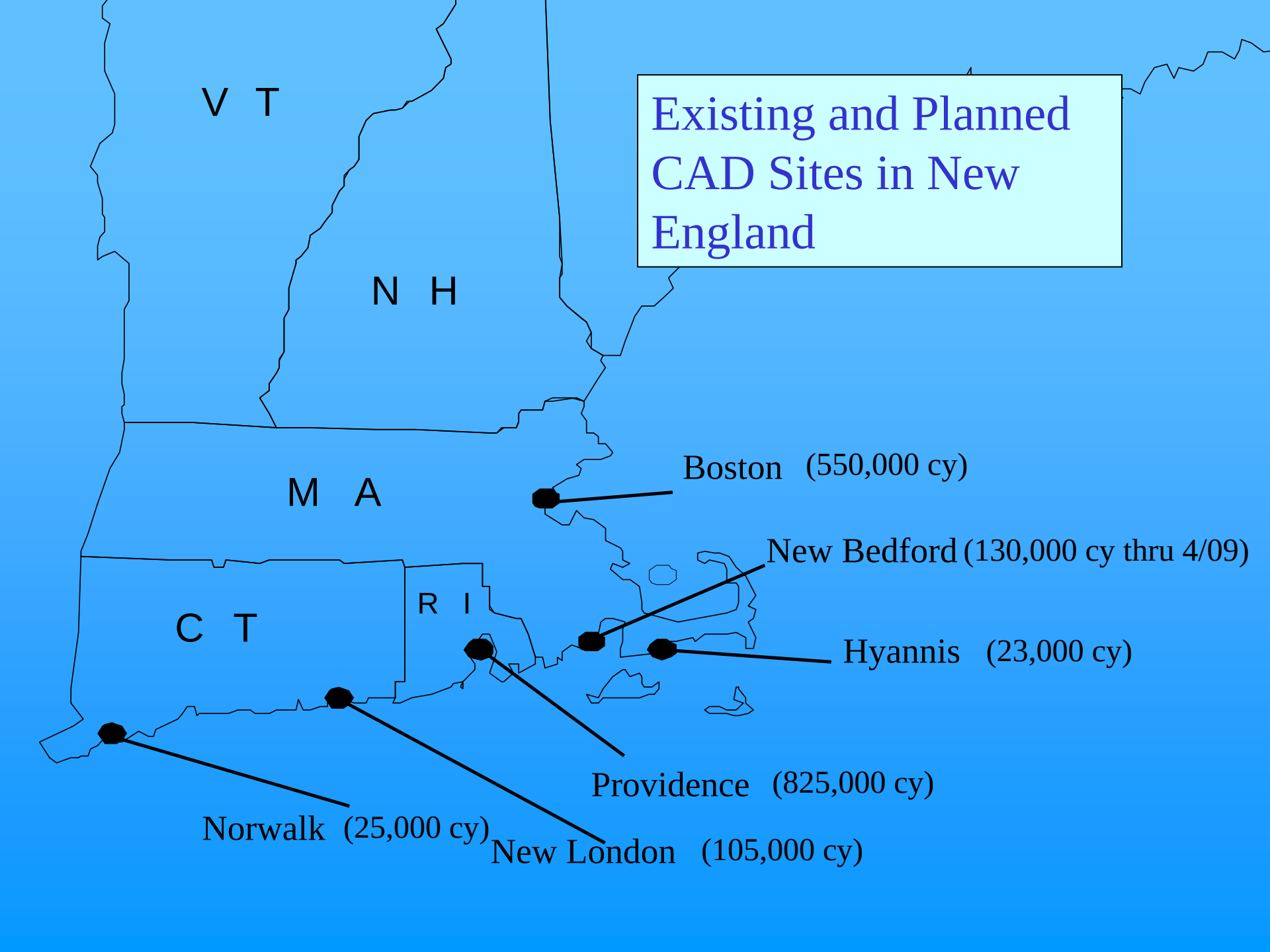
One alternative: use CAD cells to dispose of some of the sediment.



4. Placement of dredged sediments into the CAD cell

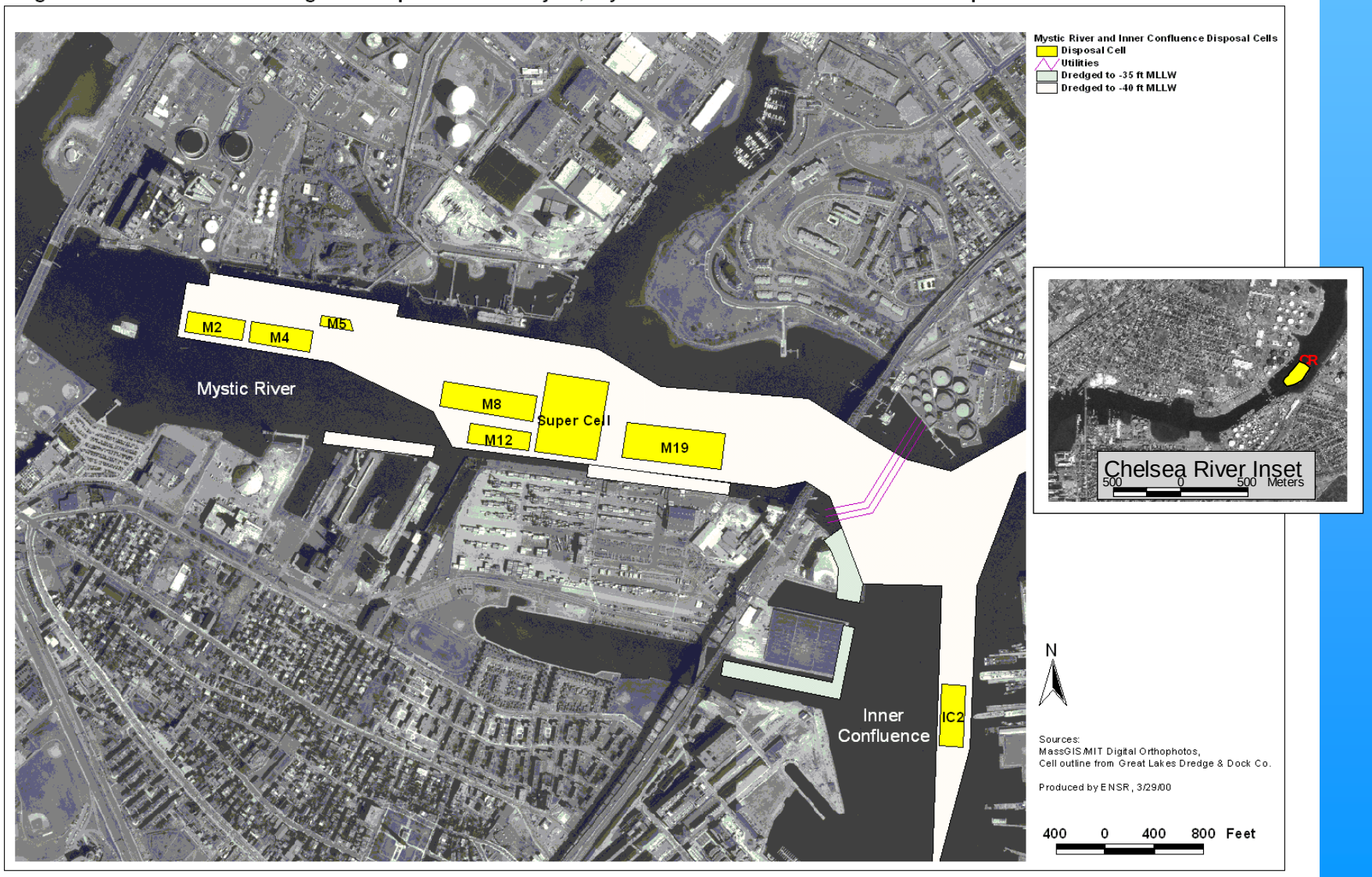


5. Placement of clean cap (after consolidation)


Existing and Planned CAD Sites in New England
V T
N H
M A
C T
R I
Boston (550,000 cy)
New Bedford (130,000 cy thru 4/09)
Hyannis (23,000 cy)
Providence (825,000 cy)
Norwalk (25,000 cy)
New London (105,000 cy)

Boston Harbor CAD Cells

Figure 2: Boston Harbor Navigation Improvement Project, Mystic River and Inner Confluence Disposal Cells



Providence In-Channel CAD Locations

New Bedford's CAD cell "#1" being excavated in 2005
(for navigational dredging)

On-going CAD cell evaluation: preliminary results

- Significant savings in time AND cost to complete
- Other urban harbors have successfully used CAD cells
- computer modeling will evaluate protectiveness
- environmental monitoring of City's navigational CAD cell (work in progress)


Any Superfund CAD cell in the lower harbor would be in the same general area as the City's existing navigational CAD cells.
EPA dewatering facility
CAD CELL #1
CAD CELL #2
(2008)
BORROW PIT CAD CELL
(2005)
(2003)
NEW BEDFORD
FAIRHAVEN
POPE'S ISLAND
Rt. 6

Next step for public comment and decision making for any changes to the harbor cleanup:

- Winter 2009/2010 for potential lower harbor CAD cell

(again, still in the evaluation phase)


Questions?