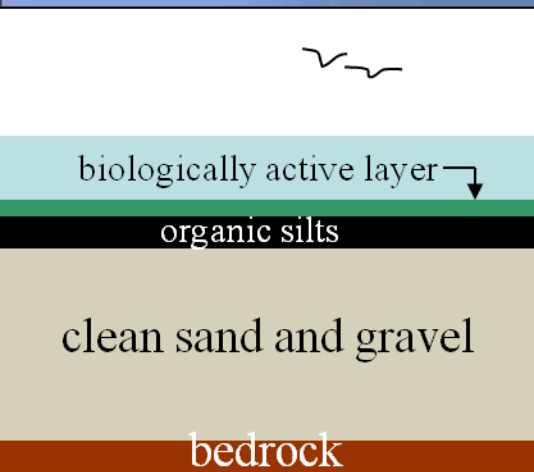


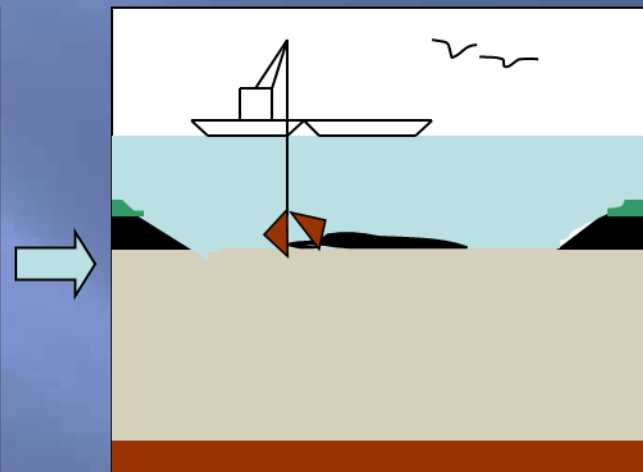
**Lower Harbor
Confined Aquatic
Disposal Cell (LHCC)
June 13, 2013**

Confined Aquatic Disposal Facility (CAD) Projects in New Bedford Harbor

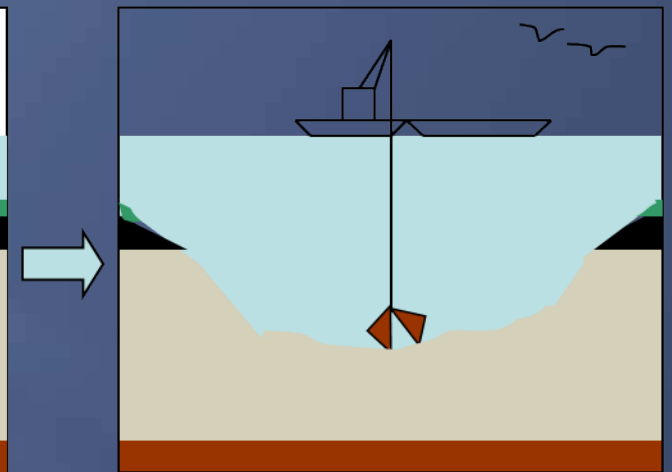
- ▣ EPA Superfund Remedy: EPA (federal) lead Lower Harbor CAD cell project to dredge and dispose of 300,000 cubic yards of sediment above the EPA cleanup level south of I-195, generally 50 ppm.
- ▣ State Enhanced Remedy: State-lead projects to dredge and dispose of sediment for maintenance of navigation in New Bedford Harbor. South Terminal Project being implemented by Massachusetts CEC is a component of this.



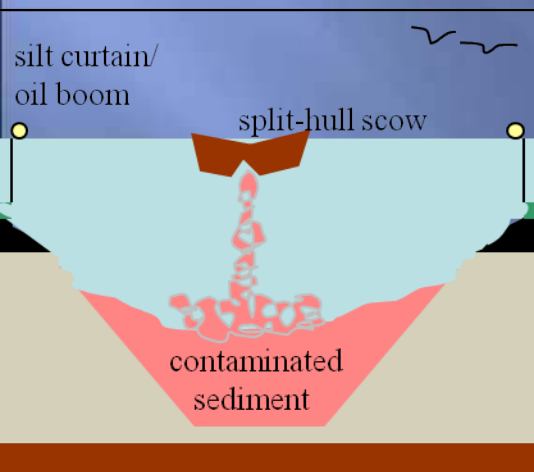
1. Harbor bottom as is



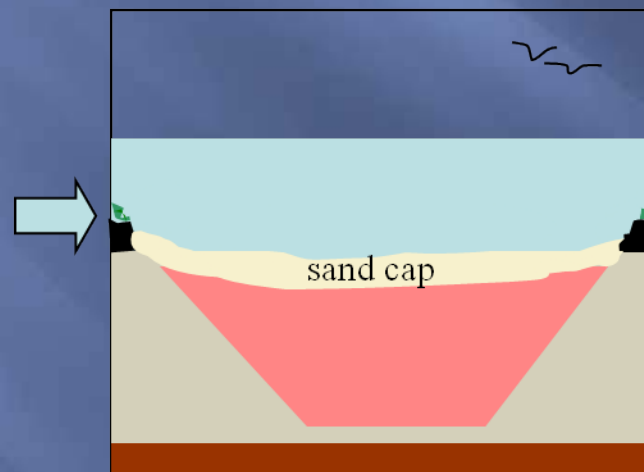
2. Excavation of top silts



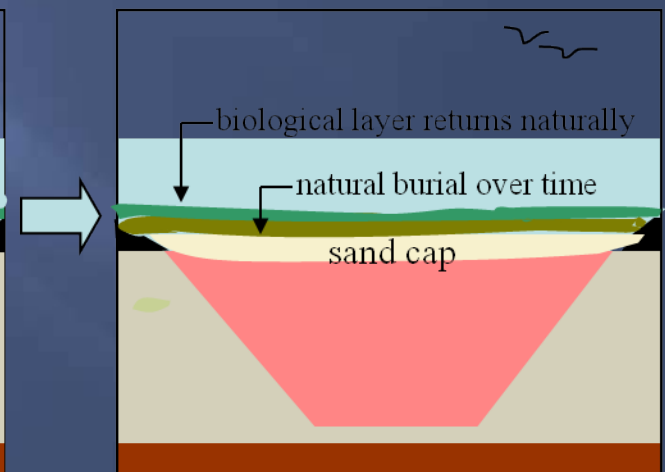
3. Excavation of clean sand



4. Placement of sediments



5. Placement of initial cap

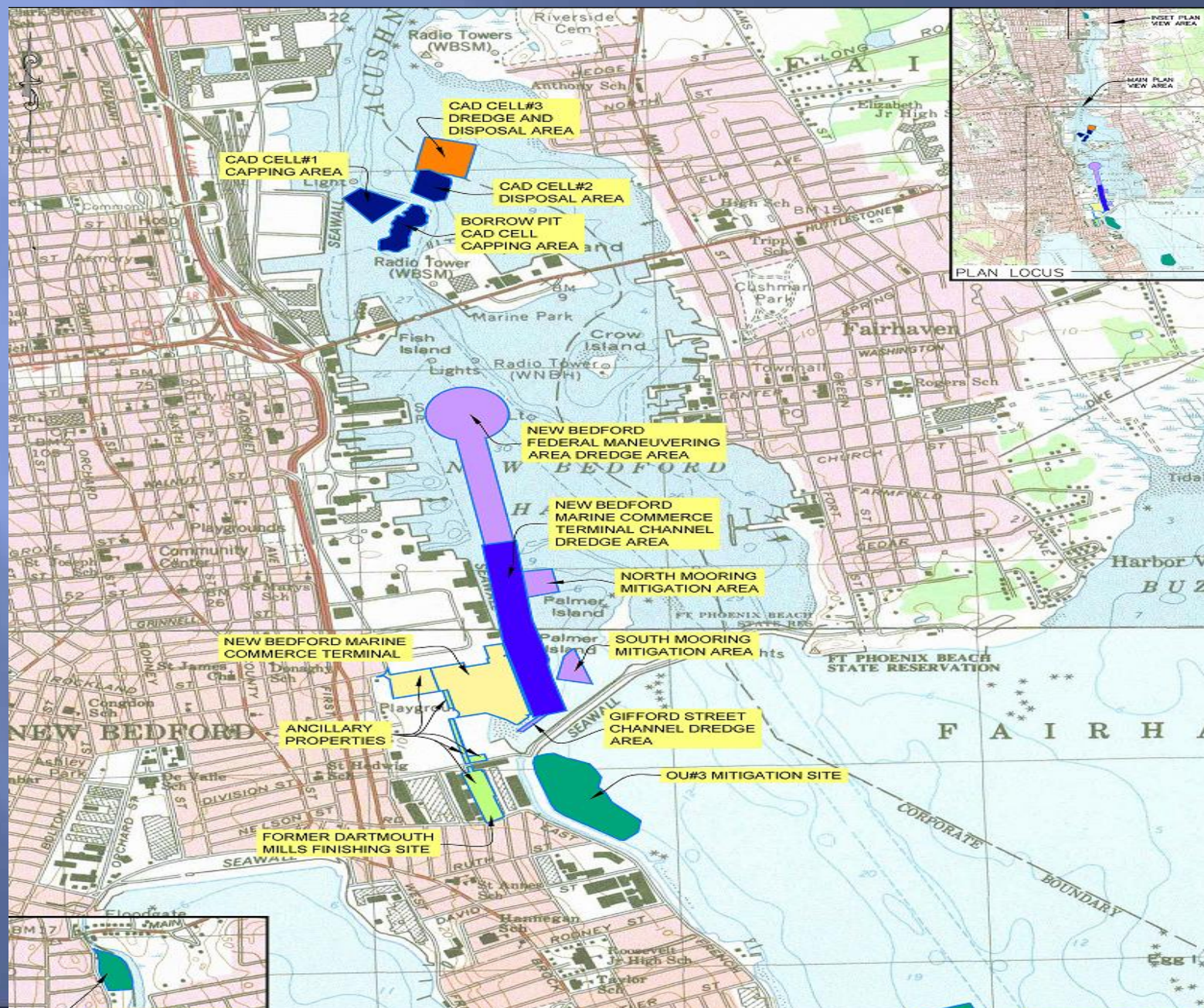


6. Surface fills in over time

What is a confined aquatic disposal cell?

State Enhanced Remedy

- ▣ Two navigational CAD cells, and a 'Borrow Pit' have been successfully built and filled by the since 2004 in order to remove sediments from navigational channels in the Harbor.
- ▣ A new CAD Cell, CAD 3, is currently under construction as part of the South Terminal project.



EPA Remedy

NOTE: red, orange and green denote sediment areas with (or formally with) PCB levels requiring cleanup.

North of Wood Street cleanup (2002-03)

Aerovox

RED areas: continue with current remedy

New Bedford

ORANGE areas: place in Superfund CAD cell

The Superfund CAD cell would be located between the Rt. 195 and Rt. 6 bridges

Three navigational CAD cells have been built to date

Rt 195

Rt. 6

Fairhaven

New Bedford Harbor

hurricane barrier

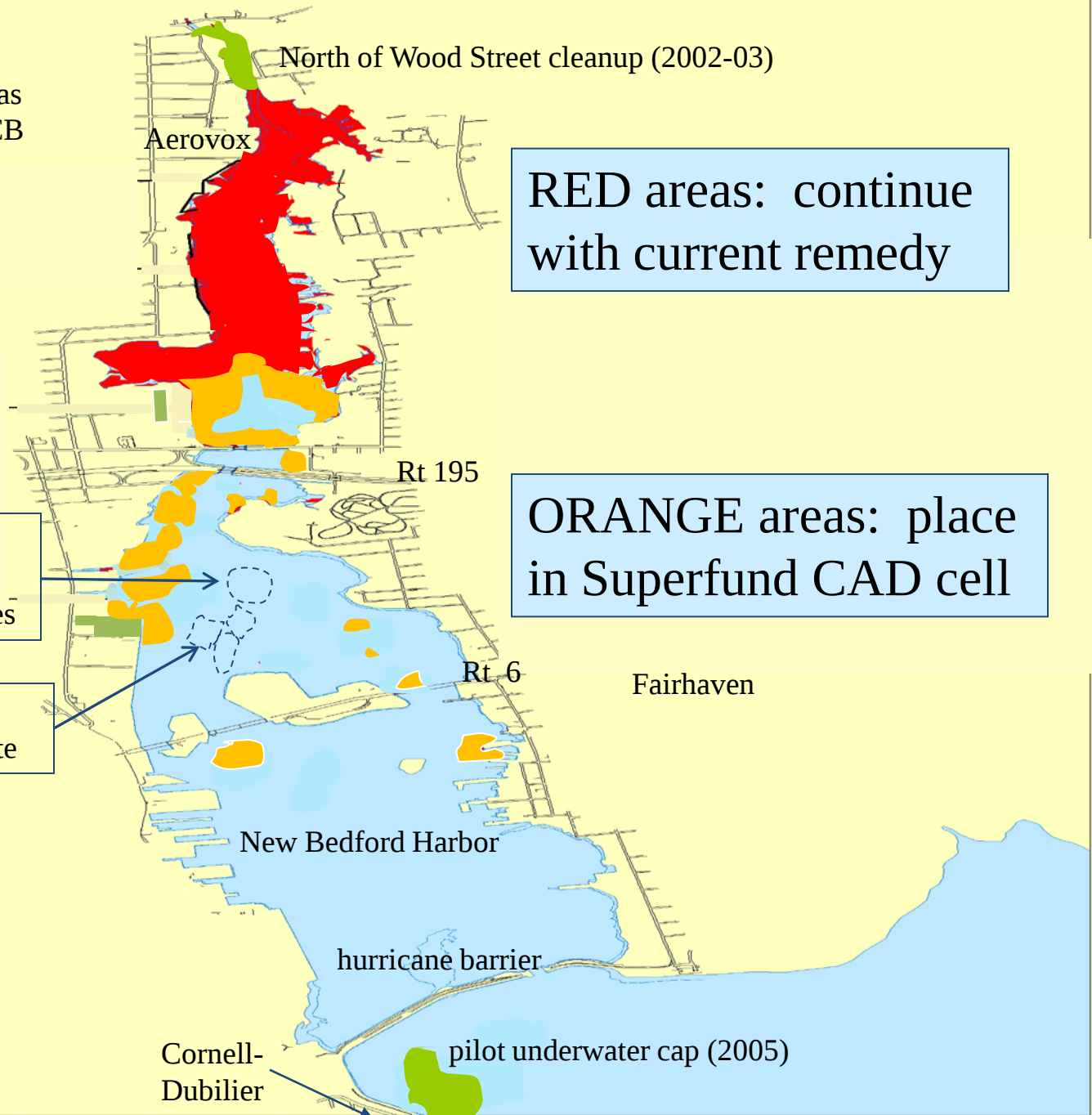
pilot underwater cap (2005)

Cornell-Dubilier

N

app. one mile

For illustration only, all areas are approximate





Managing the Construction of the Lower Harbor CAD Cell

EPA has signed a cooperative agreement with the Harbor Development Commission to design and oversee the construction of the Lower Harbor CAD cell, or 'LHCC'.

Lower Harbor CAD Cell Project

- ▣ Dredge 300,000 cubic yards of PCB contaminated sediment (mostly) from Lower Harbor;
- ▣ Contaminated at levels between 50 ppm and 190 ppm;
- ▣ Disposal in Confined Aquatic Disposal Cell (CAD) in Lower Harbor, allowed to consolidate.
- ▣ Three foot thick sand cap to cover consolidated material.

Status Lower Harbor CAD Cell

- ▣ The current contract is only for the construction of the cell, not its filling/capping.
- ▣ Plans and Specifications are out for bid by HDC.
- ▣ Bids are due soon.
- ▣ Construction start around late summer.
- ▣ After the LHCC is constructed, a follow on contract will complete dredging sediment, filling the LHCC, capping the LHCC.

Status Lower Harbor CAD Cell

- ▣ Work hours restricted under the contract to 7am-sunset, Monday through Saturday.
- ▣ Air monitoring to be conducted during dredging of top-of-CAD material.
- ▣ Water Quality monitoring to be conducted
- ▣ Construction of the LHCC should take approximately 9 months to complete.



Benefits to New Bedford Harbor of the Lower Harbor CAD Cell

- ▣ The Superfund cleanup of sediment (non-navigational) will be complete in the 80% of the Harbor comprising the lower harbor.
- ▣ Continued improvements in ecology measured in long-term monitoring.
- ▣ Potential for beneficial reuse of the clean CAD cell material.

Benefits to New Bedford Harbor of the Lower Harbor CAD Cell

- ▣ Lower flux of contaminated sediment to Buzzard's Bay, currently estimated at about 95 pounds per year.
- ▣ Modeling indicates that the project will have negligible impact on air quality during construction.