RETURN TO 1998 ROD AR INDEX

Superfund Records Center
Site: New Bedford Harbor
Break:
Other: 261219

SDMS DocID 261219

9/22/97 NB Harbor
Dredging Sub Committee

1/2
DAD

CZM / McQuire Presentation (Bob McQuire — 1PM)
- tech. info for NEPA analysis
- now at conc. of Phase 1 "inventory stage"
- Phase 2: sed samples, fisheries, etc.
  - NEPA & NEPA

* 1.7m cy unsuitable for open water disposal (see handout)

*- summary document due early Oct

Phase 2 = ~2 FYs (end July 99 ?)

COE Presentation / Talk
- 30' below MLW - orig. depth
  - 26.5' controlling depth
    - shoaling west of channel and along edge of outer channel

*- COE still needs to know problem areas
  - have talked w/ Capt. Taylor, but want to explore further

- "emergency" dred. vol could be considerably smaller, such that CDF interim cap vol. could be critical

2/2
DXD
NBH
9-22-97

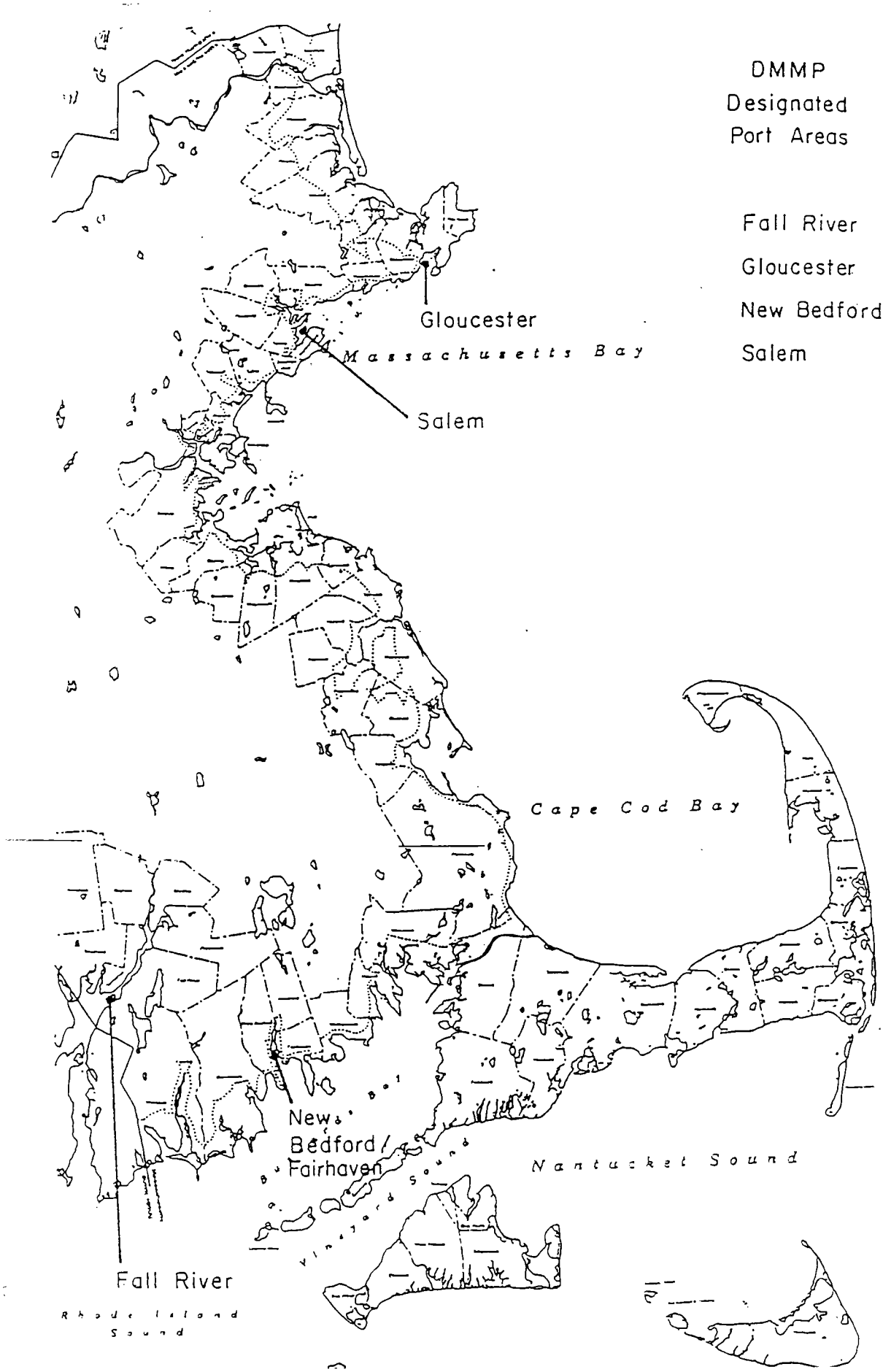
- COE expects City to collect data on lost ship traffic
  - Salem has good example

} Mark Hokel

Marty Manley - only 2 facilities use deep draft ships, State Pier & North Terminal

Capt. Taylor has already done this (but he had to leave mtg. earlier)

Carl B: COE would be able to break bits & pieces of project off as disp. not becomes avail.



MAGUIRE GROUP

Massachusetts Office of Coastal Zone Management

DREDGED MATERIAL MANAGEMENT PLAN
PHASE I

- IDENTIFY DREDGING NEEDS IN SALEM, GLOUCESTER, NEW BEDFORD AND FALL RIVER FOR THE PURPOSE OF DETERMINING NECESSARY DISPOSAL CAPACITY

- IDENTIFY ALTERNATIVES FOR DREDGED MATERIAL DISPOSAL

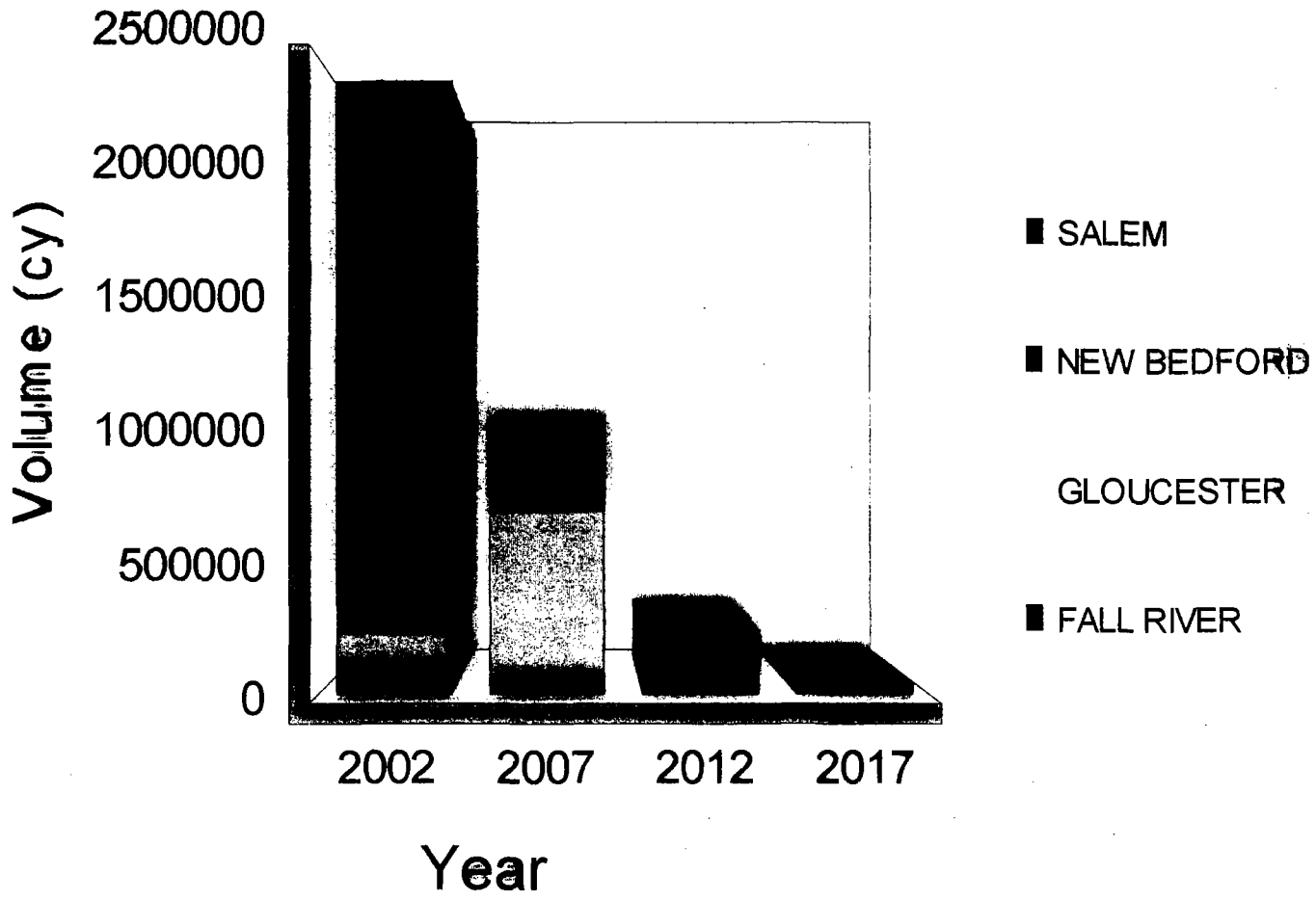
- FOCUS EFFORTS ON DISPOSAL OPTIONS FOR POOR QUALITY SEDIMENTS

- SET STAGE FOR DETAILED MEPA/NEPA DOCUMENTS FOR EACH DPA

DREDGED MATERIAL MANAGEMENT PLAN
PHASE I TASKS

- DATA MANAGEMENT
- DREDGING INVENTORY*
- BATHYMETRIC SURVEYS*
- ALT. TREATMENT TECHNOLOGIES
- DUE DILIGENCE* (HISTORIC POLLUTION SOURCES)
- SAMPLING AND TESTING PLANS
- PREL. GEOTECHNICAL INVESTIGATIONS*
- NATURAL RESOURCE INVENTORY*
- UPLAND DISPOSAL SITE ANALYSIS
- ALTERNATIVE AQUATIC SITING*
- BBDS INVESTIGATION
- DEVELOP DRAFT DREDGING AND DISPOSAL REGULATIONS

DPA Dredge Volume Projections



NEW BEDFORD FACTS

- FEDERAL CHANNEL HAS NOT BEEN DREDGED IN SEVERAL DECADES

- INNER HARBOR PCB-LADEN SEDIMENTS TO BE DISPOSED OF IN 4 CDFs AS PART OF SUPERFUND PROGRAM

- 93% (1,700,000 CY) OF SEDIMENT IS OF POOR QUALITY

- 22 MUNICIPAL/PRIVATE PROJECTS PLANNED OVER NEXT 20 YEARS (340,000 CY)

DISPOSAL ALTERNATIVES FOR POOR QUALITY SEDIMENT

- LANDFILL - $74/CY

- CONFINED DISPOSAL FACILITY (CDF) $50/CY

450,000 cy => ~$300/cy Superfund

- CONTAINED AQUATIC DISPOSAL (CAD) SITE - $ 24/CY

- IN-CHANNEL - $30/CY

- TIDAL HABITAT CREATION - $142/CY

- TREATMENT AND REUSE - $160/CY

(AS COMPARED WITH MBDS - $8/CY)

UPLAND DISPOSAL

- COMPREHENSIVE STUDIES FOR BOSTON HARBOR AND OTHERS HAVE CONCLUDED THAT LANDFILLING CAPACITY IS NOT AVAILABLE

- POOR QUALITY MARINE SEDIMENT IS USUALLY NOT DESIRED BY LANDFILLS

- EXISTING LANDFILL SPACE IS VERY LIMITED

- LANDFILLING IS RELATIVELY EXPENSIVE - $74/CY

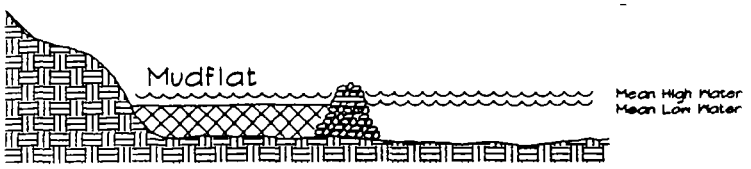
- SITING NEW LANDFILL OF ANY KIND IS UNLIKELY

AQUATIC DISPOSAL SITING PROCESS

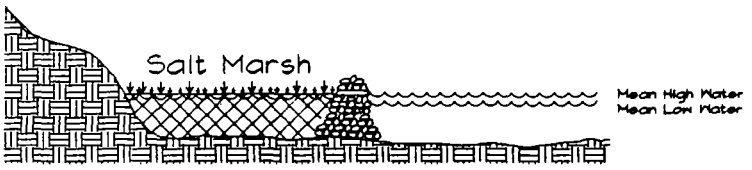
CHARACTERISTICS OF IDEAL SITE

- *WITHIN MUNICIPAL BOUDARIES*
- *CAPABLE OF GOOD CONTAINMENT*
- *WITHIN DEGRADED WATERS AND SUBSTRATES*
- *EASILY ACCESSED*
- *UNDER PUBLIC OWNERSHIP*
- *SUFFICIENT SIZE/CAPACITY*
- *COMPATIBLE WITH EXISTING LAND/MARINE USE*
- *AVOIDS IMPORTANT NATURAL RESOURCES*

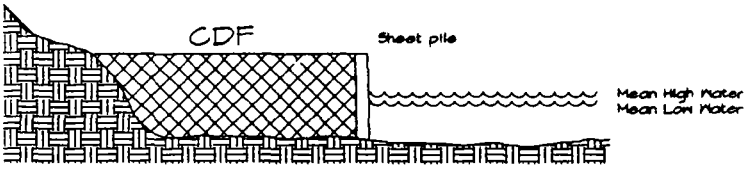
Tidal Habitat Creation
Coastal Mudflat



Tidal Habitat Creation
Coastal Wetland



Confined Disposal Facility (CDF) - Port Expansion

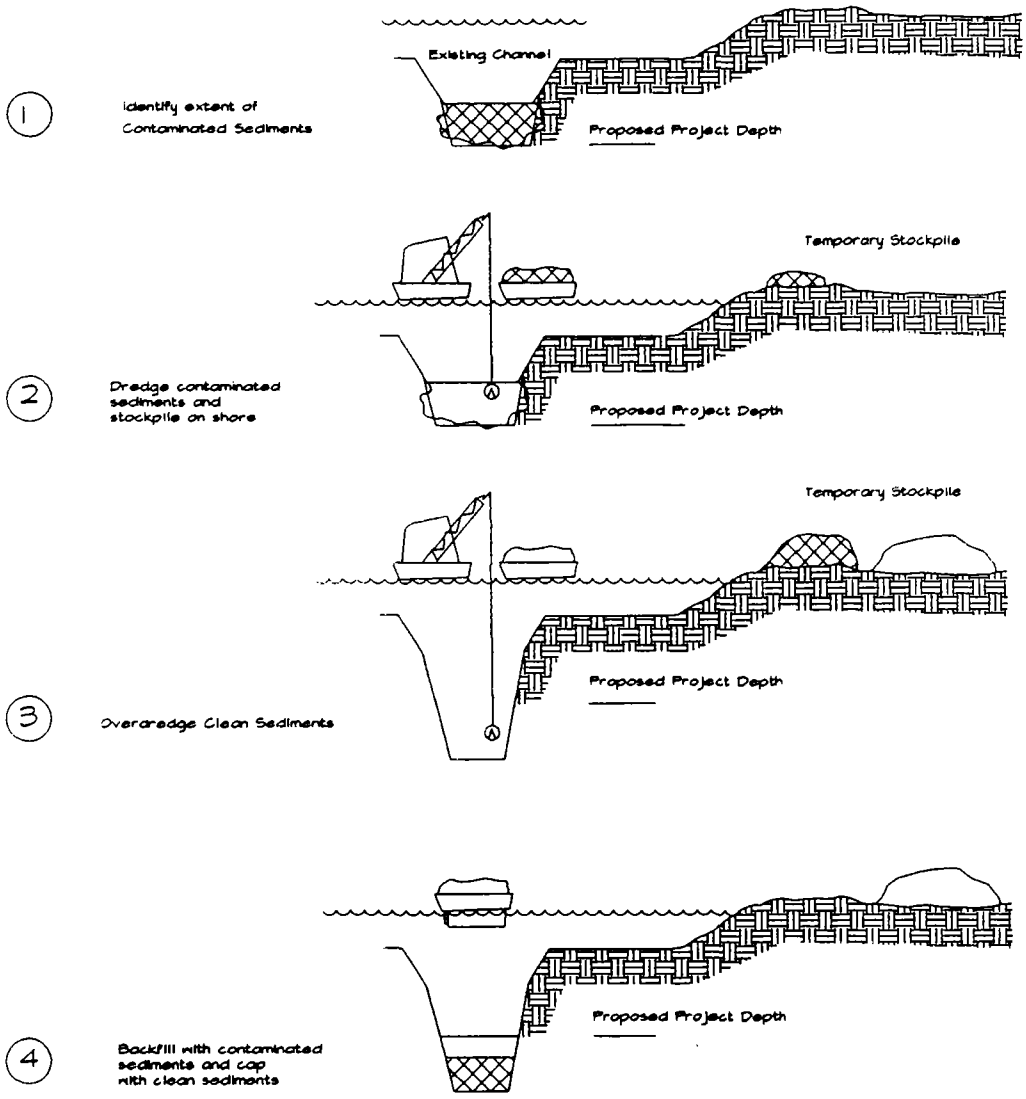


Confined Disposal Facility (CDF) - Land Creation

Figure 2 - Tidal Habitat Creation and CDF Alternatives

Not to Scale

Channel Overdredge



Contained Aqueous Disposal (CAD)

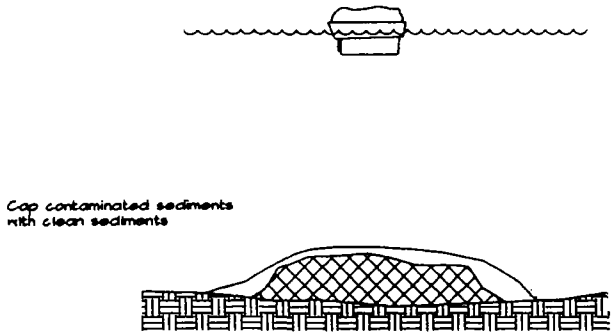
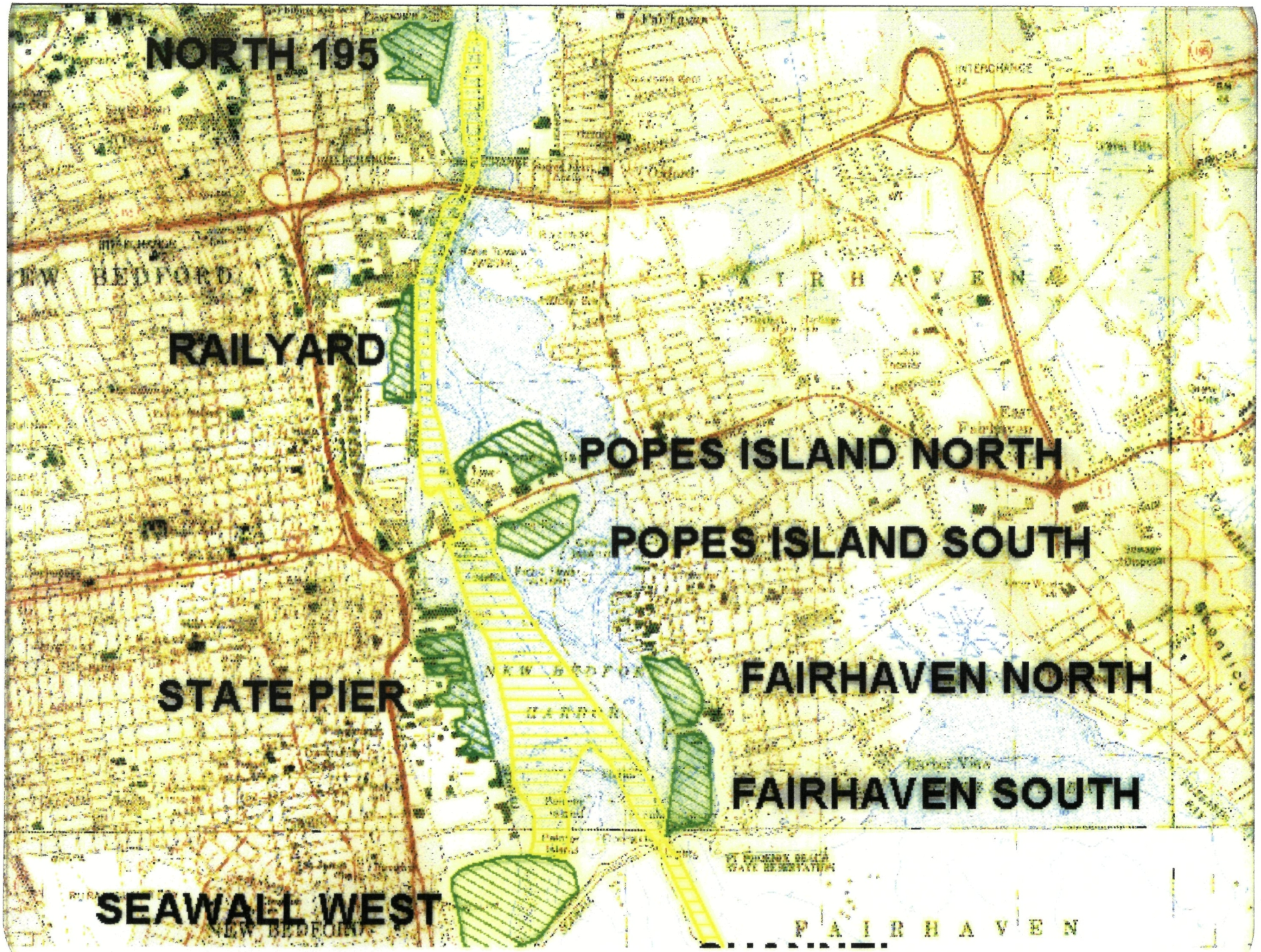


Figure 1 - Channel Overdredge and CAD Alternatives

Not to Scale


NORTH 195
RAILYARD
POPES ISLAND NORTH
POPES ISLAND SOUTH
STATE PIER
FAIRHAVEN NORTH
FAIRHAVEN SOUTH
SEAWALL WEST
NEW BEDFORD
FAIRHAVEN

NEXT STEPS

- SEDIMENT SAMPLING

- EIR/EIS

  ALTERNATIVES ANALYSIS
  SOCIOECONOMIC, ENVIRONMENTAL BENEFITS/COSTS FOR UPLAND, AQUATIC AND ALT. TECHNOLOGY OPTIONS

  ADDITIONAL STUDIES NEEDED

  FISHERIES

  SUBSURFACE CONDITIONS

  PHYSICAL OCEANOGRAPHY

- PERMITS

- DREDGING AND DISPOSAL SITE CONSTRUCTION