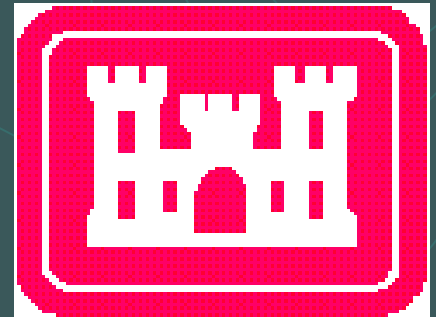


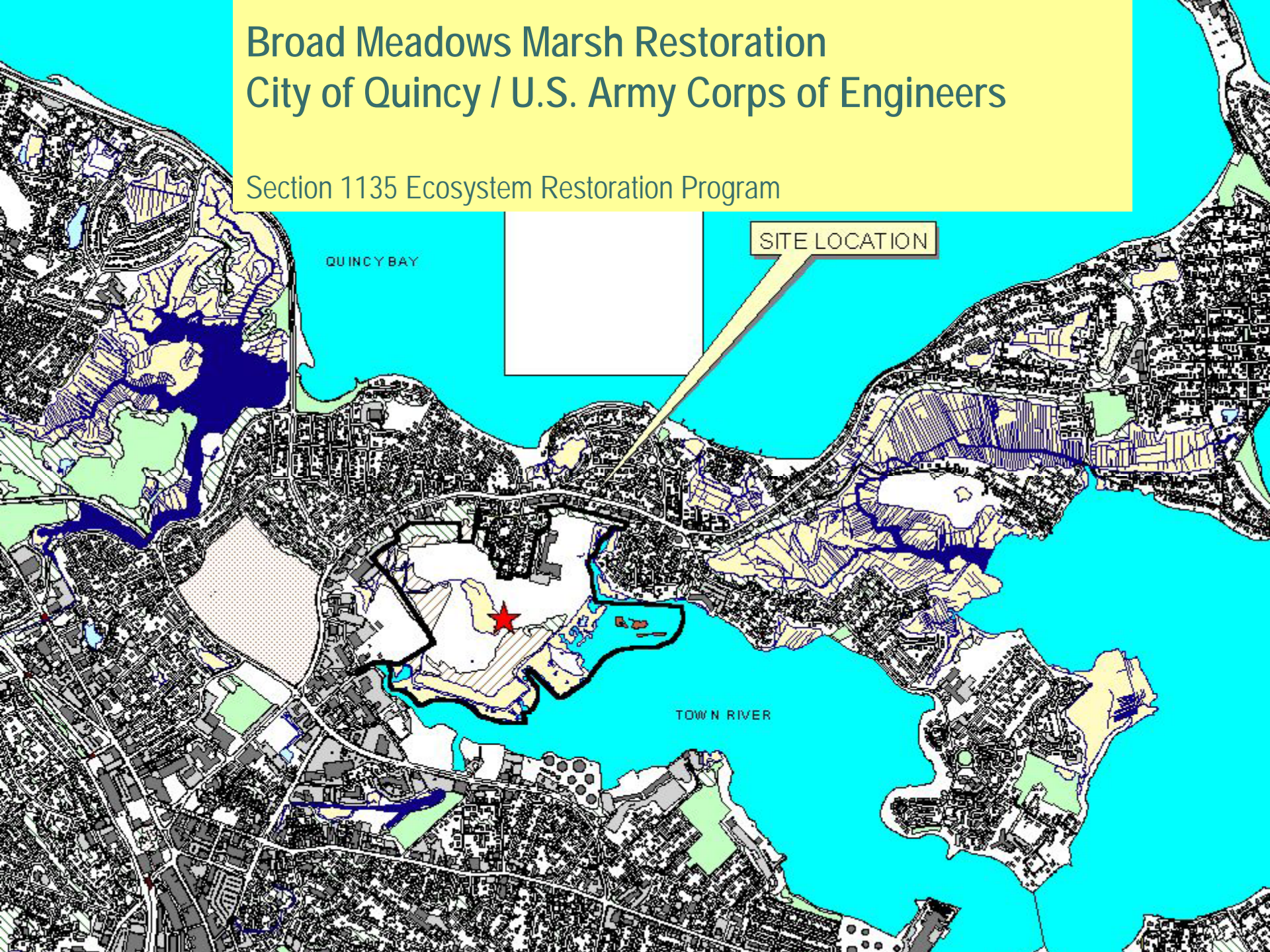
# Broad Meadows Marsh Quincy, Massachusetts

## Salt Marsh Restoration



# Broad Meadows Marsh Restoration City of Quincy / U.S. Army Corps of Engineers

Section 1135 Ecosystem Restoration Program







Town River

Looking South

Looking West



DPW

National Guard

Broadmeadows  
Middle School

# *Phragmites*



- Isolated from estuarine habitat
- Production *not* exported to estuarine food web
- Low value for fish and wildlife
- Potential fire hazard
- Difficult mosquito control

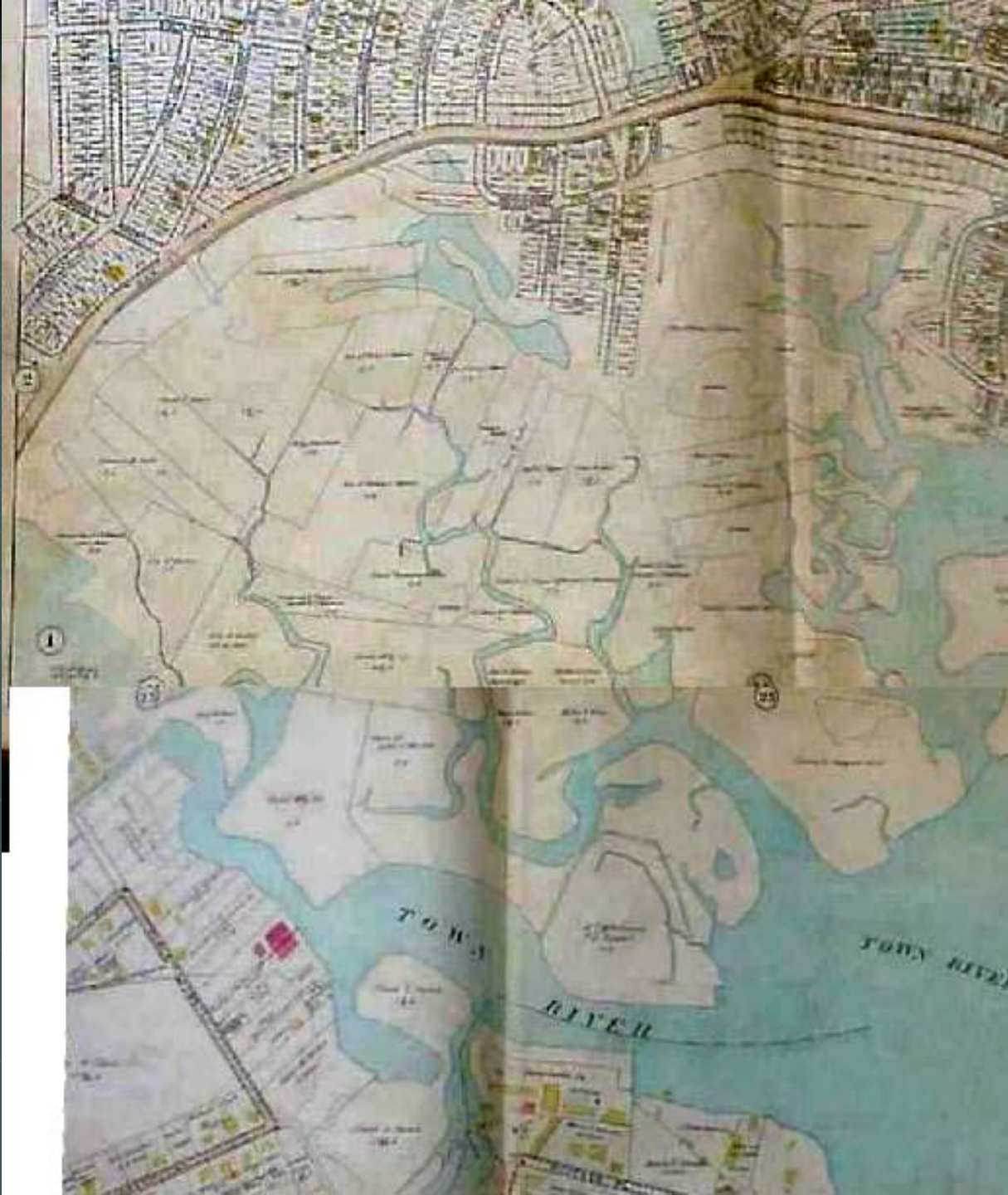


# Salt Marsh



- Estuarine habitat
- Production exported to estuarine food web
- Nursery area for juvenile fish
- Waterfowl and water bird habitat

# 1927 City of Quincy Atlas





# Marshin / Marsh-Haying

early 20<sup>th</sup> Century





Broadmeadows Marsh  
late 1930's





 Project Boundary

Figure 3: Aerial Photo of Study Area

Broad Meadows Marsh Restoration Project  
Quincy, MA  
Detailed Project Report  
March 2003



600

0

600 Feet





# Broadmeadow Marsh Quincy, Massachusetts

January 17, 2002

## Legend

### Marsh Type

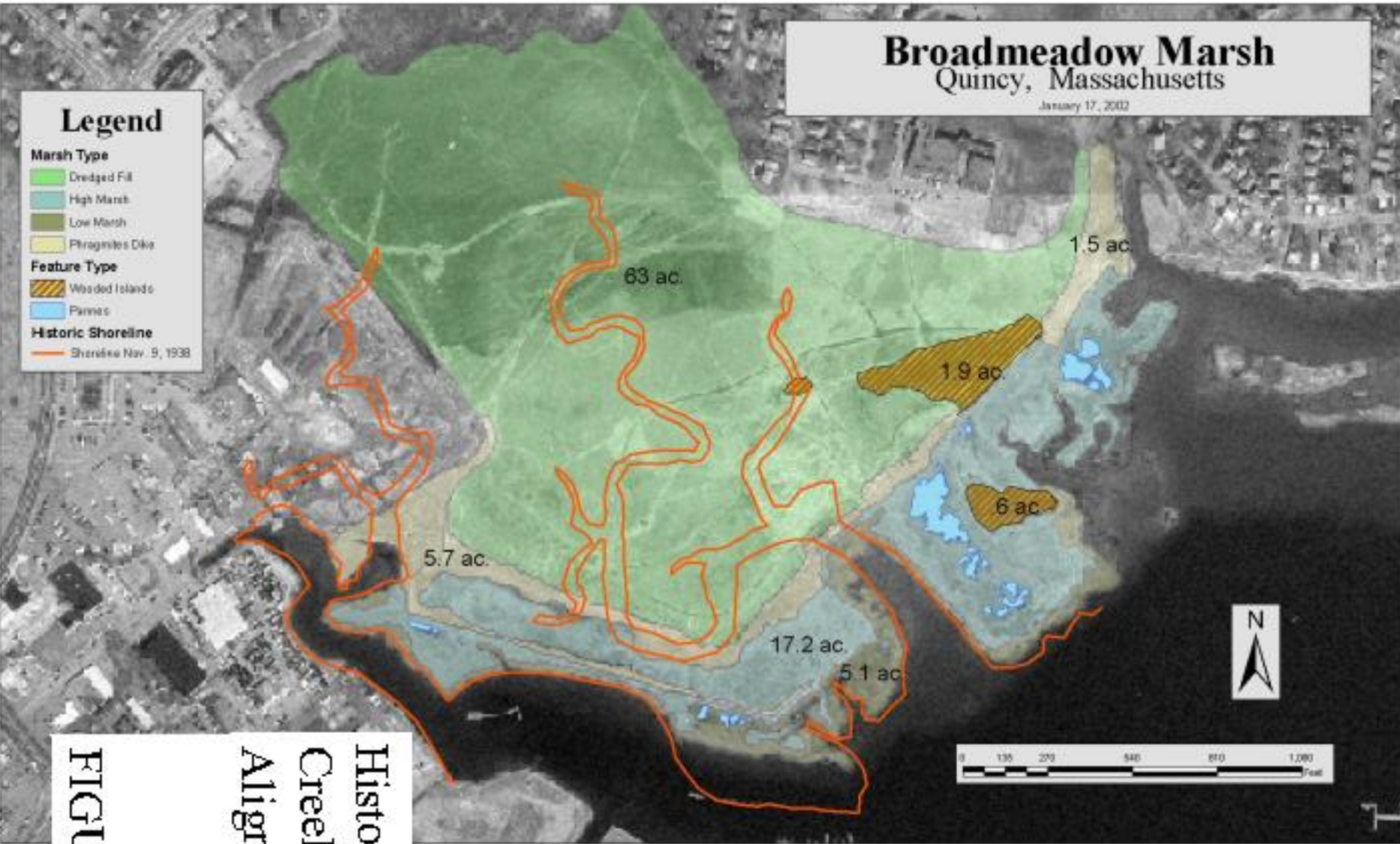
- Dredged Fill
- High Marsh
- Low Marsh
- Phragmites Dike

### Feature Type

- Wooded Islands
- Pannes

### Historic Shoreline

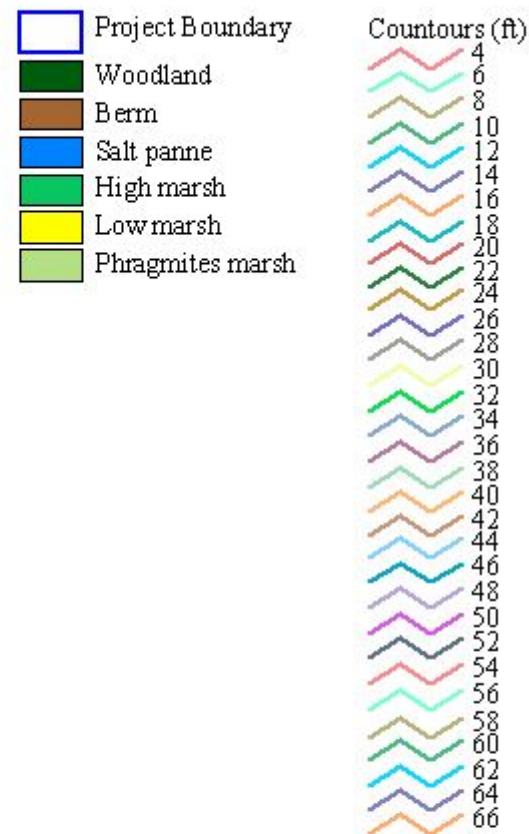
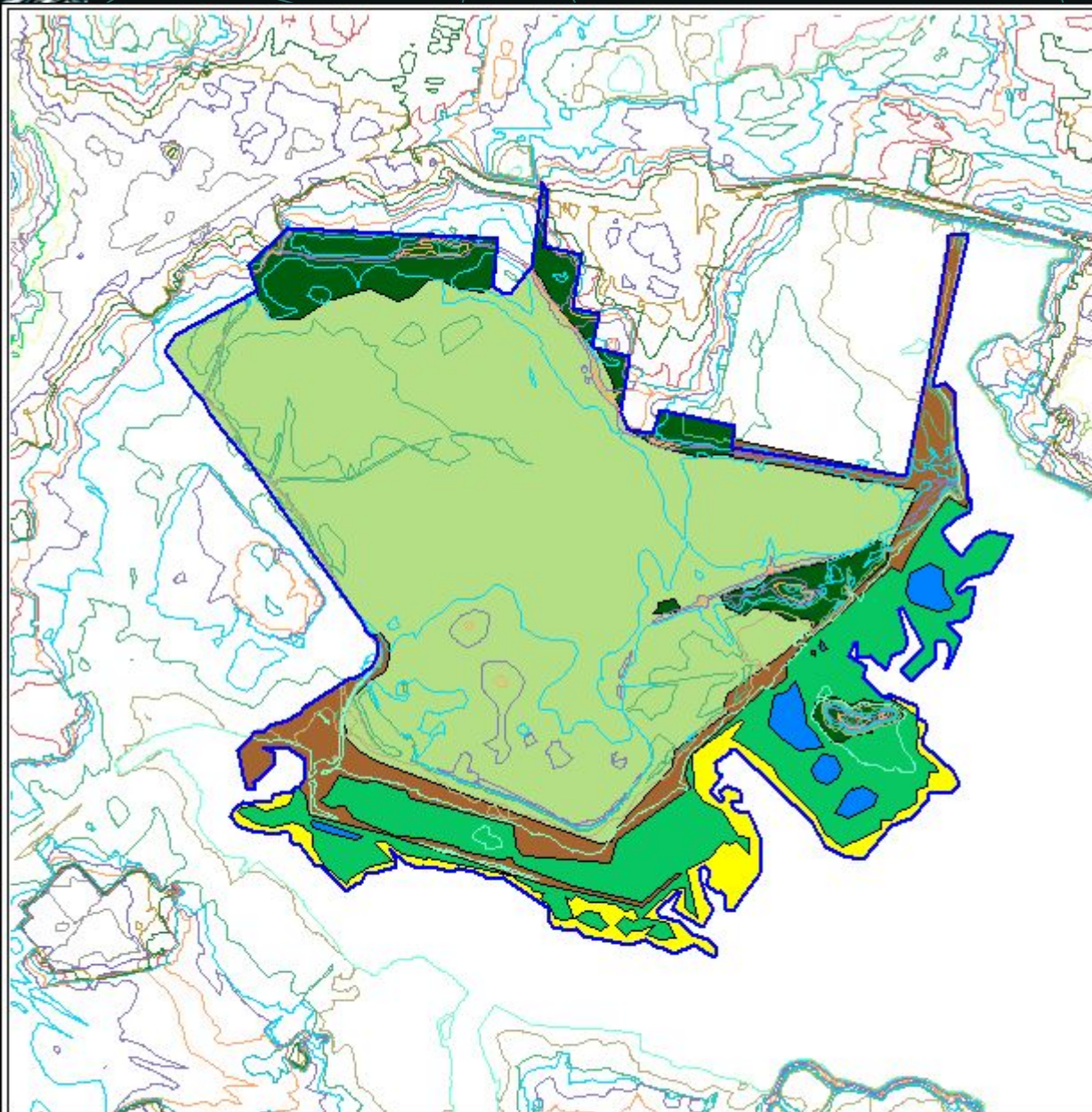
- Shoreline Nov. 9, 1938



Historical  
Creek  
Alignment

FIGURE 4





**Figure 5: Existing Conditions**

Broad Meadows Marsh Restoration Project  
Quincy, MA  
Detailed Project Report  
March 2003





-  Project Boundary
-  Fill north area
-  New high marsh
-  Berm to high marsh
-  Fill at school
-  5 ft school berm
-  Woodland
-  Berm remaining
-  Salt panne
-  High marsh
-  Low marsh

**Figure 6: Alternative C-4**

For channel layout see Figure 4

Broad Meadows Marsh Restoration Project  
Quincy, MA  
Detailed Project Report  
March 2003







# Construction

A vertical strip on the left side of the slide shows a topographic map of a marsh area. It features contour lines, a yellow line indicating a path or boundary, and various symbols representing marsh features. The map is partially obscured by the text on the right.

# Construction Sequence

- Approx. 6 to 10 feet of material will need to be removed to restore the marsh
- Perimeter berm will be left in place until all the material landward is removed
- Remaining berm will then be removed during low tide

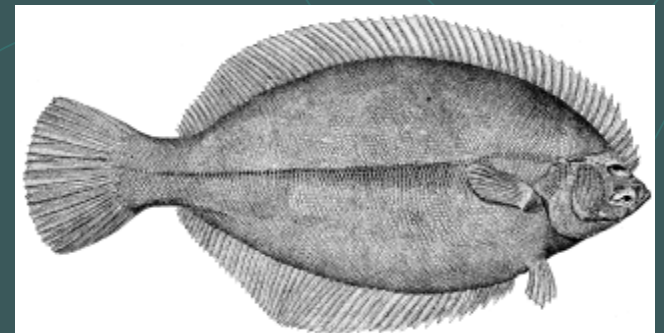


# Construction



# Project Effects

- Existing vegetation will be replaced with suitable native salt marsh species e.g. saltwort (*Salicornia* sp.), salt meadow grass (*Spartina patens*)
- New channels during low tide will be fully drained
- Low marsh areas will be submerged during high tide
- Tidal ponds to be added





# *Salicornia* Colonization Salt Marsh





# Partially Restored Salt Marsh





# Restored Vegetation



# Project Benefits

## ■ Fish Habitat

- Promote Protection, Conservation and Enhancement

## ■ Restore

- 35-38 acres of salt marsh
- 8 acres of low marsh
- 8 acres of intertidal habitat



Photo by Jim Zingo



# Project Benefits

- Approx. 35 acres of the northern marsh would be classified as upland (non-wetland)
- Mosquito population reduced
- Fire hazard reduced

