



Squibnocket Committee

Review of Existing Conditions

Friends of Squibnocket August 26, 2014

Agenda

- Basic Beach Dimensions & Attributes
- High Level Resources Mapping & WPA
- Mapping of Target Area
- Wetlands Delineation
- Estimate of Shoreline Without Revetments
- Dune Ridge Solution
- Alternative Solutions Perspective



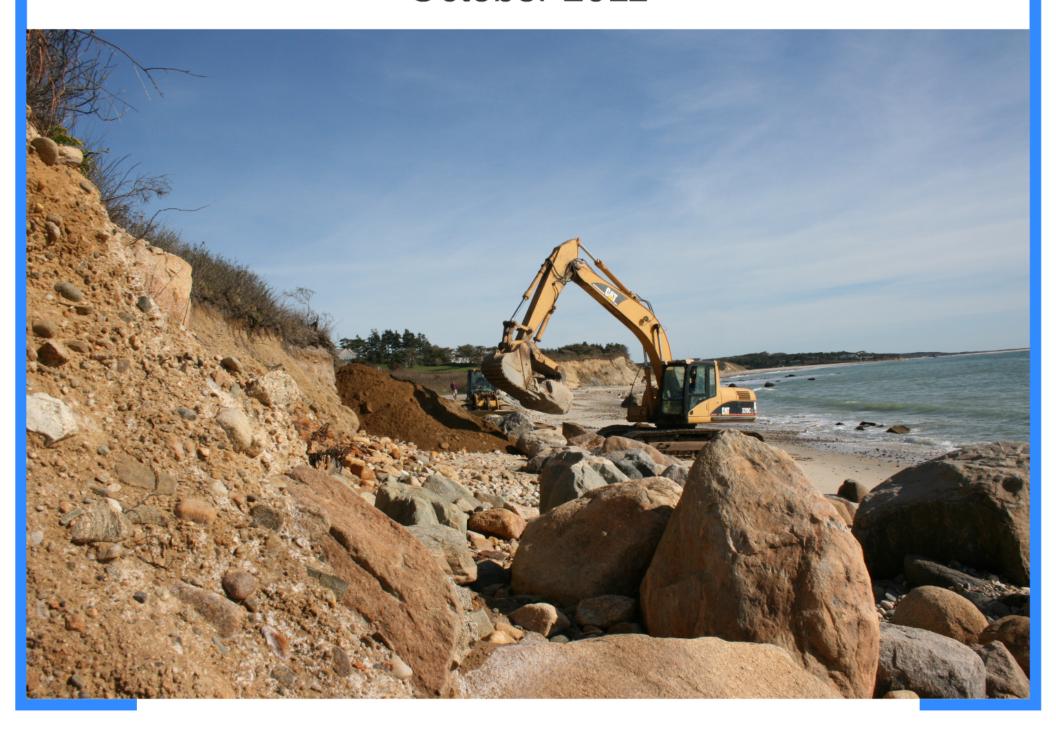




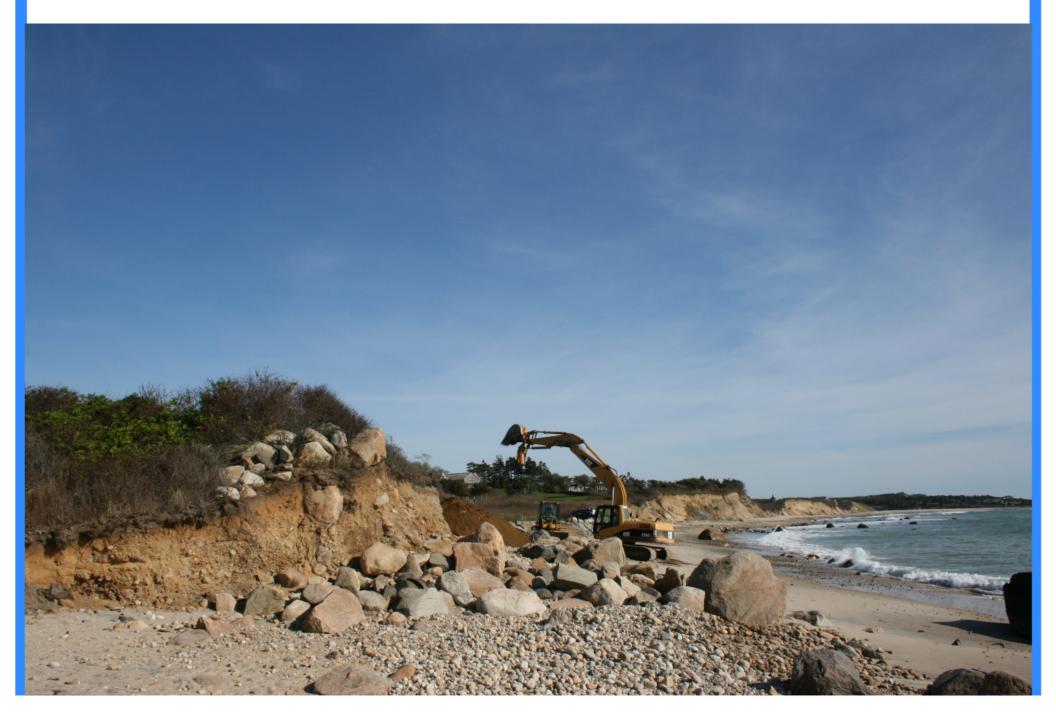




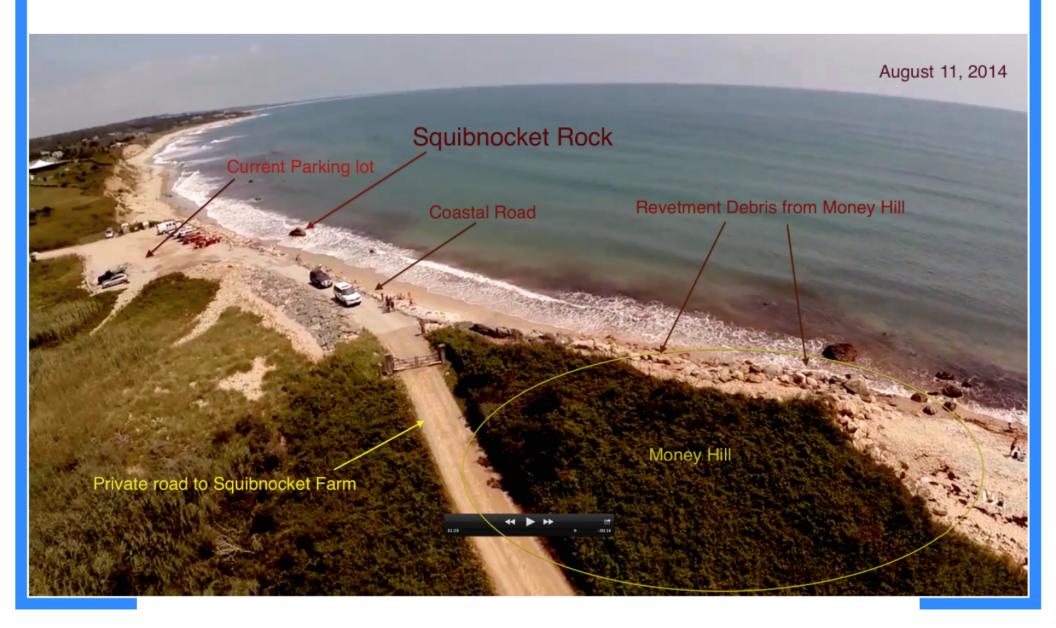
October 2011



October 2011



Access: Causeway and Money Hill



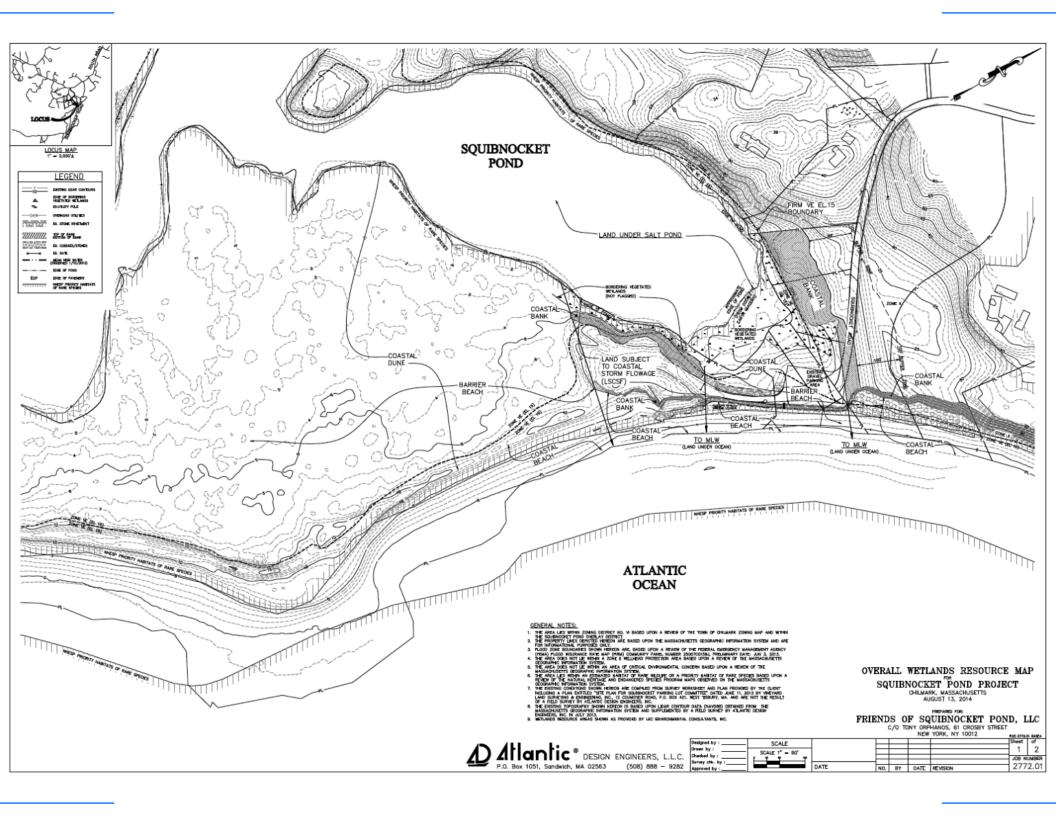
Money Hill -- 2014



Topographical Analysis

- History of terrain
- Overview of Natural Resources & WPA
- Base map & wetlands delineation
- Shoreline after revetments 'Zero Years'



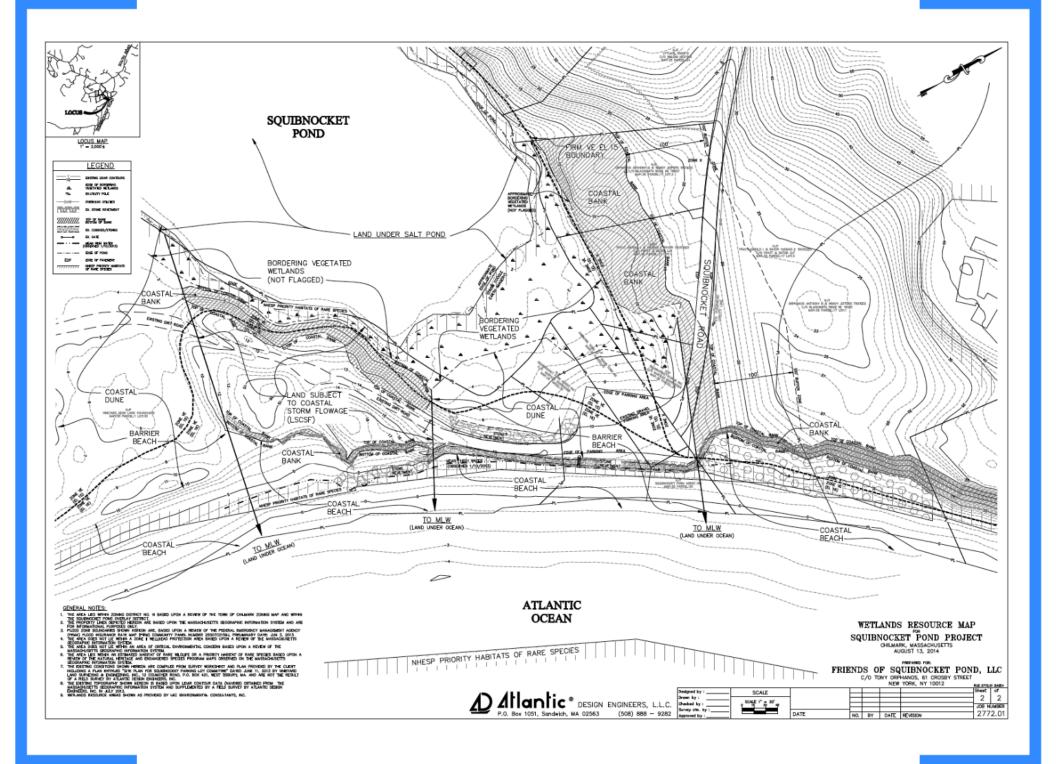


Wetlands Protection Act (WPA)

- Barrier beaches:
 - Storm damage prevention
 - Flood control
 - Protection of wildlife habitat & pond
- Coastal dunes additional functions:
 - Source of sand for coastal beaches
 - Protection from waves by shape
 - Vegetative cover provides sand deposition

Wetlands Protection Act (WPA)

- Regulations are very restrictive: 'high bar'
- Permitted on Barrier Beach/Coastal Dune
 - Pedestrian walkways
 - Planting native vegetative cover
 - Fencing for sand deposition
 - Existing roadway
- Restrictions also tight for Coastal Banks
 - If they provide sediment to beaches

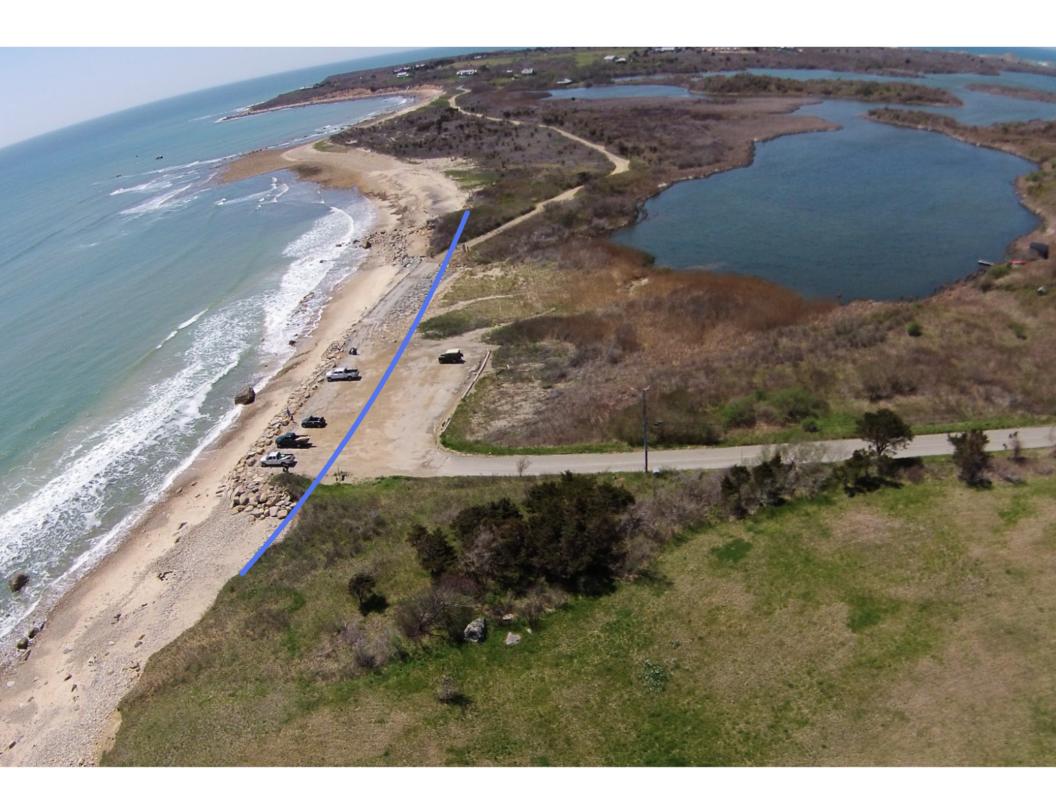


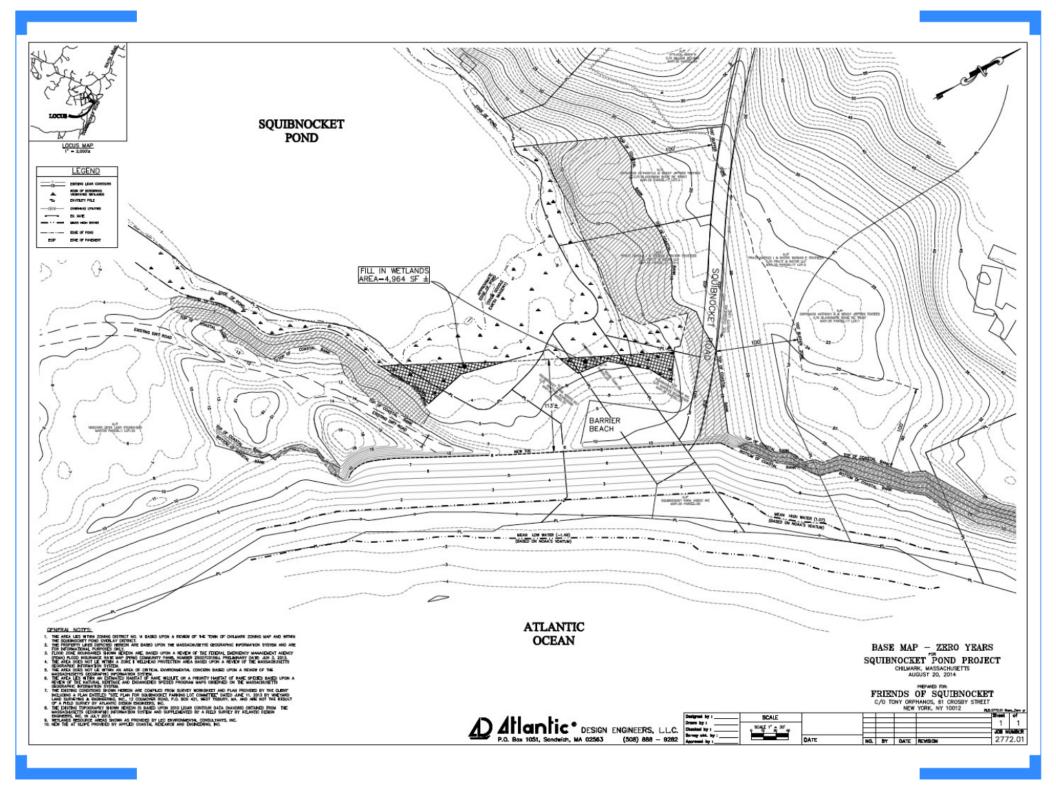
Wetlands Delineation

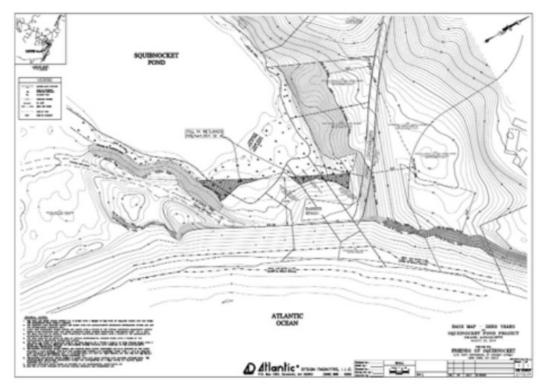
- Bordering Vegetated Wetlands (BVW)
 - Added 9 new flags (Weldon & Jeffers)
 - Validated remaining flags
 - Surveyed all flags
- Non-surveyed resources have been mapped
 - Coastal Dune, Barrier Beach, etc
- Recommend submission to ConCom (RDA)

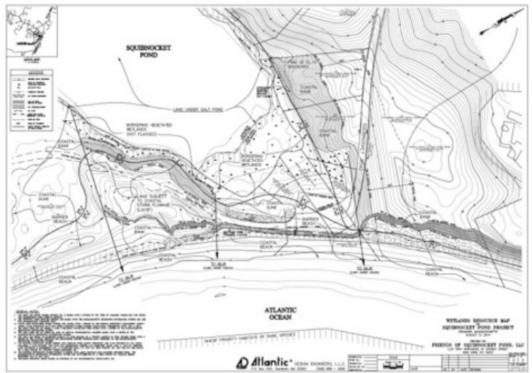
Shoreline without Revetments

- Base map 'Zero Years'
 - After shoreline naturalizes
- Determined by:
 - Aerial photos
 - Top of banks & high water mark
- Used as point of departure
 - Apply erosion factors
 - 25 & 50 year projections









Remaining Tasks - Dune Ridge

- Complete analytic data gathering
 - Erosion projections
 - Nearshore wave & water level assessment
- Design
 - Dune ridge & parking alternatives
- Sustainability
 - Dune ridge & road
 - Parking

Alternatives Perspective

- Access sustainability & rural character
 - Dune Ridge/Road Solution
 - Squibnocket Farm Bridge
 - Bridge over another area of pond
- Parking Committee needs to decide which alternative is most desirable
 - Discussion & negotiations follow
- Other requirements....