



Going Green Living Shorelines Maine

Using a Instability Rating and Decision Tree
For Living Shoreline & Stabilization Alternatives

Living Shoreline Example

- Rootwads & Woody Planting
- Vegetation Dissipation



ERODED CONDITON



ROCK REVETENT ATTEMPT



3 MONTHS - LOW TIDE



SCOUR HOLE HABITAT



ROOTWAD – WOODY WILLOW



ROCK & WILLOW LIFTS



3 MONTHS COMPLETION

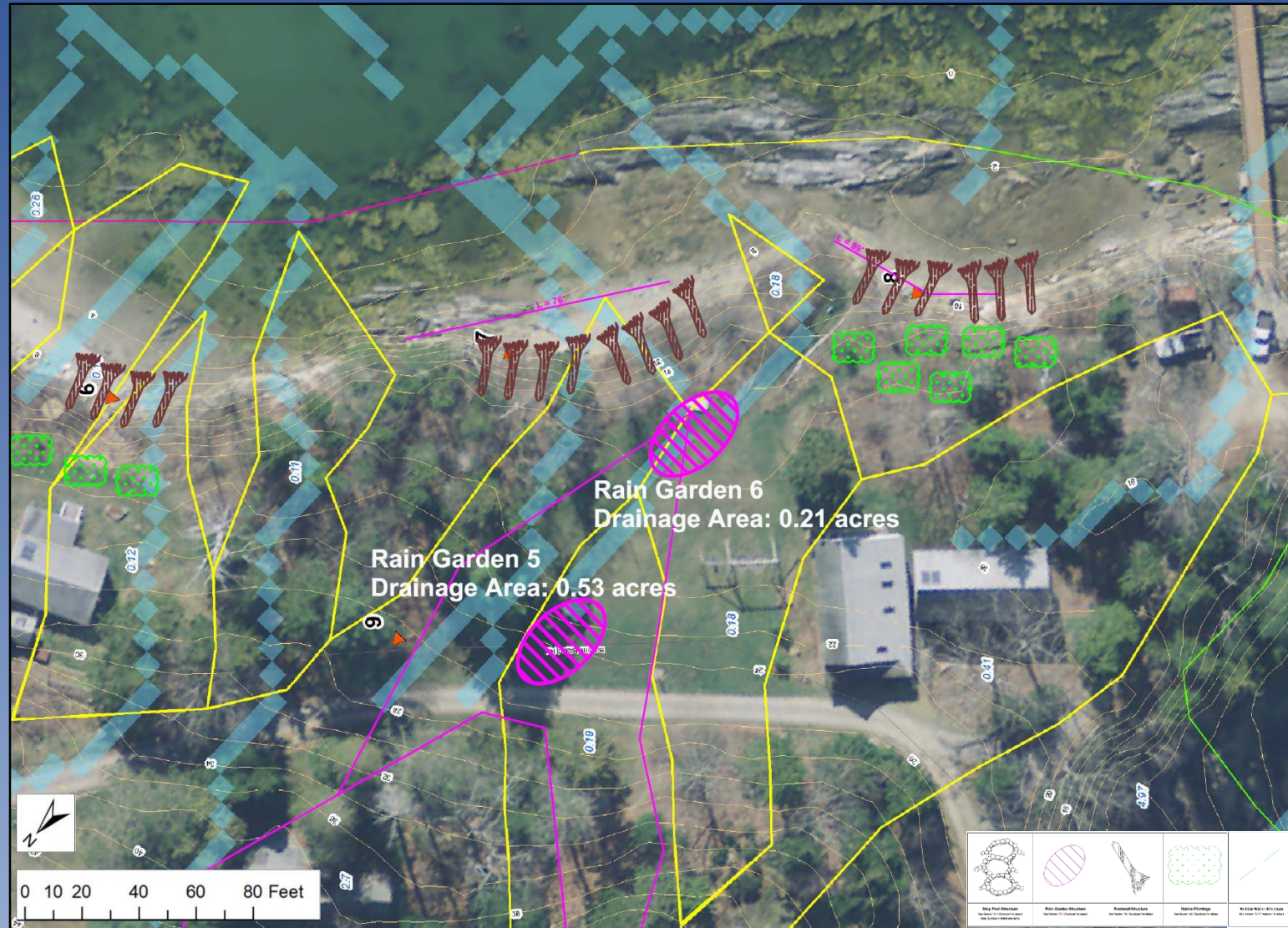
Bustins Island Natural “Case Study” Vegetation vs. Riprap



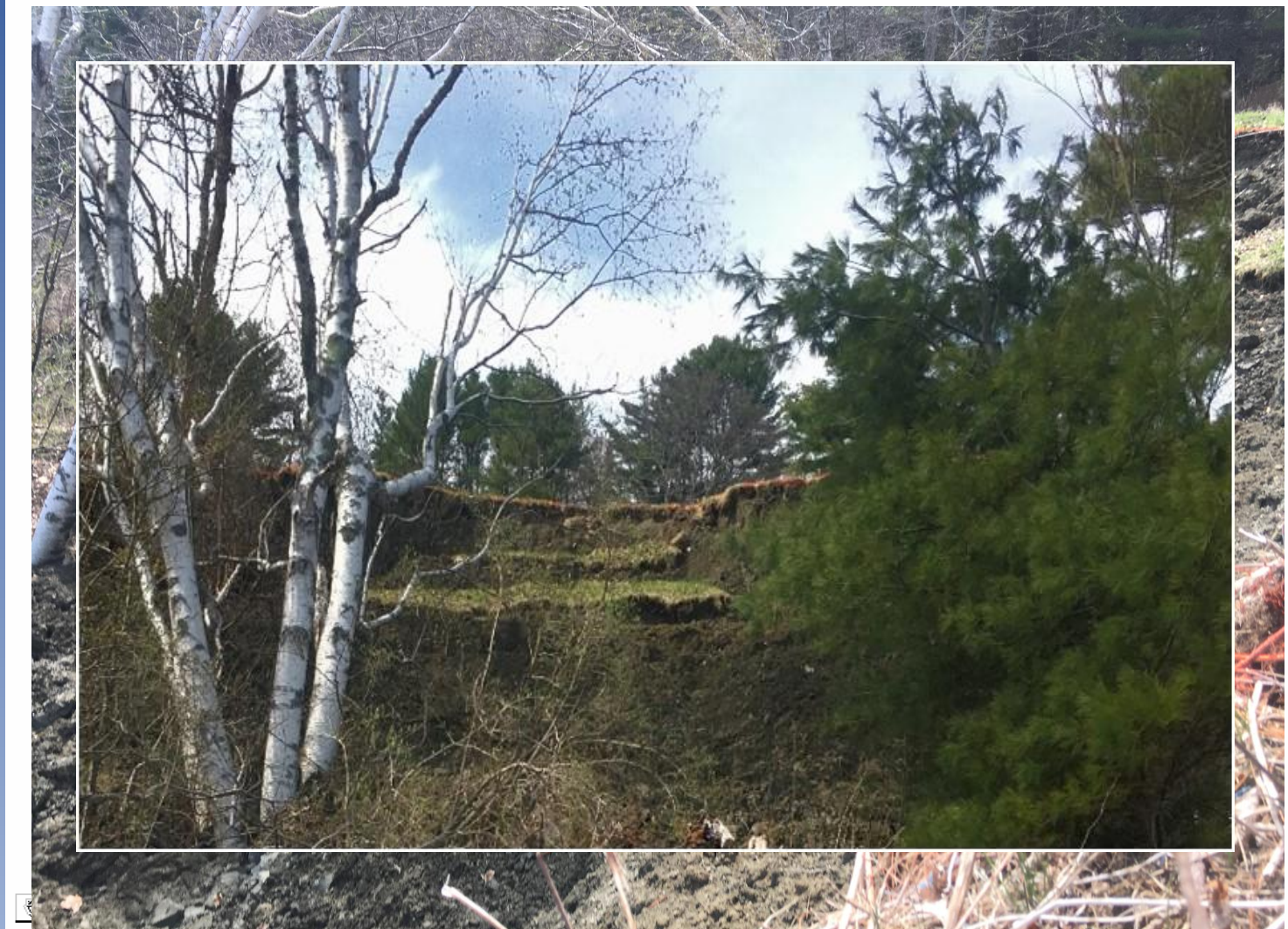
**Living shoreline
with vegetation**

Hardened shoreline

Conceptual DLA on Bustins Island



Complex Coastal Processes



Key Physical Parameters:

- Coastal Geomorphology
- Wind/Fetch
- Waves
- Tides
- Hydrology
- Upland groundwater
- Vegetation-slope stability
- Soils – horizons/type
- Wood Debris - sediment

Human Activities:

- Infrastructure
- Watershed Changes
- Upland Drainage Patterns
- Upland Vegetation Changes

Rootwad Installation – Bank Habitat



Rootwad Installation – Bank Habitat

