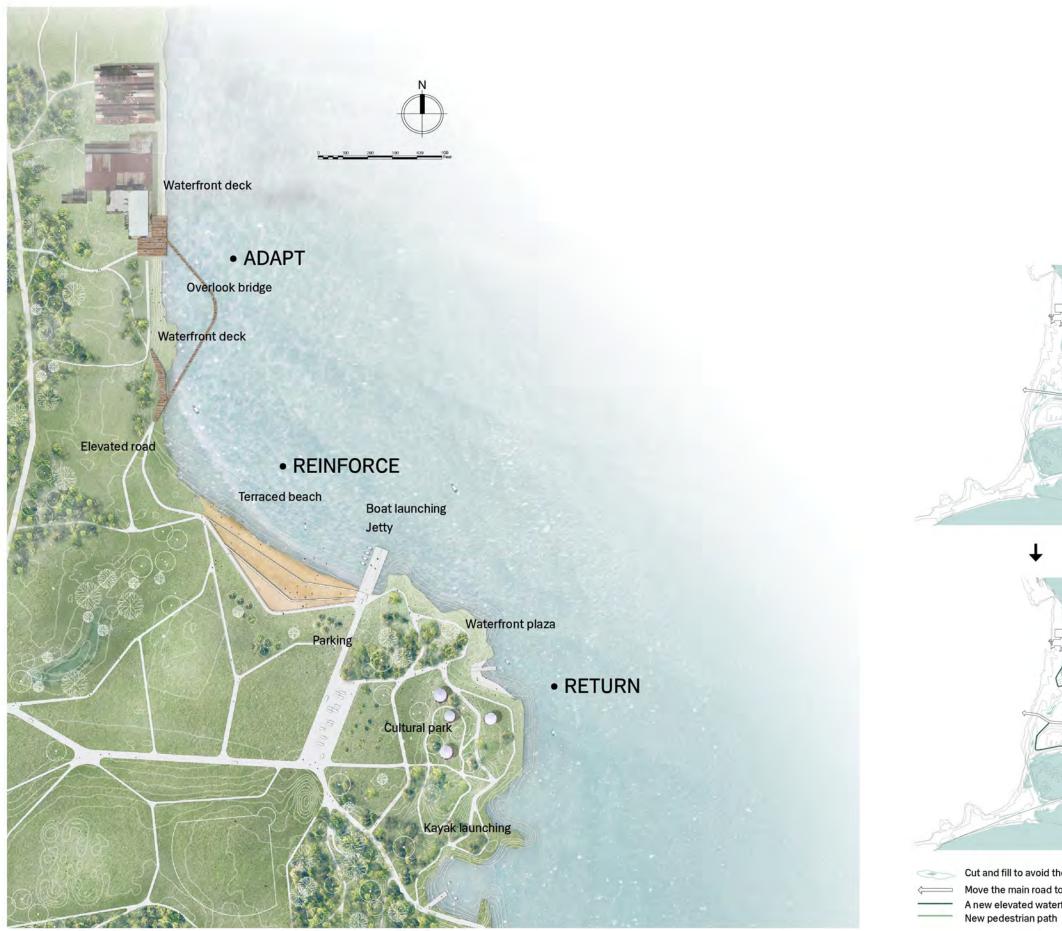
## WEAVING THE WATERFRONT KINGSTON

## **Kingston Point Climate Adaptive Design**

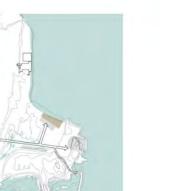
Proposal Ideas from Cornell CAD Studios

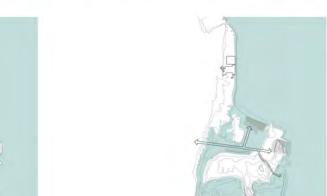


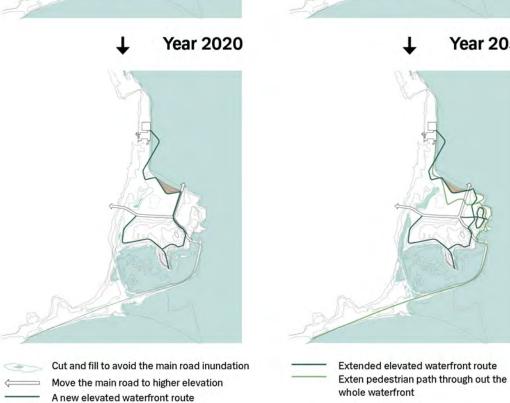
#### WEAVING THE WATERFRONT

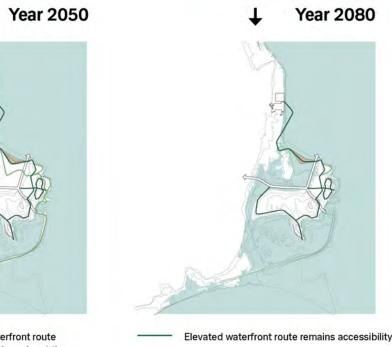
-- Project from Cornell CAD KINGSTON II Studio 2017 Spring Luyao Kong, Hong Gao, Qianli Feng

#### SEA LEVEL RISE CHALLENGE AND STRATEGIES

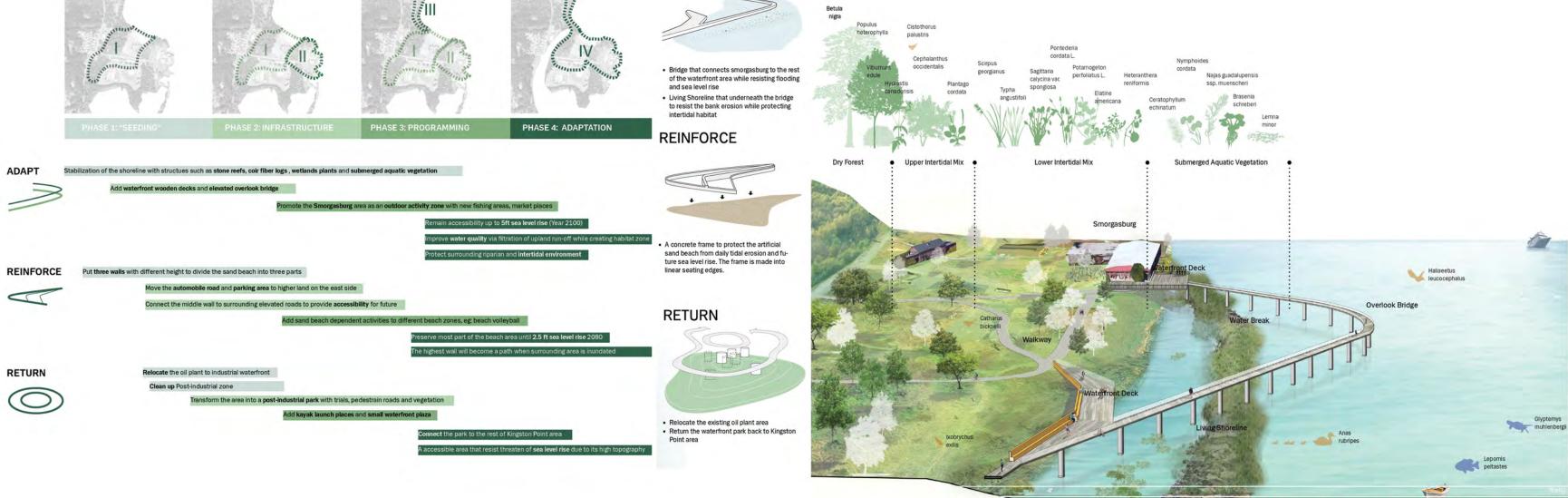








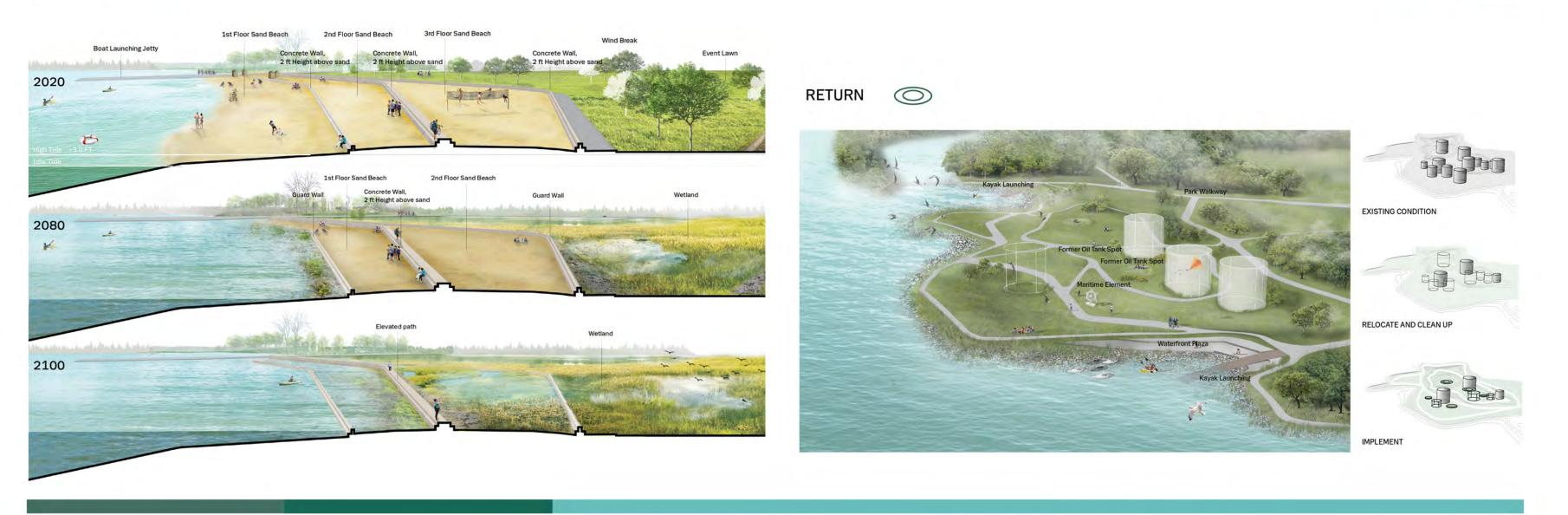
ADAPT Betula niga Populus Neterophylia Cistothorus paustris Pontederia



ADAPT



PHASES



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# WEAVING THE<br/>WATERFRONT<br/>KINGSTON

## Kingston Point Climate Adaptive Design

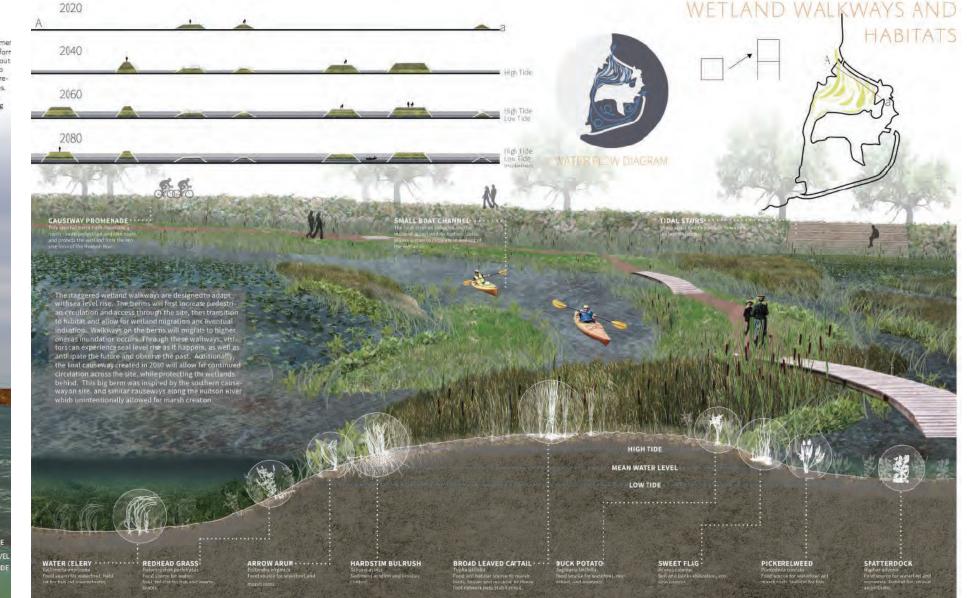
### Proposal Ideas from Cornell CAD Studios

#### **Project: Tracing Temporality**

Tess Russwick, Daisy Hoyt



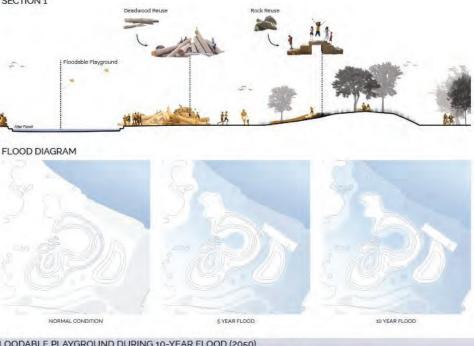
The causeway promenade will eventually wrap around Kingston Point; the revetmer will provide continued access to the site and protect the formed wetlands. This forr was inspired by the revetment on site, as well as the causeways located throughout the Hudson River. These causeways have inadvertently allowed tidal wetlands to form and thrive in area protected from the river currents. On the river side, the rewetment will be comprised of large limestone bolders, and hardy plants and vines. On the protected side, like willow and dogwood takkes will provide soil stability. Tidal stairs will allow access to water's edge, and serve as a reminder of the rising





The revetment (causeway promenade) will provide continuous access to the site while protecting the future wetland habitat area from river current and future sea level rise. Wetland walkways will help northern Kingston Point area to gradually transit into a wetland reserve along with future see level rise.





## FLODABLE PLAYGROUND (2050)



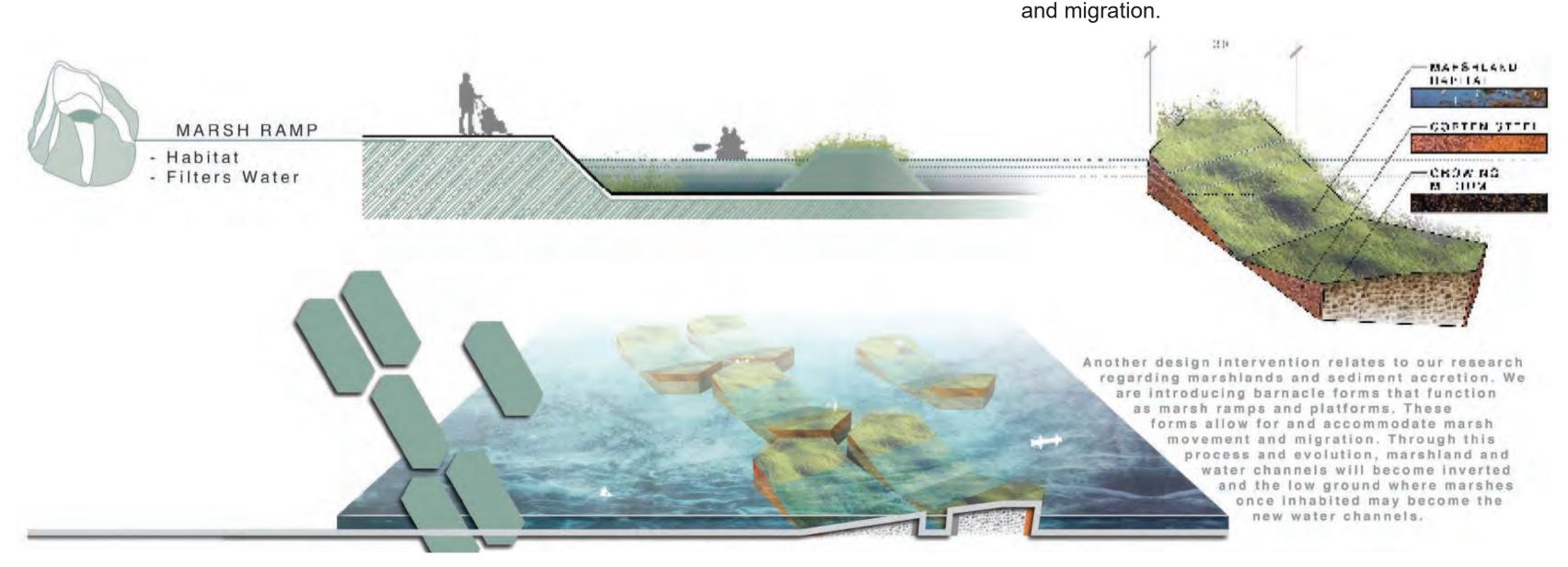
#### **Project: Actipelago** Yifu Kang, Xuru Yuan

Floodable playground that enhances the recreational feature at the point beach area while serving as a flood resilient structure.

#### **Project: Set Into Motion**

Thackston Crandall, Veronica Chan

Barnacle forms that function as marsh ramps and platforms. The structure accommodates marsh movement



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New England Interstate Water Pollution Control Commission

## **WEAVING THE WATERFRONT** KINGSTON

### Kingston Point Climate Adaptive Design

### Project Site & Sea Level Rise Projection

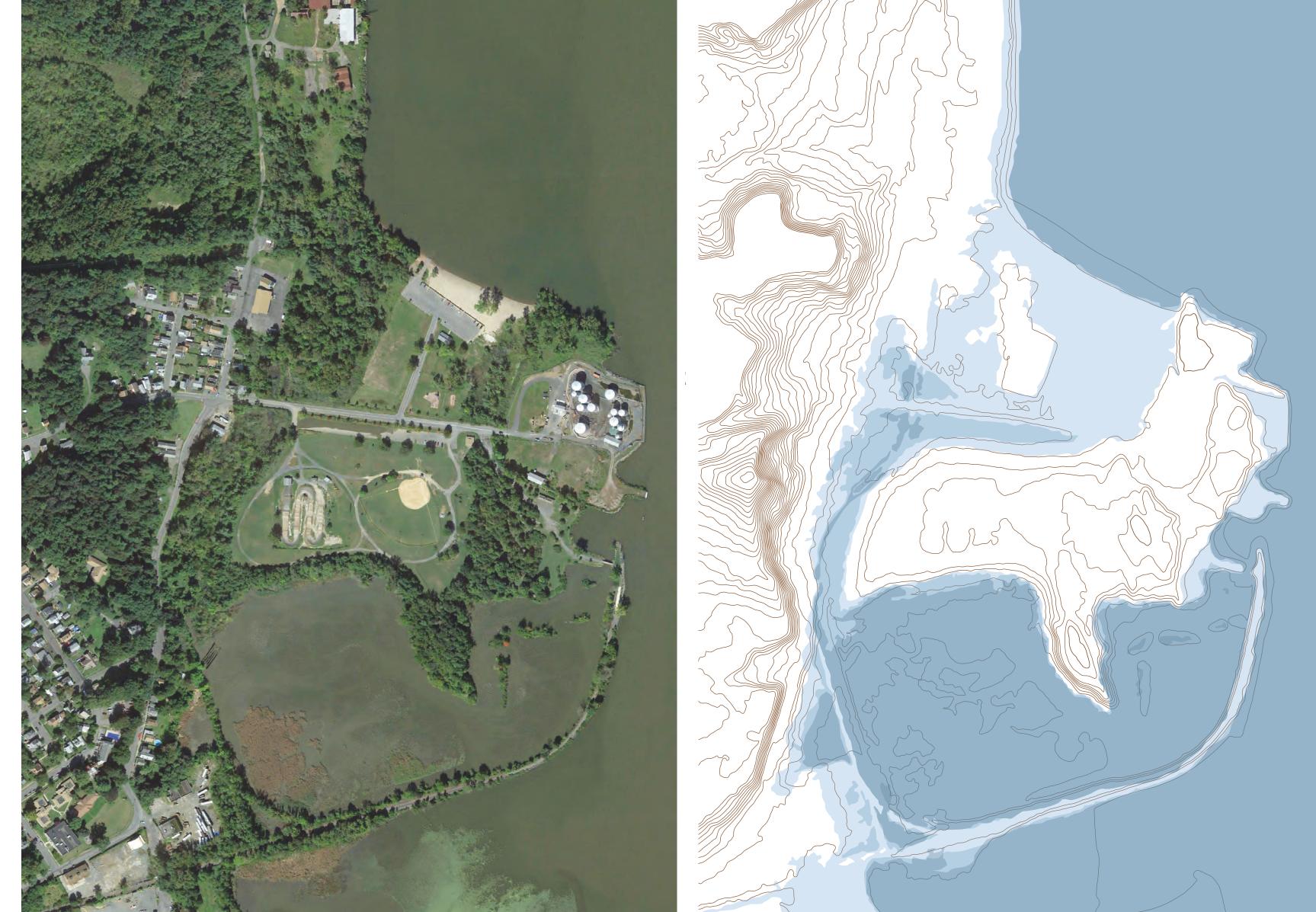


Kingston Point Beach

Existing Parking Lot Area

Softball Field





#### **EXISTING AERIAL IMAGE**

#### SEA LEVEL RISE PROJECTION





Kingston Rotary Park

Wetland

**Trolley Stop** 

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New England Interstate Water Pollution Control Commission

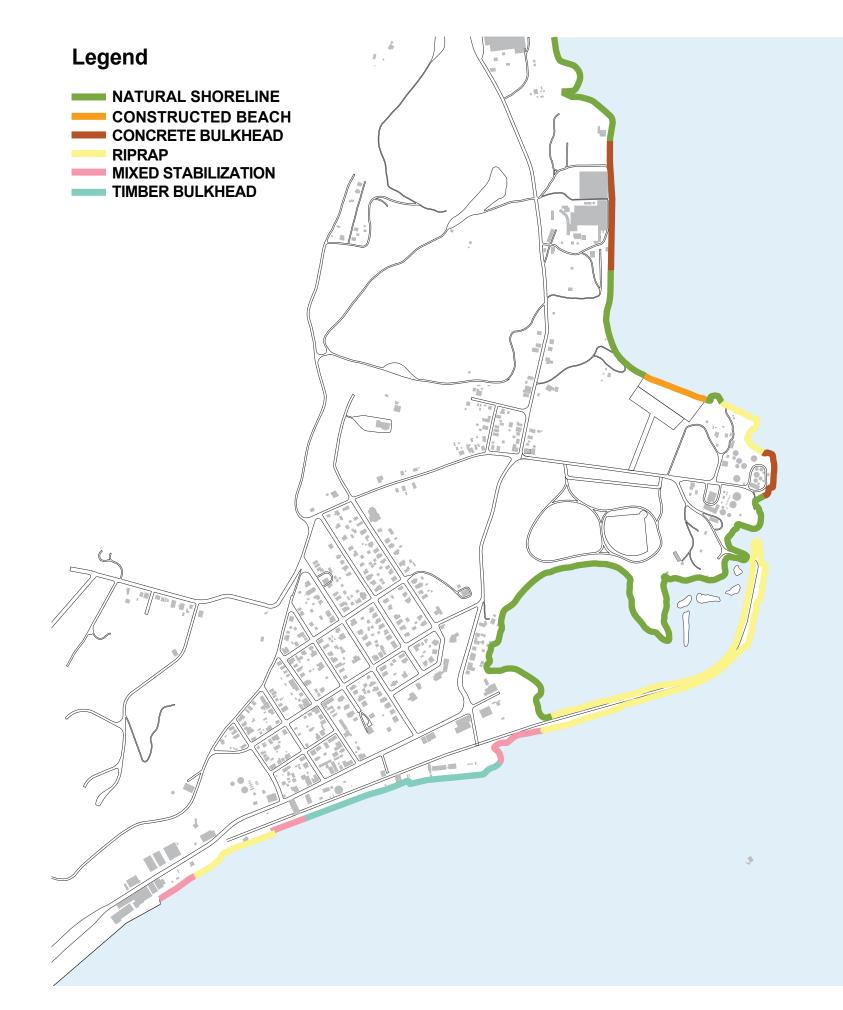
# WEAVING THE<br/>WATERFRONT<br/>KINGSTON

## Kingston Point Climate Adaptive Design

Site Analysis - Kingston Point



#### SHORELINE TYPES





#### **CIRCULATION/ACCESSIBILITY**



#### SITE PROGRAM



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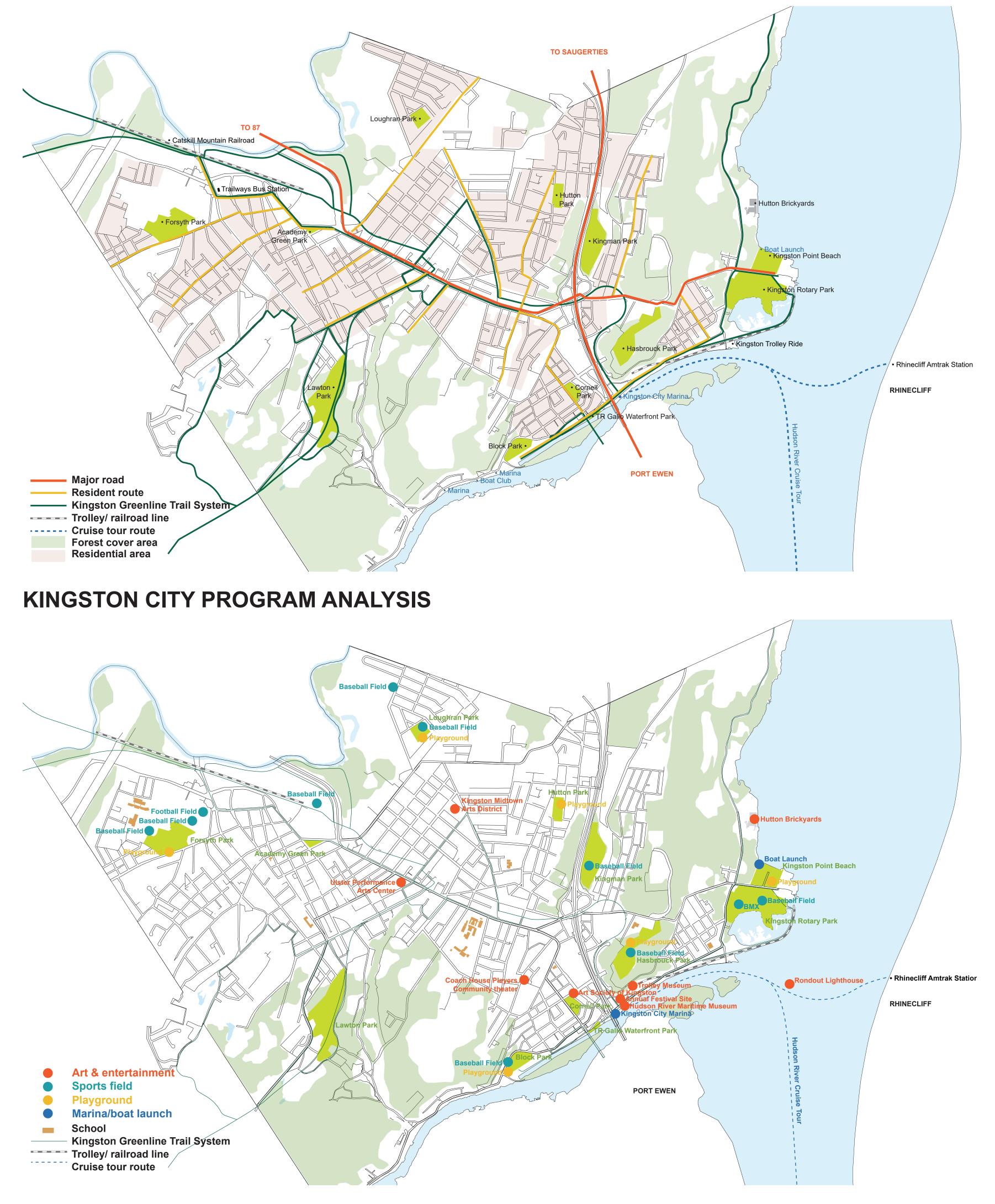


# WEAVING THE<br/>WATERFRONT<br/>KINGSTON

## Kingston Point Climate Adaptive Design

Site Analysis - Citywide

**KINGSTON CITY CIRCULATION/ACCESS ANALYSIS** 



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# WEAVING THE<br/>WATERFRONTKINGSTON

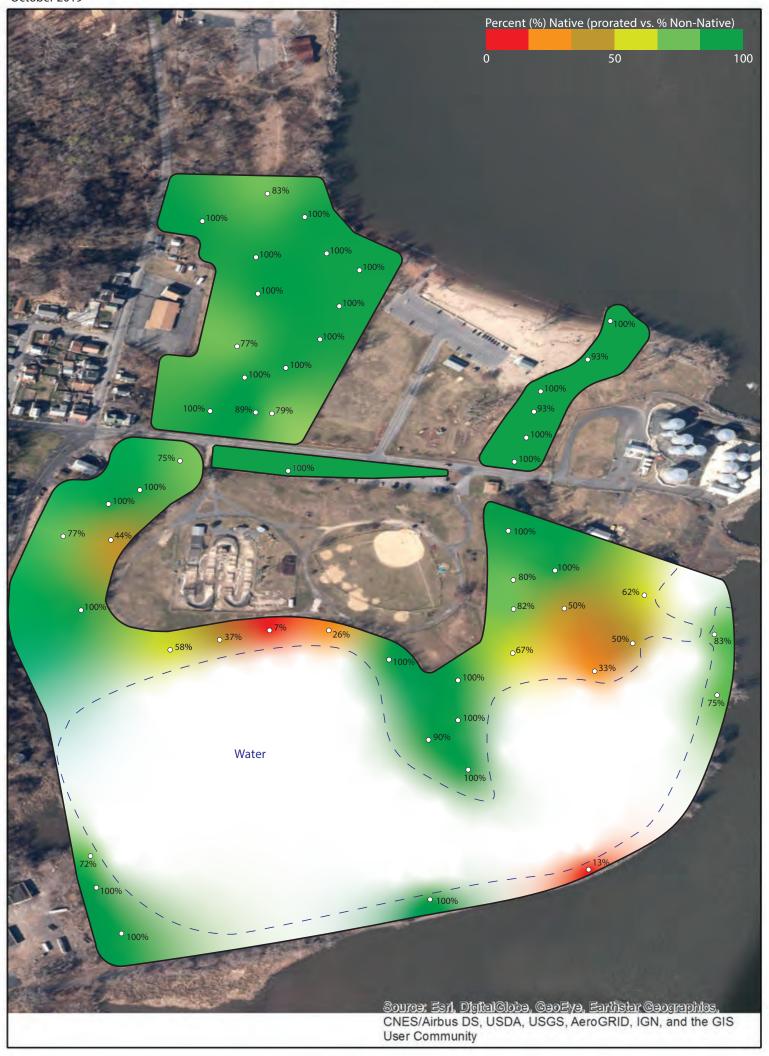
### Kingston Point Climate Adaptive Design

Vegetation Survey: Percent Native Species

VEGETATION TYPE: FOREST & HERBACEOUS WETLAND

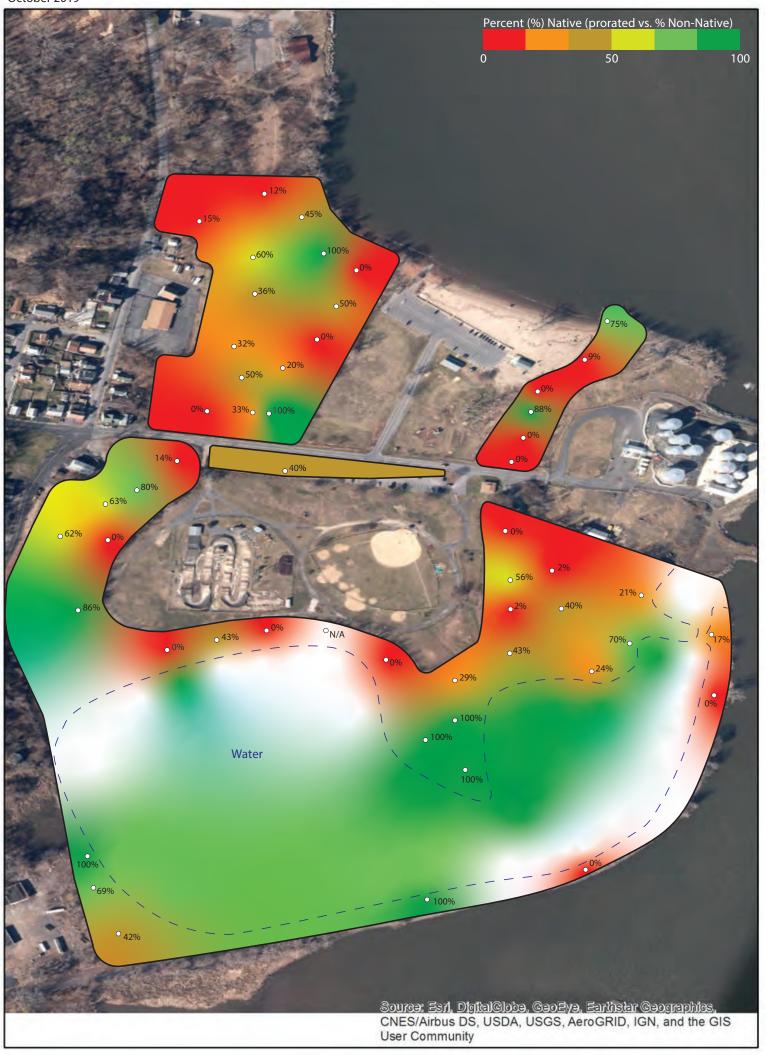


CANOPY October 2019



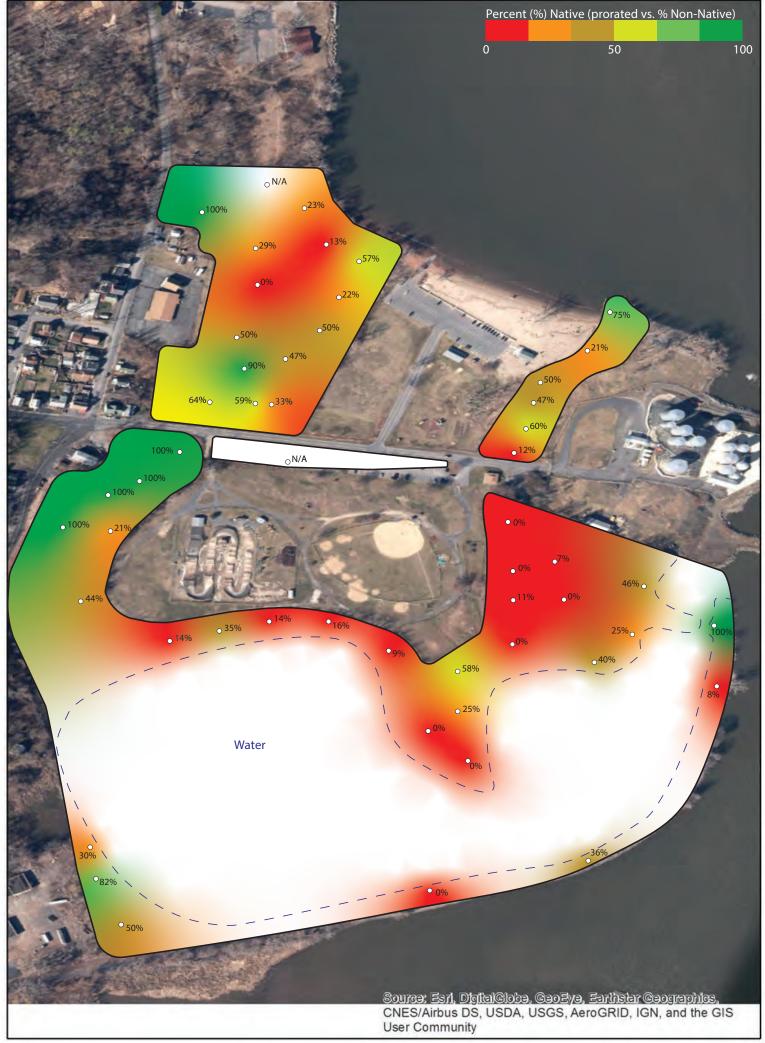
Note: native species were ranked, giving invasive, native species a value ranking of 50% of native, non-invasive species.

#### **GROUNDCOVERS** October 2019



#### **SHRUBS & VINES**

October 2019



Note: native species were ranked, giving invasive, native species a value ranking of 50% of native, non-invasive species.

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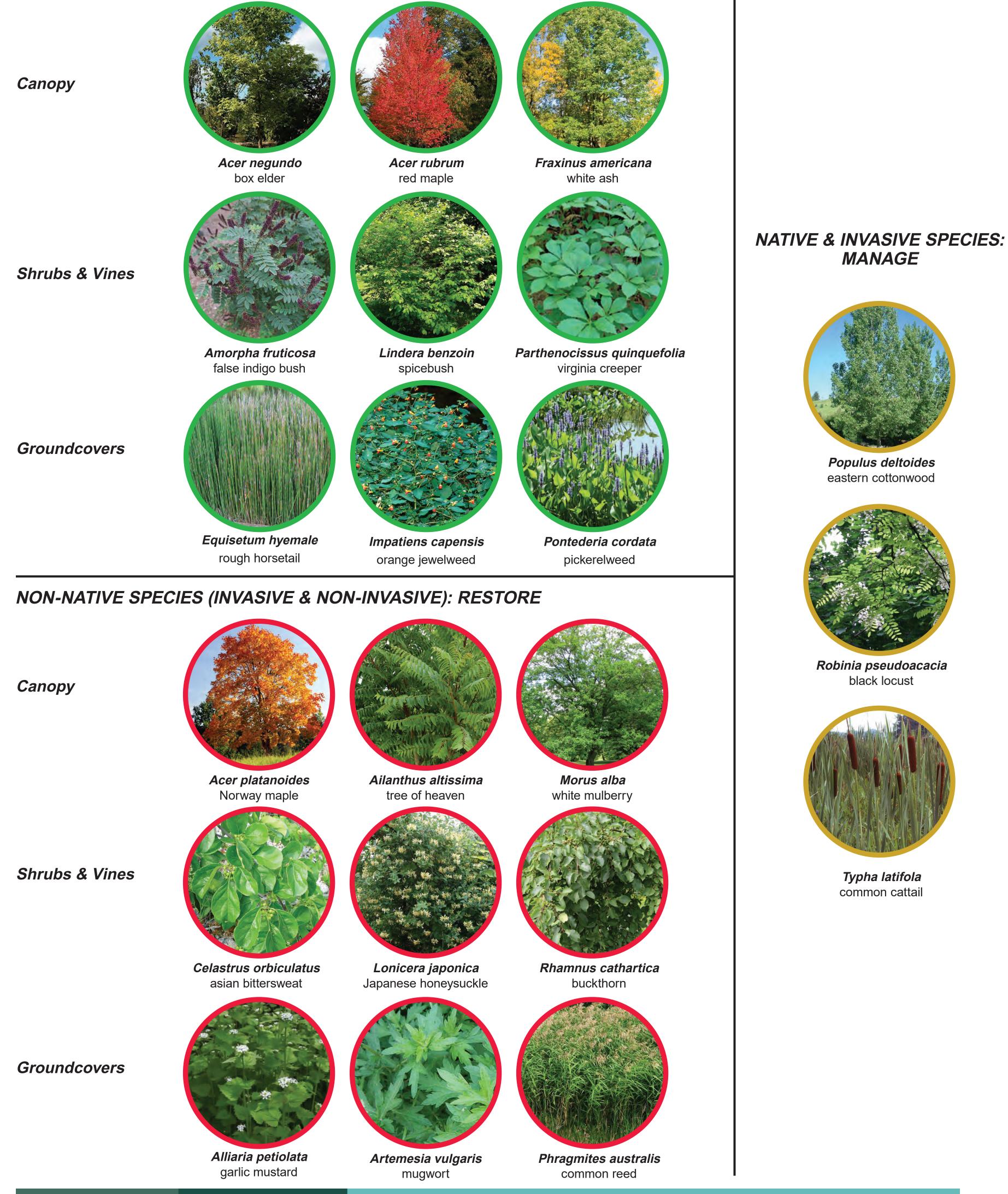
New England Interstate Water Pollution Control Commission

## WEAVING THE WATERFRONT KINGSTON

## **Kingston Point Climate Adaptive Design**

Vegetation Survey: Representative Species at Kingston Point

NATIVE & NON-INVASIVE SPECIES: PRESERVE





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## Kingston Point Climate Adaptive Design

**Preliminary Framework** 



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