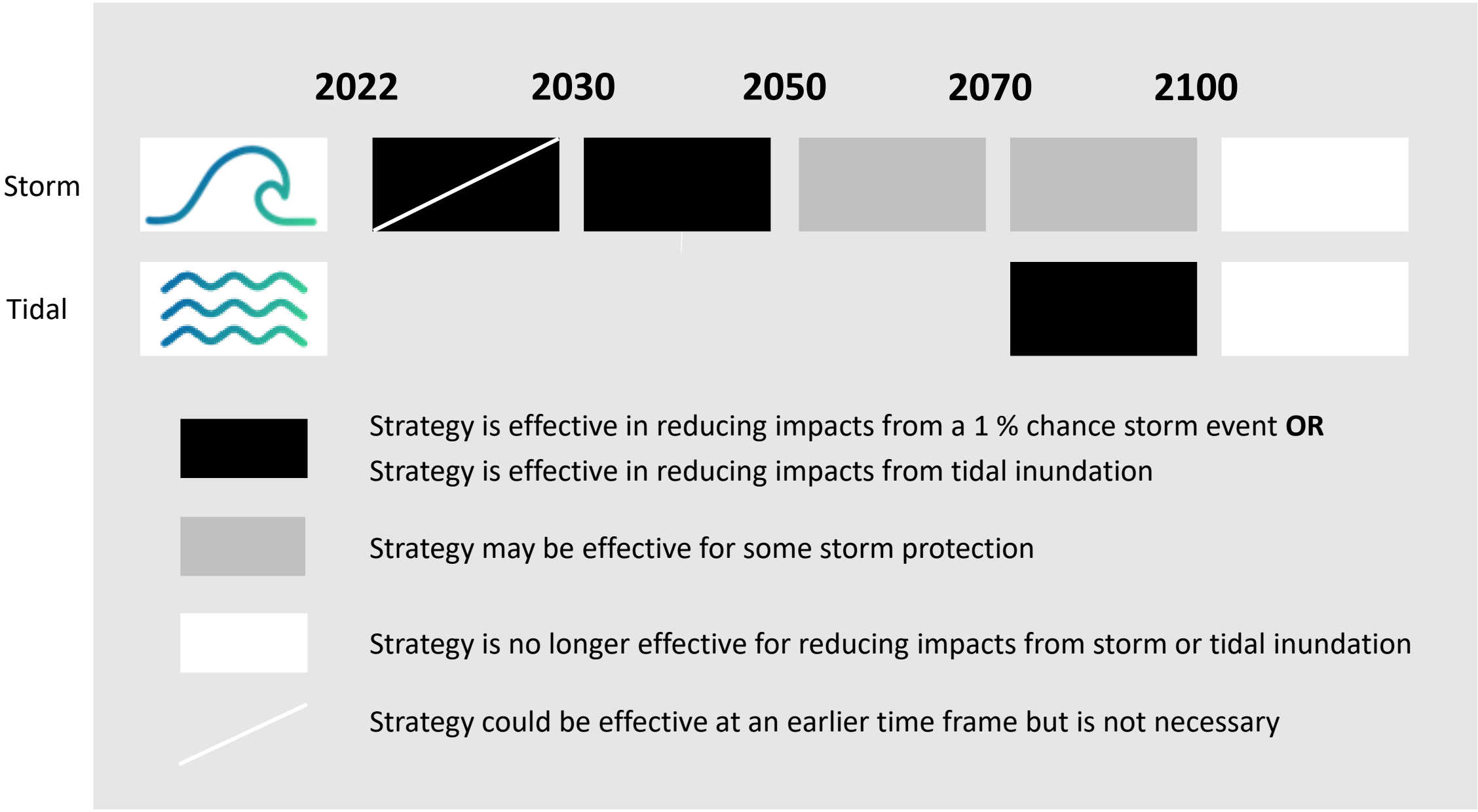

2022
2030
2050
2070
2100
Storm
Tidal
Strategy is effective in reducing impacts from a 1 % chance storm event OR
Strategy is effective in reducing impacts from tidal inundation
Strategy may be effective for some storm protection
Strategy is no longer effective for reducing impacts from storm or tidal inundation
Strategy could be effective at an earlier time frame but is not necessary

Management Area
Waterfront

Use of deployable barriers may provide longer term resiliency benefits for entire Spencer Baird Management Area.

Wet floodproofing community buildings (WHCA, Fire Station). No longer effective if water floods 1st floor. Consider elevating and wet floodproofing if water level exceeds 3 ft above grade.

2022 2030 2050 2070 2100

Wet Floodproofing

Deployable Barriers

Deployable flood protection strategies (up to 48") for science and community buildings (WHCA and Fire Station)

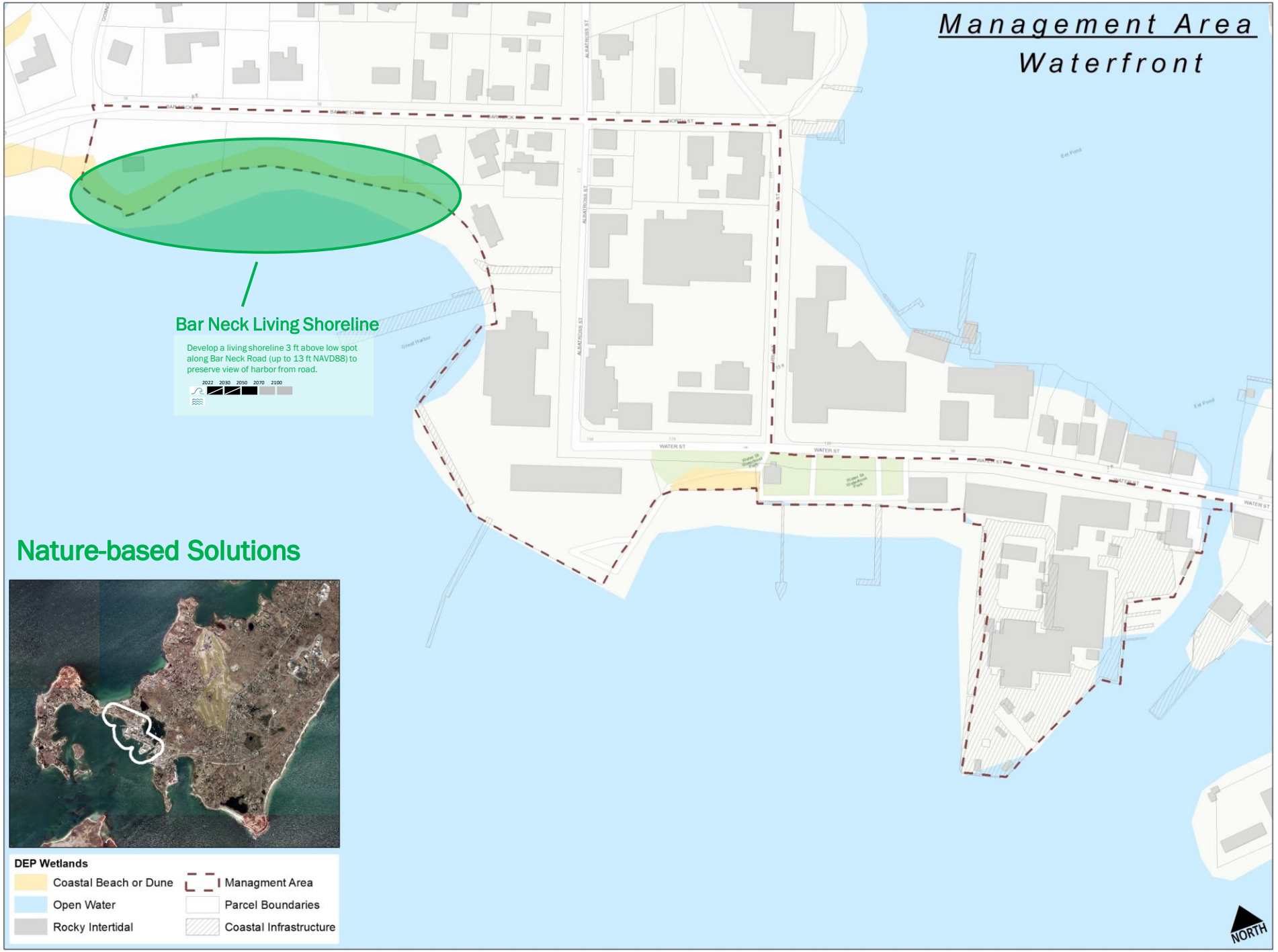
2022 2030 2050 2070 2100

Maintain Character

DEP Wetlands

- Coastal Beach or Dune
- Open Water
- Rocky Intertidal
- Managment Area
- Parcel Boundaries
- Coastal Infrastructure

NORTH


Management Area
Waterfront
Bar Neck Living Shoreline
Develop a living shoreline 3 ft above low spot along Bar Neck Road (up to 13 ft NAVD88) to preserve view of harbor from road.
2022 2030 2050 2070 2100
Nature-based Solutions
DEP Wetlands
Coastal Beach or Dune
Open Water
Rocky Intertidal
Managment Area
Parcel Boundaries
Coastal Infrastructure
NORTH

Management Area
Waterfront

Elevate Water St/Albatross St

Elevate Water Street and Albatross Street no higher than 9.5 ft NAVD88, to tie into Lillie Lawn elevations on the north side of Water Street.

2022 2030 2050 2070 2100

Dry Floodproofing

Dry flood proof structures (scientific facilities and sewer pump station) up to the 1% storm event. No longer viable if tidal inundation impacts the structures.

2022 2030 2050 2070 2100

Elevate NOAA Bulkhead (Tidal)

Elevate NOAA bulkhead to protect against tidal inundation.

2022 2030 2050 2070 2100

Protect/Connect

Water St/Albatross Flood Walls

Water St and Albatross Road sidewalk/waterfront wall with rising gate at boat ramp, integrated with CWATER and NOAA Strategies. Max height of 3 ft and tied to high point north of NOAA cottage.

2022 2030 2050 2070 2100

Elevate Waterfront Park with NOAA Corner

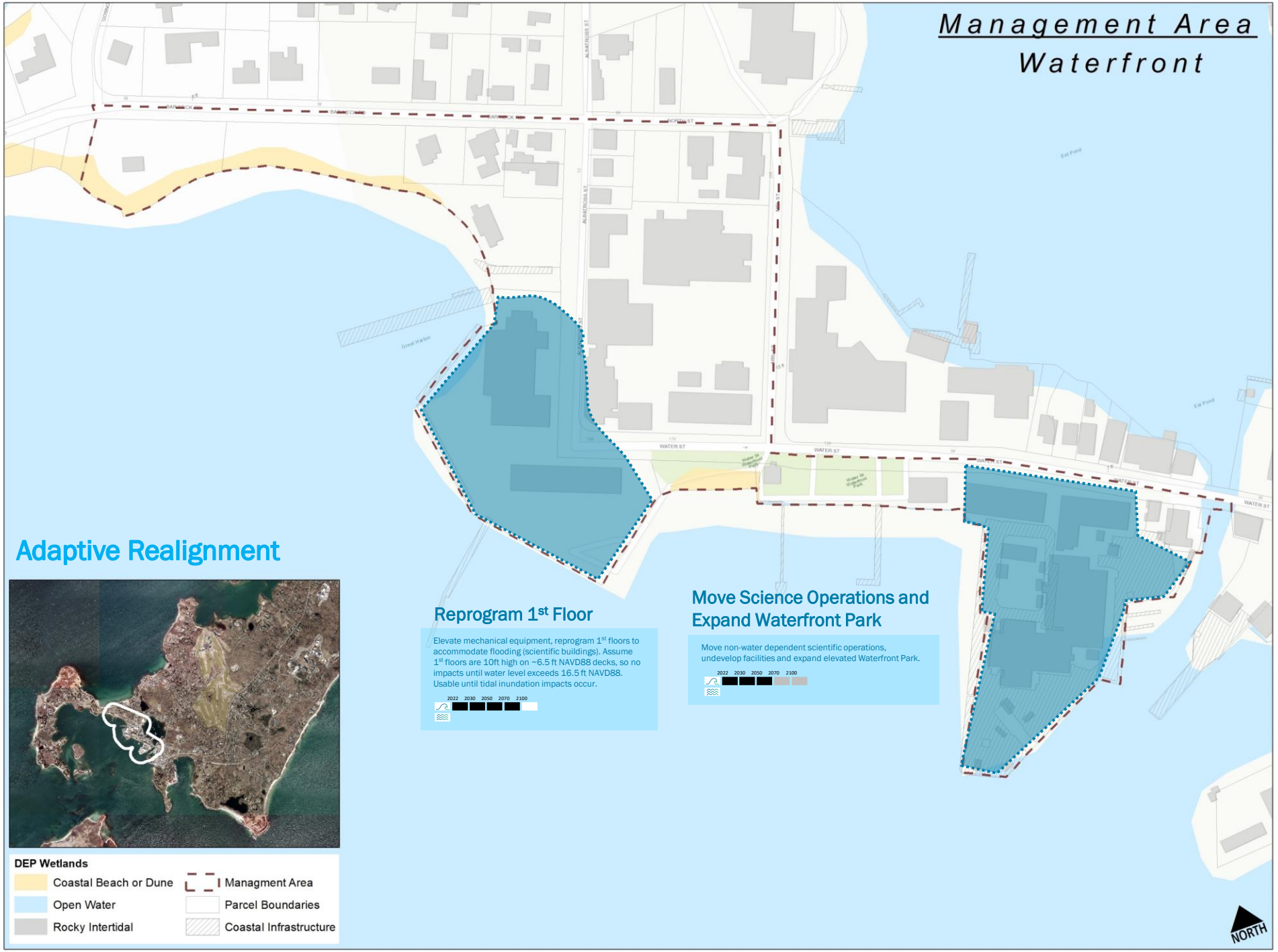
Elevate Waterfront Park with two 24" tiers in park elevation to maintain sightlines, bringing total elevation to ~12 ft NAVD88.

2022 2030 2050 2070 2100

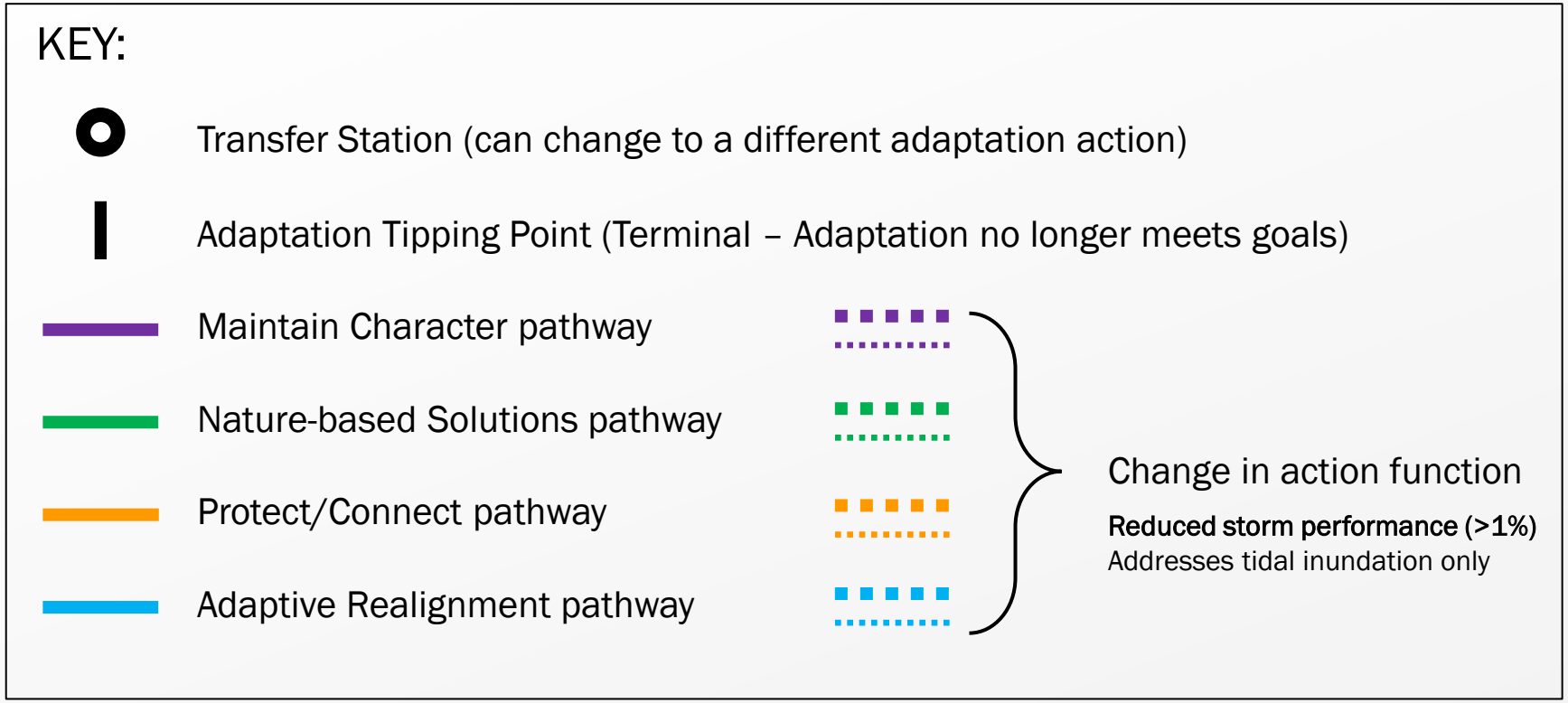
DEP Wetlands

- Coastal Beach or Dune
- Open Water
- Rocky Intertidal
- Managment Area
- Parcel Boundaries
- Coastal Infrastructure

NORTH


Management Area
Waterfront
Adaptive Realignment
Reprogram 1st Floor
Elevate mechanical equipment, reprogram 1st floors to accommodate flooding (scientific buildings). Assume 1st floors are 10ft high on ~6.5 ft NAVD88 decks, so no impacts until water level exceeds 16.5 ft NAVD88. Usable until tidal inundation impacts occur.
2022 2030 2050 2070 2100
Move Science Operations and Expand Waterfront Park
Move non-water dependent scientific operations, undevelop facilities and expand elevated Waterfront Park.
2022 2030 2050 2070 2100
DEP Wetlands
Coastal Beach or Dune
Open Water
Rocky Intertidal
Managment Area
Parcel Boundaries
Coastal Infrastructure
NORTH

Dynamic Adaptation Pathways for Woods Hole



Waterfront Area