

**DUXBURY
BEACH
RESERVATION, INC.**

**DBR Project
Presentation:
Dune & Beach
Restoration**

1/4/2023

Outline



- Duxbury Beach Reservation



- Project Overview



- Benefits & Need



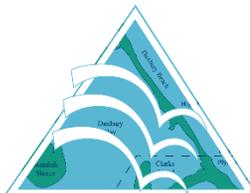
- Project Funding



- Impacts to the Community



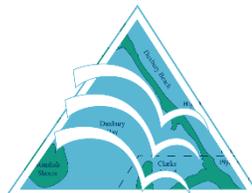
- Staying Up to Date



Duxbury Beach Reservation (DBR)



- Privately owned since 1919
- Public charity 501(c)(3)
- Volunteer run for 98 years
- Width range: 42 – 324m
- 4.5 miles of coastline
- Regulated by multiple agencies

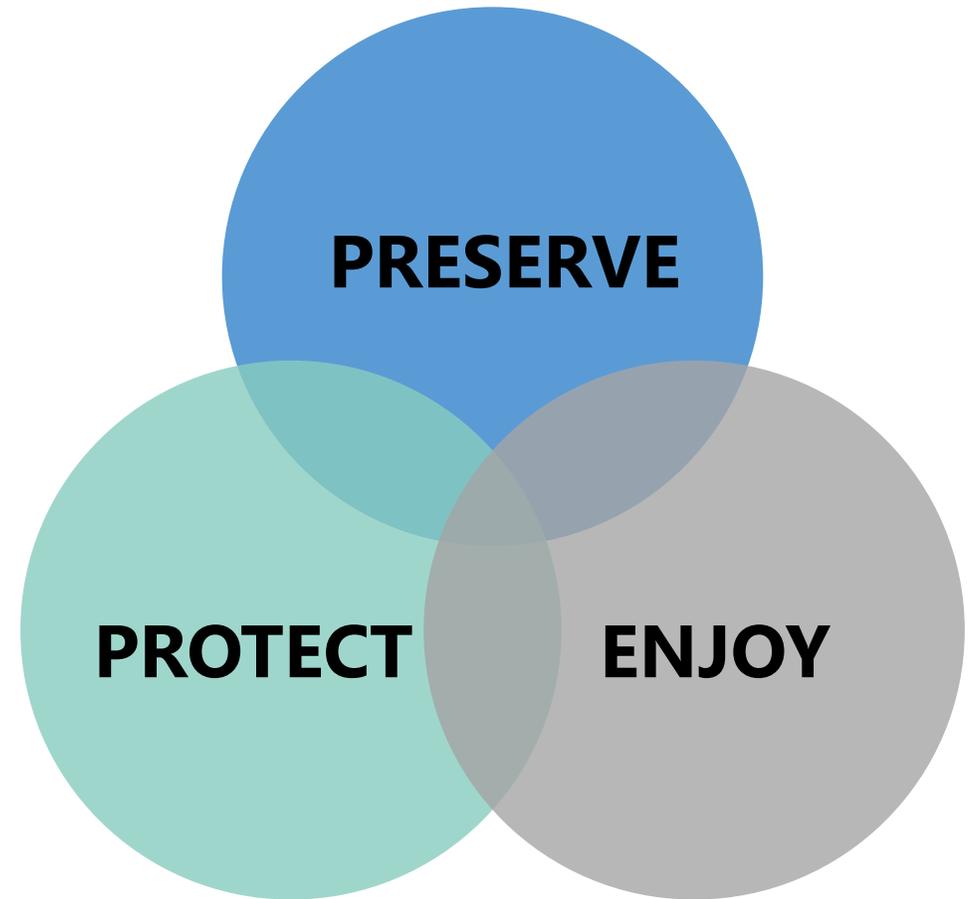


DBR Articles of Incorporation

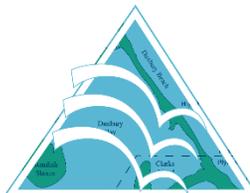
PRESERVE the barrier beach (to safeguard the adjacent bays and mainland)

PROTECT the ecology (wildlife & vegetation)

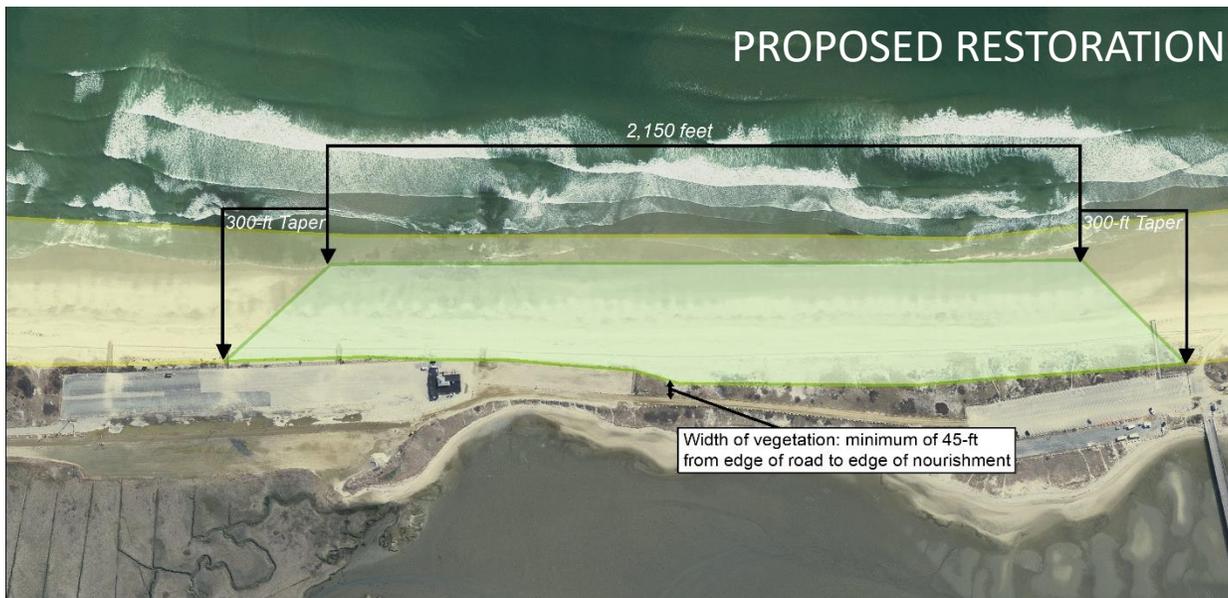
Welcoming the public to **ENJOY** (open to the public: Duxbury residents and non-residents)



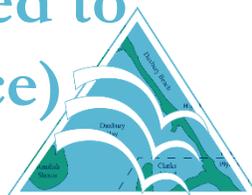
- Reservation's actions are essential to the survival of Duxbury Beach
- The health of the beach is critical in the protection of Duxbury's shoreline



Winter 2023 Restoration Project



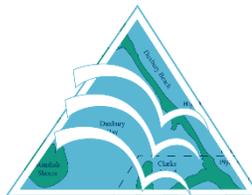
- Beach and dune nourishment **(72,500 cubic yards of sand)**
- Spanning Duxbury Beach Park to the Powder Point Bridge **(2,750 linear feet)**
- Planted with American Beach Grass and woody shrubs **(28,000 culms of beach grass)**
- Restored fencing and pathways following completion **(designed to improve access and resilience)**



PRESERVE the Barrier Beach

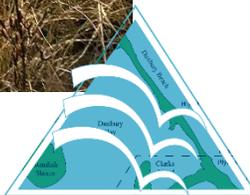


- Strengthens the barrier by adding sand to a very **narrow section of beach and dune**
- **Protects the mainland, bay, and saltmarsh** behind the barrier beach from nor'easters
- Increases the overall resilience of Duxbury Beach as sand moves south from the nourished area – **vital to the sand starved beach**



PROTECT the Ecology

- Avoids damage to existing vegetation beyond the project footprint through limited construction access and staging points
- Designed to maintain suitable shorebird habitat **per state and federal permits**
- Maintains plant **species diversity**



Welcoming the Public to ENJOY

- Sand nourishment on **two recreational beaches**
- **Protects and improves the most utilized and accessible** sections of beach
- Involves rebuilding and improving **access paths**



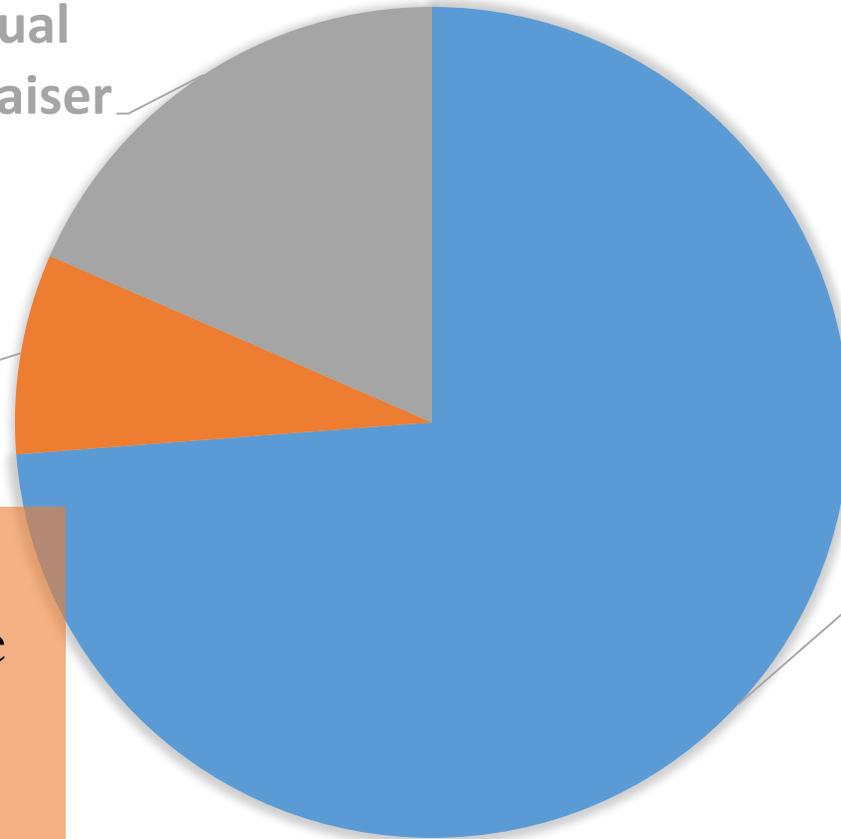
Project Funding

\$450,000: Restricted funds raised through DBR's 2020 Party in a Box and 2021 Beach Ball

DBR
Annual
Fundraiser

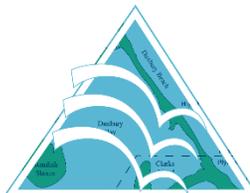
NAWCA
Grant
(Federal)

\$190,000: The first federal funds received by DBR since 2007 following refusal of FEMA to continue reimbursing costs of storm damage repair on the beach



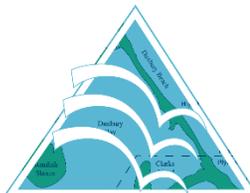
\$1.8 M: Builds on work completed through Coastal Zone Management grants received in 2015, 2020, and 2021-2022

CZM Grant
(State)



Impacts to the Community

- Gurnet Road between DBR northern property access and bridge will be impacted
 - Alternate routes suggested
- Main Lot at Powder Point Bridge
 - Restricted starting February 1st
 - Travel lanes through parking lot will be impacted
 - Parking in bayside/overflow lot available
- Access to Main Beach limited
 - Dune and beach work will limit access on oceanside
- Projected completion date: March 31, 2023



Duxbury Beach Park

Construction Access Points – Utilizing Existing Pedestrian and Vehicular Access Points



Resident Lot

Construction Access Points – Utilizing Existing Pedestrian and Vehicular Access Points

No Construction Access Points
Between Caterer's Lot and
Resident Lot

Road Remains Open

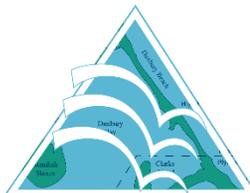
Truck Access and Equipment Storage

- Travel Lane Remains Open
- Parking Remains Open
- Overflow Lot Remains Open



Staying Up to Date

- Sign up for DBR's email list at www.duxburybeachreservation.org/learnmore
- Follow DBR on Instagram or Facebook (@duxburybeachreservation)
- Sign up for Town of Duxbury Beach Operations update emails <https://www.town.duxbury.ma.us/subscribe>
- Volunteer for one of DBR's planting days this spring (date TBD) www.duxburybeachreservation.org/volunteer
- Stay tuned for information about the project “Grand Opening” this spring!



Thank You!

MA Coastal Zone Management (CZM)
North American Wetlands Conservation Act (NAWCA)
DBR Sponsors & Attendees of Party in a Box and Beach Ball 2021

Stewart Ting Chong (photography)
Woods Hole Group
Duxbury Construction
Town of Duxbury Beach Operations
& all supporters of DBR's work to protect Duxbury Beach