

# Sediment to Solutions: Beneficial Use

**Beneficial Use (BU)** of dredged material means using sediment dredged from shipping channels for the restoration of underwater grasses, island restoration, stabilization of eroding shorelines, the creation or restoration of wetlands, and the creation, restoration, or enhancement of fish or shellfish habitats. Beneficial use of dredged material is a critical component of the Dredged Material Management Program (DMMP). With strong community support and increasing educational efforts, the Maryland Port Administration (MPA) continues to implement its innovative reuse and beneficial use strategy which provides clear policy, regulatory, and technical actions.

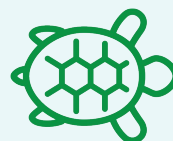


## DREDGED MATERIAL IS BRINGING ISLANDS BACK TO LIFE

The Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island is world-renowned for its beneficial use of dredged material to restore remote island habitat, helping to mitigate the effects of sea-level rise. The restored island, located in Talbot County, is a popular stopover site for migratory birds along the Mid-Atlantic flyway and provides a home to a wide variety of other wildlife. Poplar Island is now home to 250 species of birds, the largest nesting colony of terns, 16,500+ diamondback terrapins and more.

## THE BENEFITS OF BENEFICIAL USE

- Preserves existing island habitat
- Restores islands and coastal wetlands
- Reduces erosion to local shorelines
- Enhances habitat for native and migratory birds and fish
- Sustains reliable, navigable shipping channels
- Adds elevation capital to habitats



# Beneficial Use (BU)



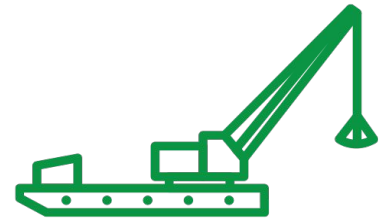
*“There is growing recognition that dredged material can often be put to beneficial use...and that certain uses of this material can be fully protective of public health and the environment as well as being economically beneficial.”*

– Maryland Department of the Environment

## ADDRESSING COASTAL RESILIENCE

MPA is an active participant in the Maryland Commission on Climate Change and works closely with sister agencies and academic partners to identify opportunities to proactively plan and implement measures to reduce climate change impacts. The beneficial use of dredged material is an essential tool, with projects providing sediment to build more resilient shorelines and adding elevation capital to habitats. MPA is committed to becoming resilient in the face of climate change by:

- Working with partners to research, plan, and implement sound resilience and adaptation policies and projects
- Advancing the 2020 IRBU Strategy to “Investigate how beneficial use of dredged material can be expanded to address MD’s coastal resiliency needs”



## THE FUTURE OF BENEFICIAL USE: MID-BAY UNDERWAY

The Mid-Bay Island Ecosystem Restoration Project is integral to the MPA 20-year DMMP strategy. The beneficial use of dredged material at this site will support the necessary depth of bay channels and reverse years of ongoing and accelerating erosion at James and Barren Islands. Located in Dorchester County, Maryland, the project will restore 2,144 acres of remote island in the Chesapeake Bay, reduce storm-related shoreline erosion rates by up to 30% on neighboring shorelines, and create vibrant wetland and upland habitats for native plants, fish, and migratory and native birds. The project is projected to receive nearly 2 million cubic yards of sediment each year. That’s the equivalent of a 16-foot wide road from Baltimore to San Francisco.



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