

# U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT

Ortley Beach Voters and Taxpayers Association

Steve Rochette  
U.S. Army Corps of Engineers  
Philadelphia District  
6/15/2024



US Army Corps  
of Engineers®





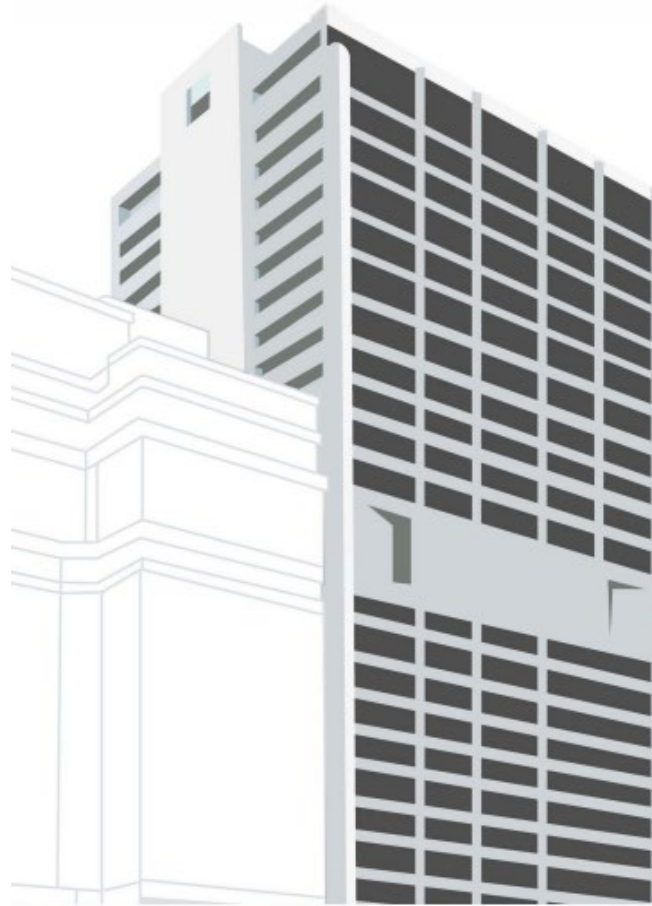
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# THE PHILADELPHIA DISTRICT

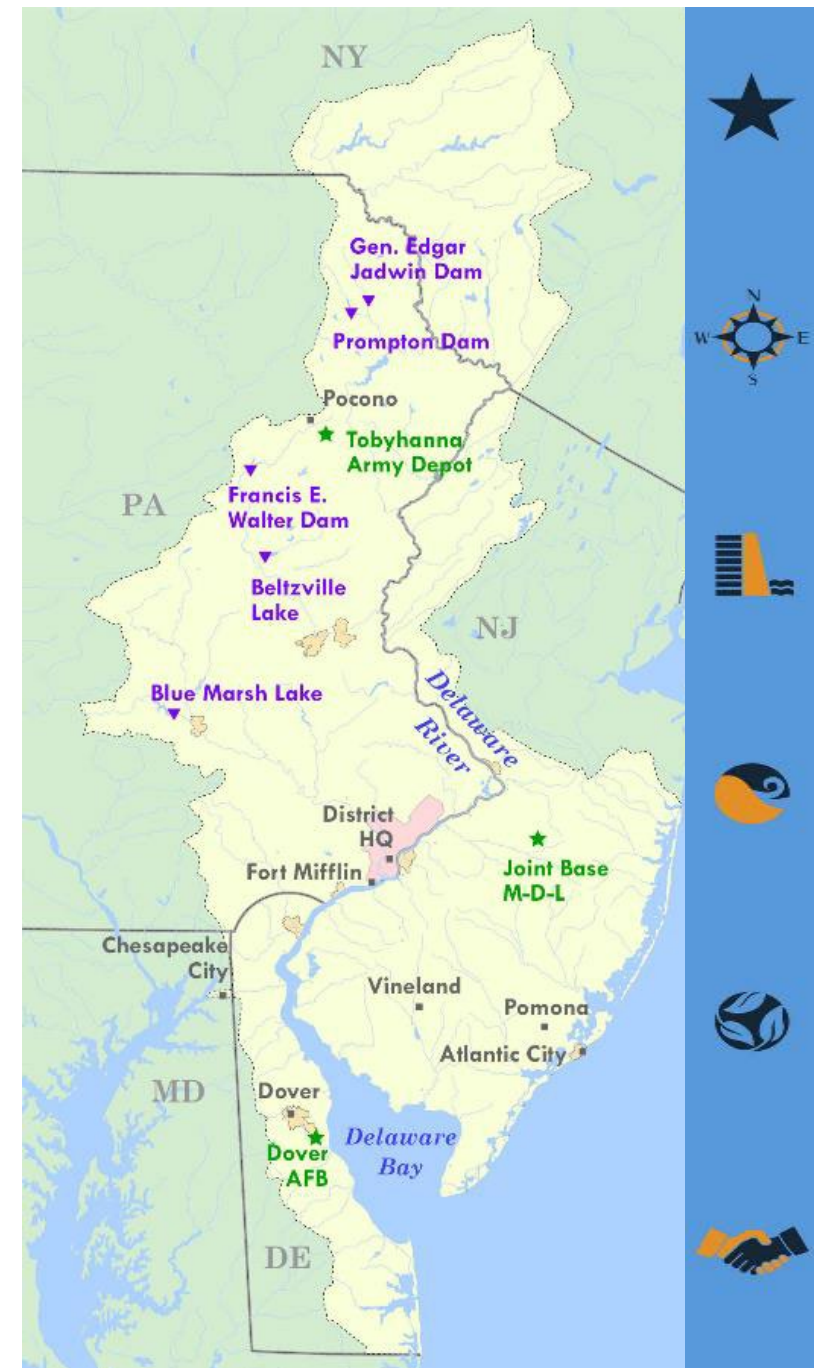
*Serving the Delaware River Basin  
and the Mid-Atlantic Coast*

## BY THE NUMBERS

- ~ > 10 million people
- ~ 1 million acres of wetlands
- ~ 15,000 square miles
- ~ 500 miles of channels
- ~ 500 Army civilians
- 14 Field Offices
- 150 miles of coastline
- 5 states
- 5 earthfill dams
- 5 highway bridges
- 4 sea-level canals
- 1 seagoing dredge



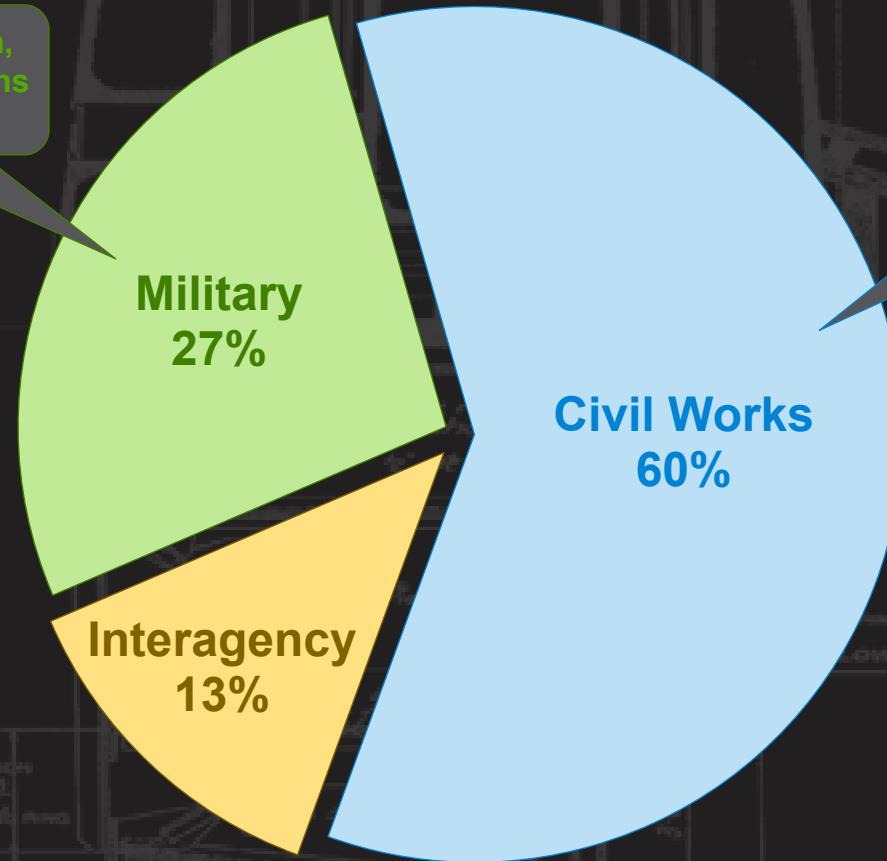
**Headquarters – 1650 Arch Street**



# MISSIONS & FUNDING SOURCES



Military Construction,  
Defense Appropriations  
via Army, Air Force



Energy & Water  
Development  
Appropriation (direct)



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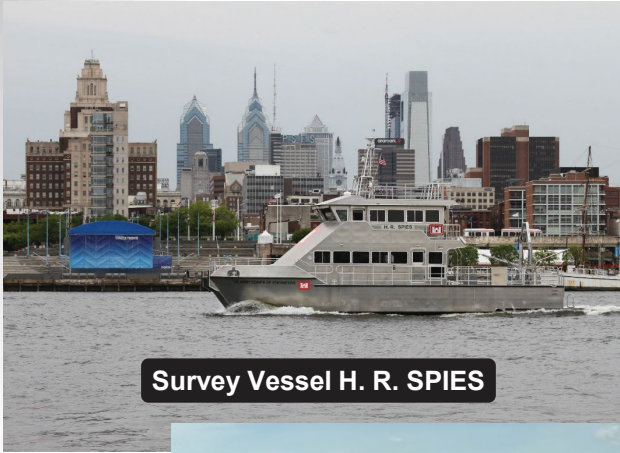




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# CIVIL WORKS NAVIGATION

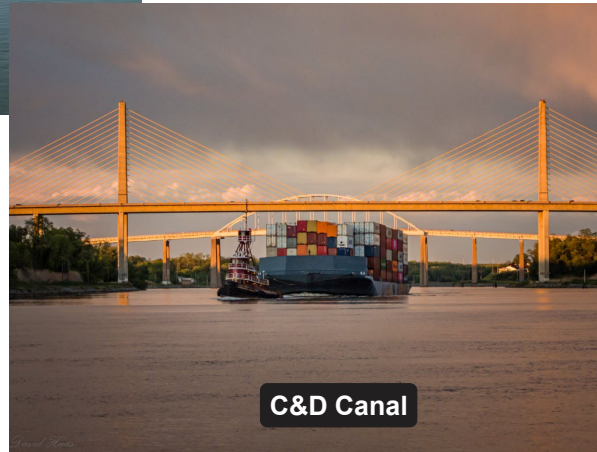
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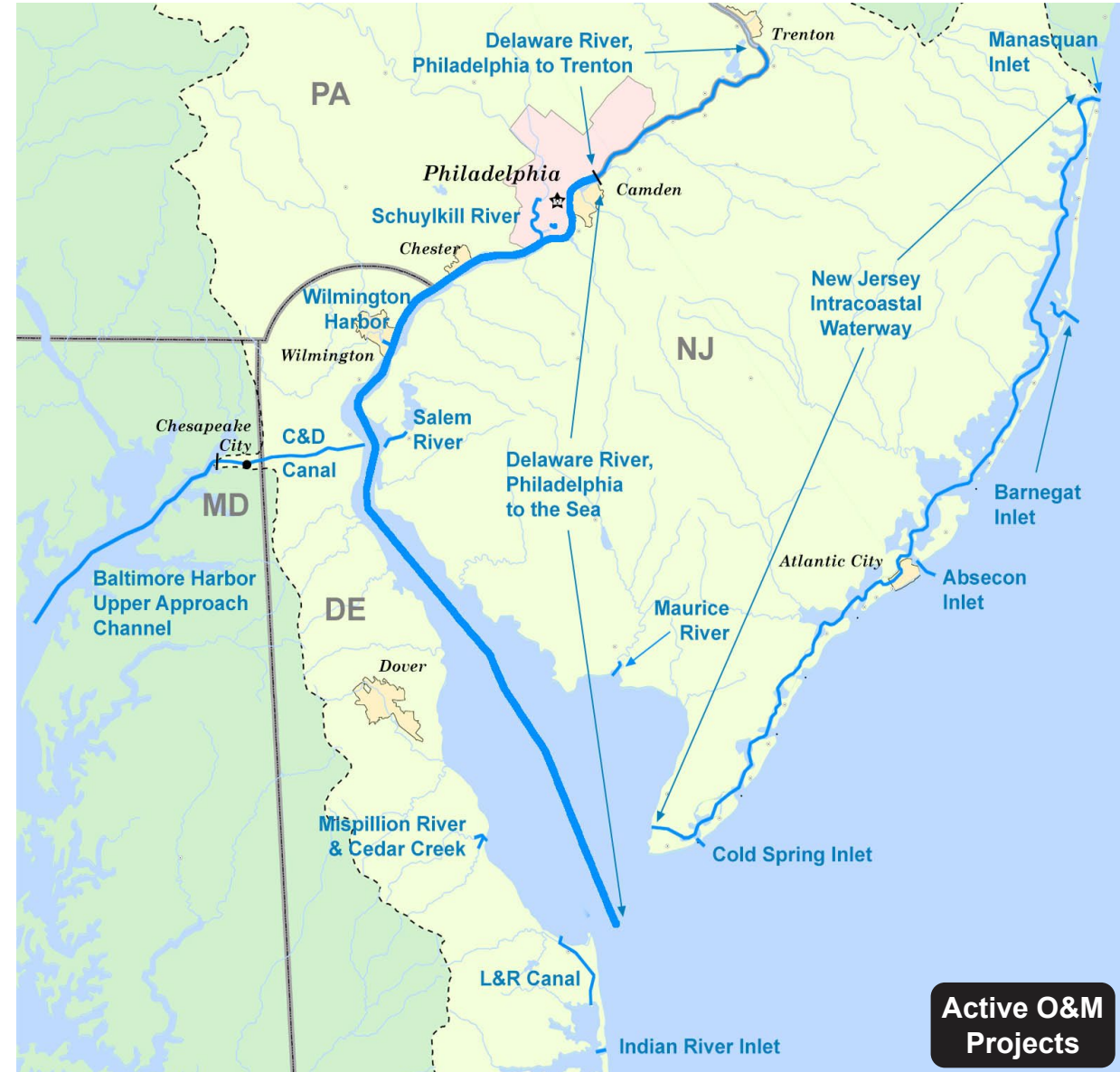
Survey Vessel H. R. SPIES



Dredge McFarland



C&D Canal



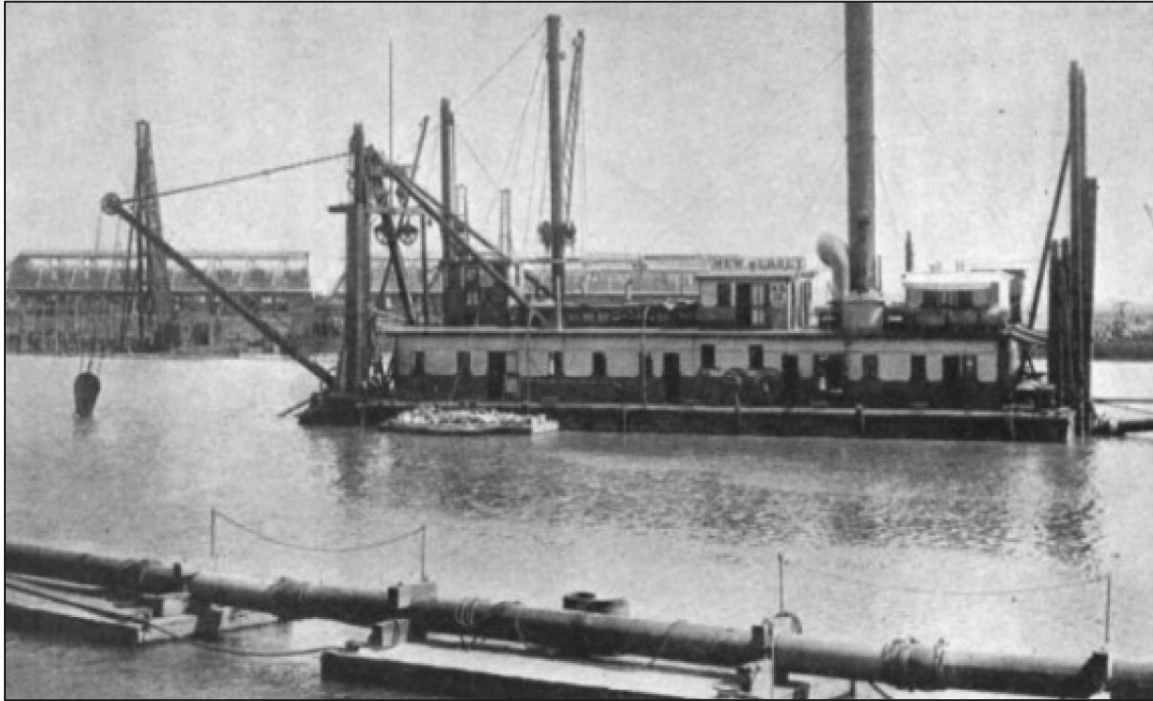
Active O&M  
Projects



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# EVOLUTION OF DREDGED SEDIMENT

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1912



December 2022





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# EVOLUTION OF DREDGED SEDIMENT



- Each year, USACE dredges 220 million cubic yards of sediment
- 70% beneficial use goal by 2030
- Premise:
  - “Sediment is the currency of salt marsh ecosystems” ~ Dr. Lenore Tedesco, Exec. Director of The Wetlands Institute
  - USACE is perhaps the largest national “sediment broker” due to navigation mission and dredging
  - Question - how do we be good stewards of that sediment “currency”?









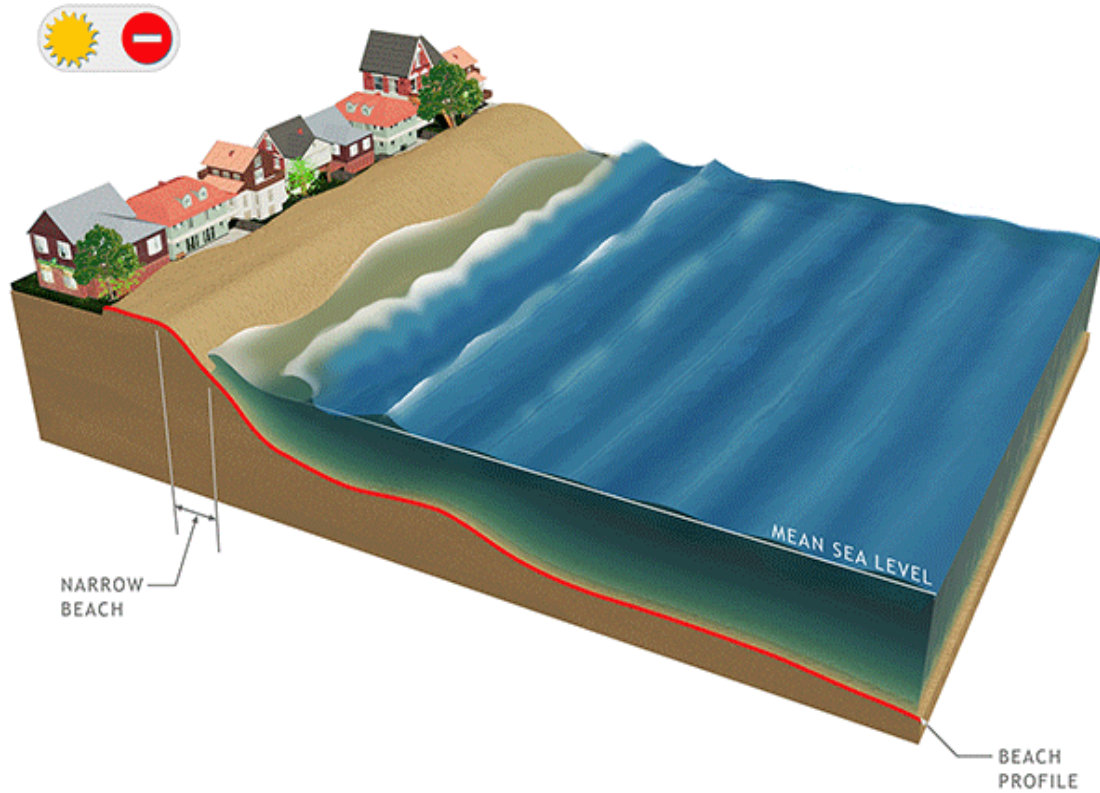
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# THE PURPOSE

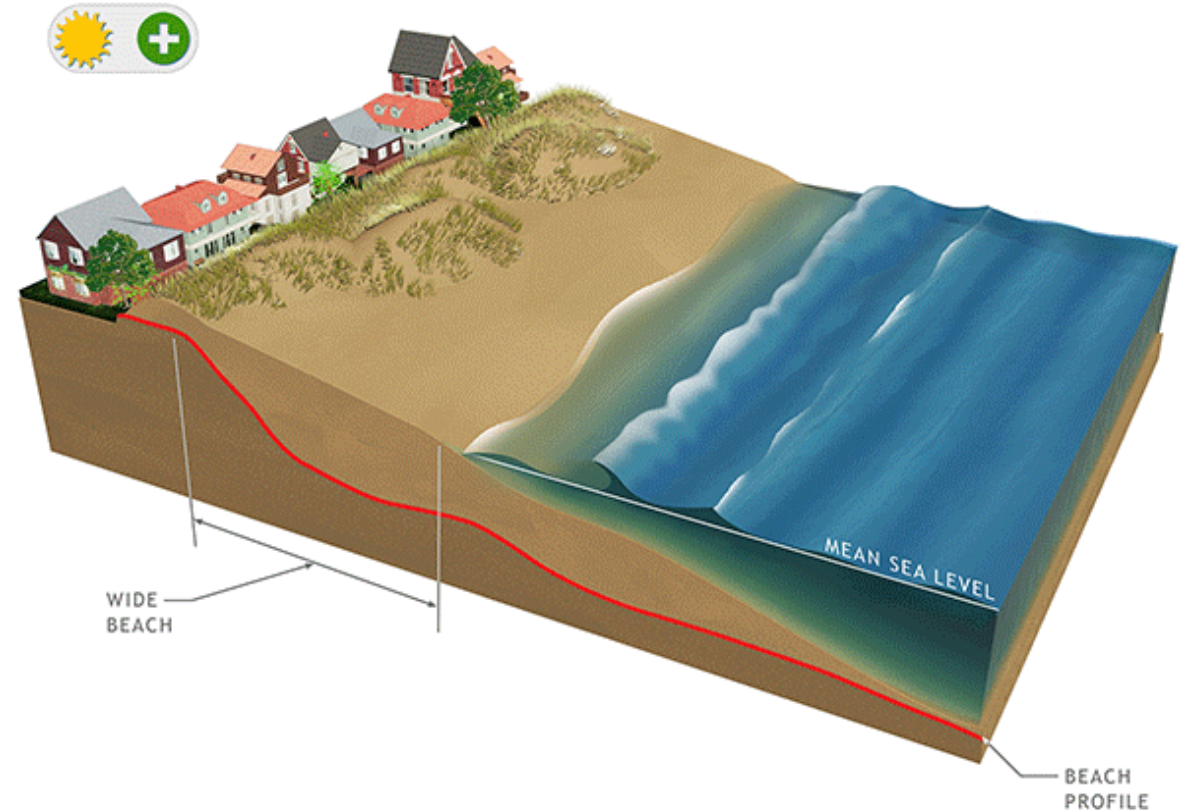
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Without engineered beach



With engineered beach + dune







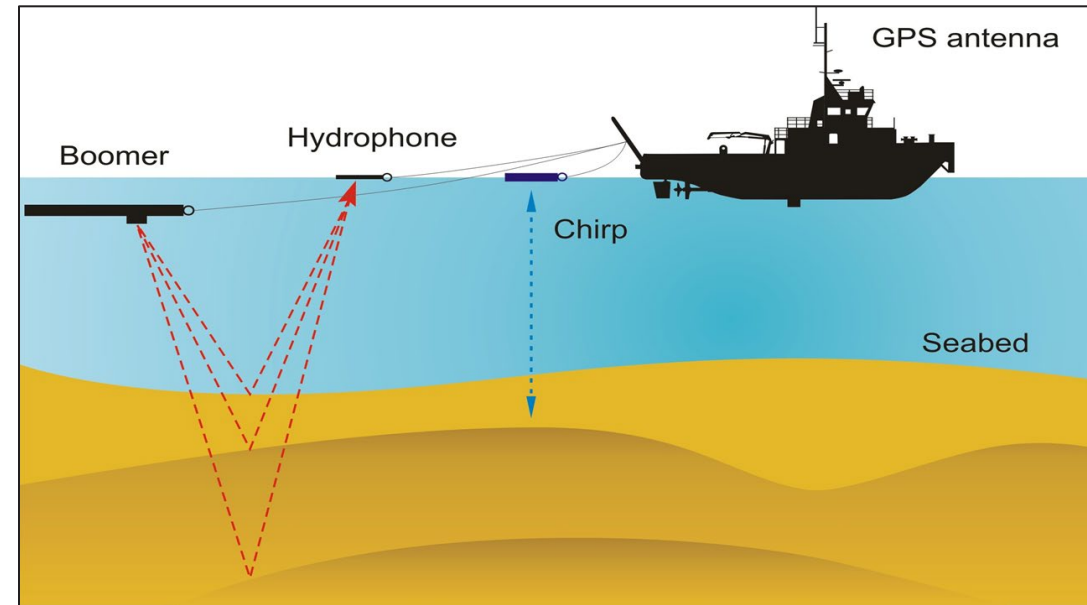
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# SAND RESOURCES – BORROW AREAS

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- Geophysical/Geotechnical Investigations
  - Geophysics
    - Cover large areas, short time frame
    - Provides location for Geotechnical Samples
  - Geotechnical
    - Vibracores, Grab Samples, & Test Pits

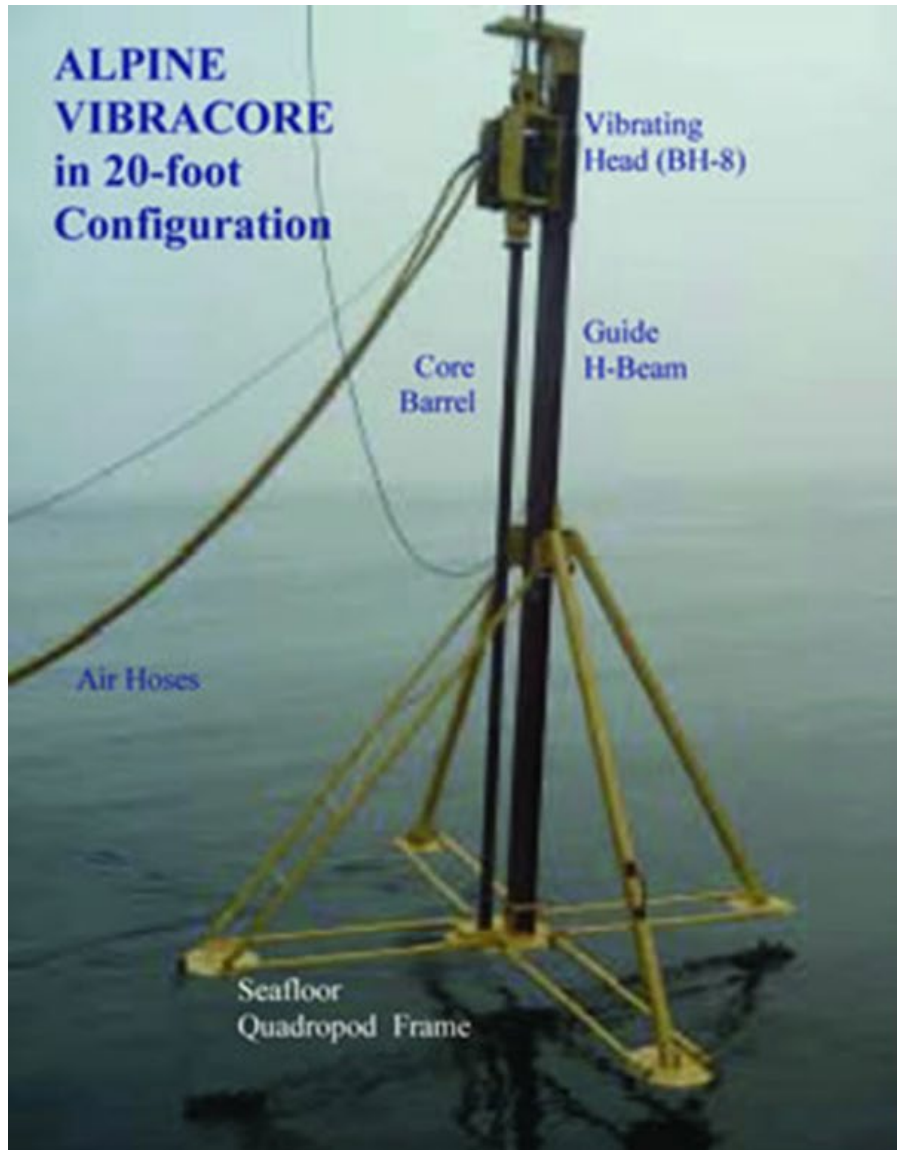




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# SAND RESOURCES – VIBRACORING

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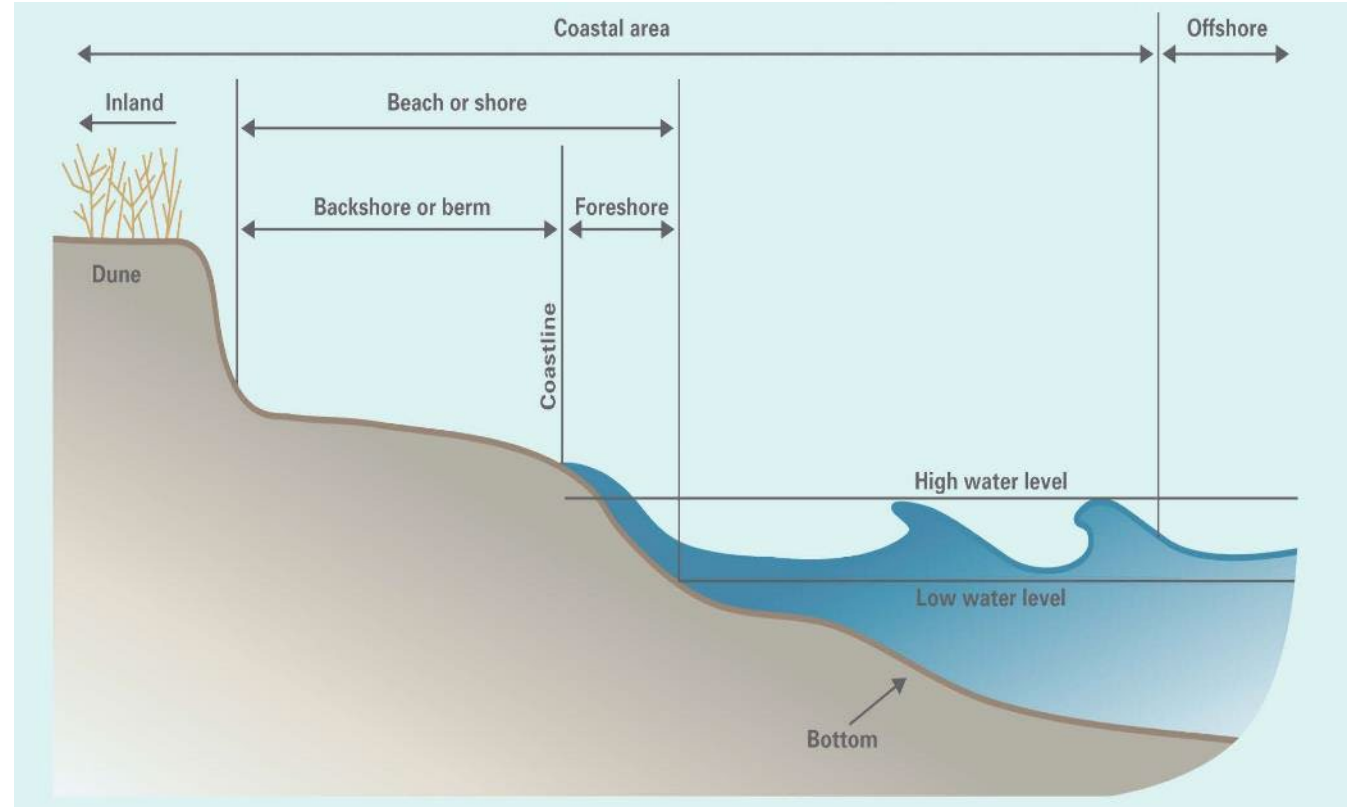




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# GROUND-BASED EQUIPMENT

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# MANASQUAN INLET TO BARNEGAT INLET PROJECT OVERVIEW

- **Design:**
  - 75-foot berm
  - Dune at elevation +22 feet (elevation, not height above adjacent infrastructure)
  - 4-year nourishment cycle (pending funding)
- **Timeline**
  - Authorized by Congress: 2007
  - Initial Construction: 2017-2019







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# STATUS UPDATE

- **Contract for periodic nourishment**
  - Advertised May 29, 2024
  - Bid opening June 28, 2024
  - Base bid includes 2.1 million cubic yards of sand
  - All our contracts includes options for additional sand
  - Dune repairs, crossover repairs, and dune grass plantings
  - Period of performance is 270 days





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# QUESTIONS?

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