



City of San Clemente

Victor Cabral, Mayor

Andy Hall, City Manager

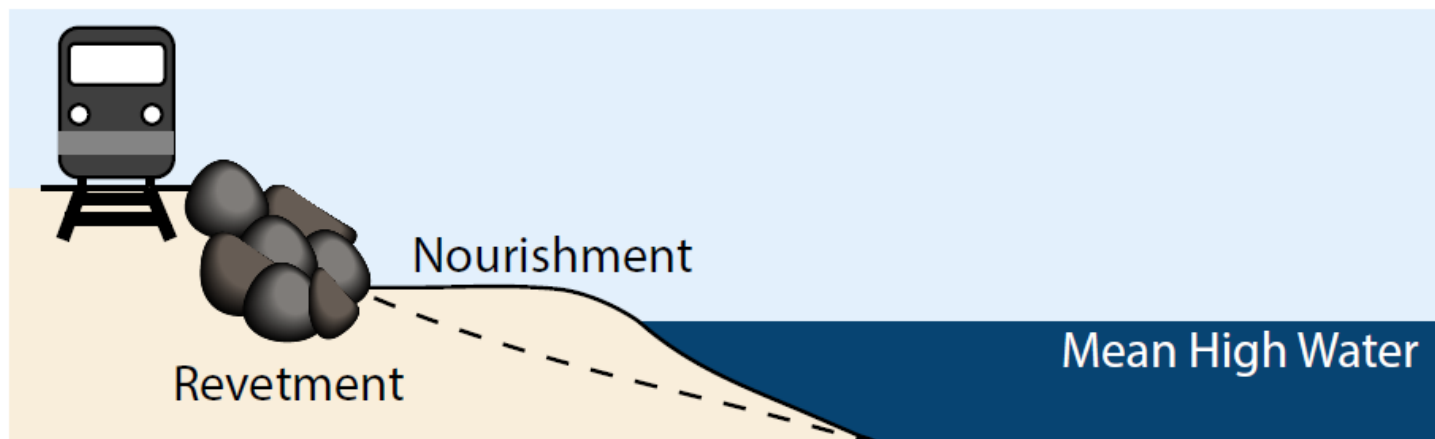
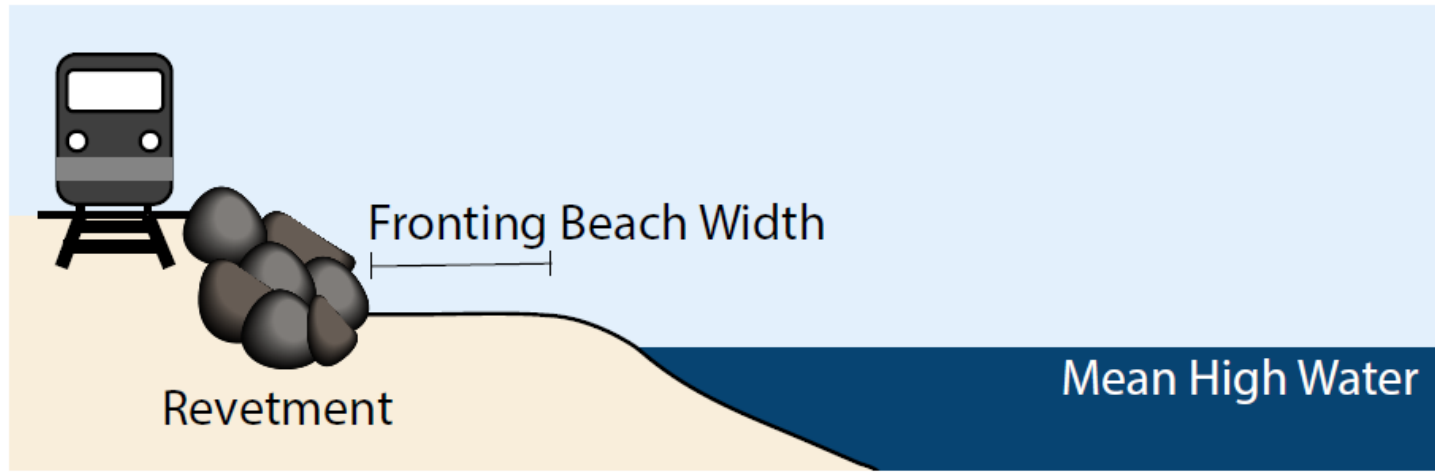




**Is there a different
approach to Coastal
Rail Line Protection?**



In the City of San Clemente, the coastal rail continues to be squeezed by the ocean to the west and the bluffs to the east





2008



2021

Solana Beach, CA

Before and After Sand Nourishment













THE OTHER SIDE
OF THE TRACKS





Quick Takeaways

- **Keeping the Rail Lines Open and Operating is Priority Number 1!**
- **Adequate sand is the best protection of the revetment**
 - **Emergency protection of the revetment should be permits to place sand, not to place rip-rap**
 - **Coordination with OCTA, City of San Clemente, State Parks, Private Owners and the California Coastal Commission is Necessary and all parties seem motivated to work together**
 - **Time is Critical – Preapproval to Place Sand in Key Locations Must be in Place**
- **The best protection from additional landslides is to reduce inundation through the placement of sand**
- **Innovative Bluff Protection Measures Must be Explored**