



Military Life's a Beach in San Diego, California

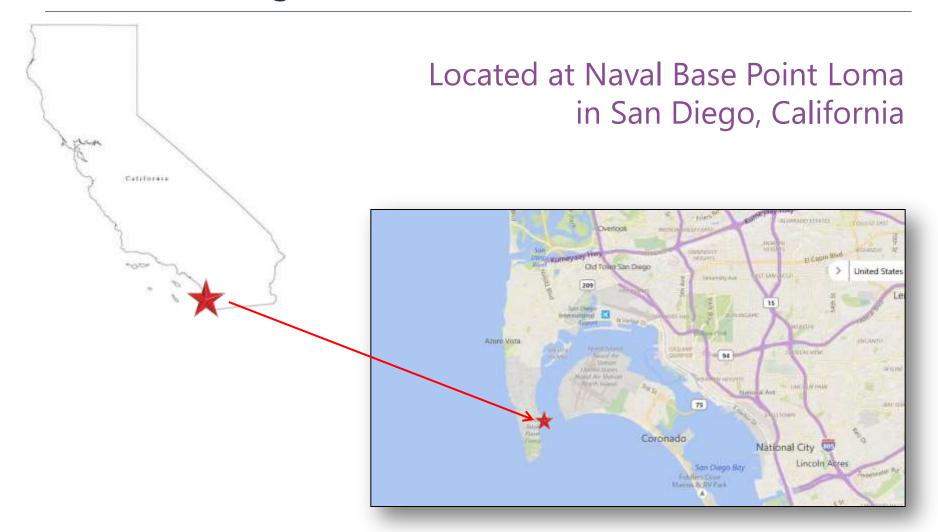
US Coast Guard and US Navy Collaborate to Dredge and Beneficially Reuse Sediments at Mooring Ballast Point, San Diego, CA

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USCG Mooring Ballast Point



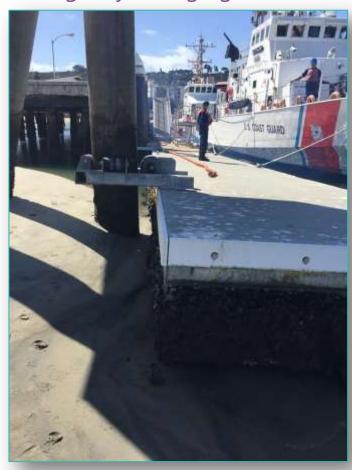
USCG Mooring Ballast Point

Predominant Current Movements



USCG Mooring Ballast Point

Emergency Dredging!





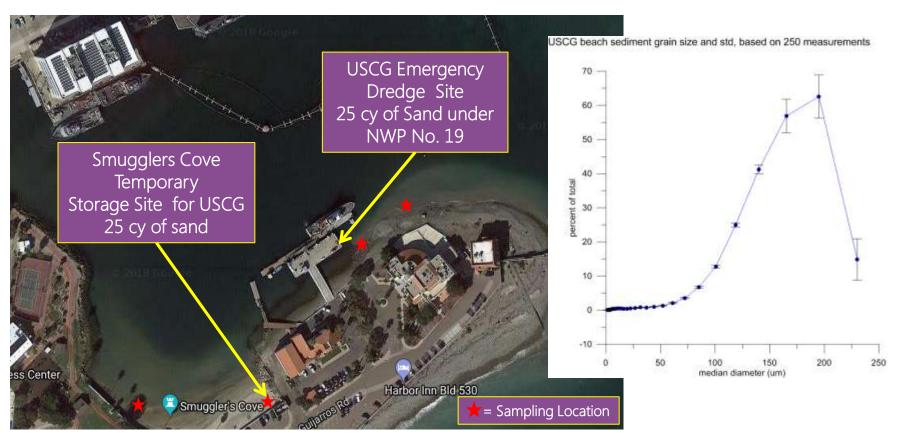


US Navy Smugglers Cove Beach Extent 2000 vs 2016



Hey USCG Sand! The Navy has a home for you!

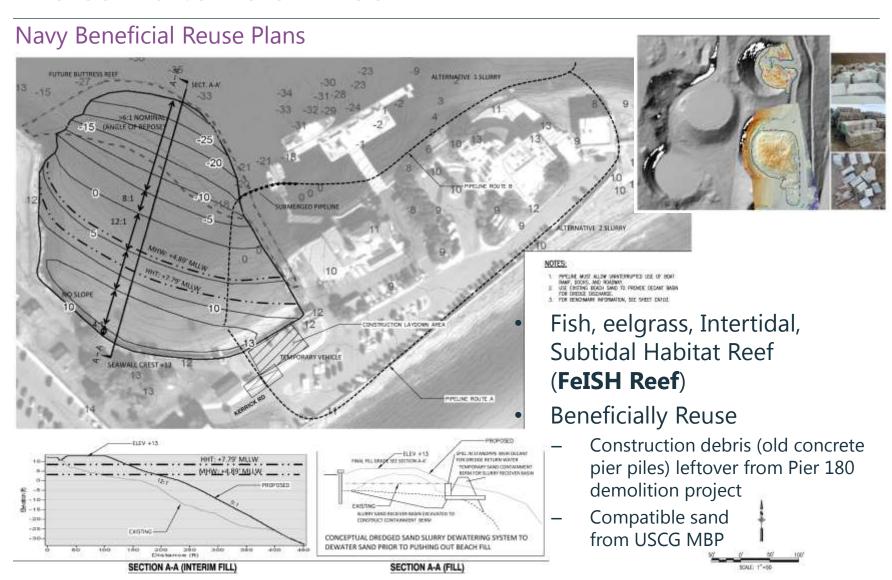
Emergency Dredging - Compatibility Match!





...maybe we can scheme up something more...?

Welcome to FeISH Reef!



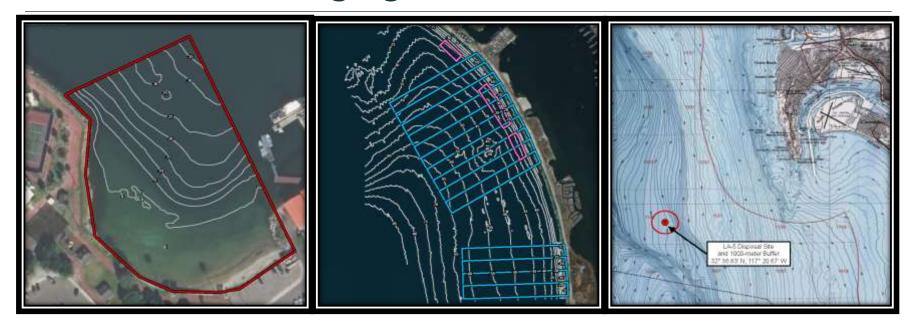
Collaboration and Consultations

But first...sediment characterization and permits

- USCG seeks a 10-year maintenance dredging permit from the USACE for events totaling 30,000 cy or less to a maximum depth of -30 feet MLLW
- USCG in need of a long-term placement option for future dredging events
- Emergency quick schedule and turn around necessary for sampling, analysis, and permitting!
- Contract awarded summer of 2018 for construction to conclude
 - before least tern season of March 2019.
- Let's work together!



USCG Mooring Ballast Point – Maintenance Dredging

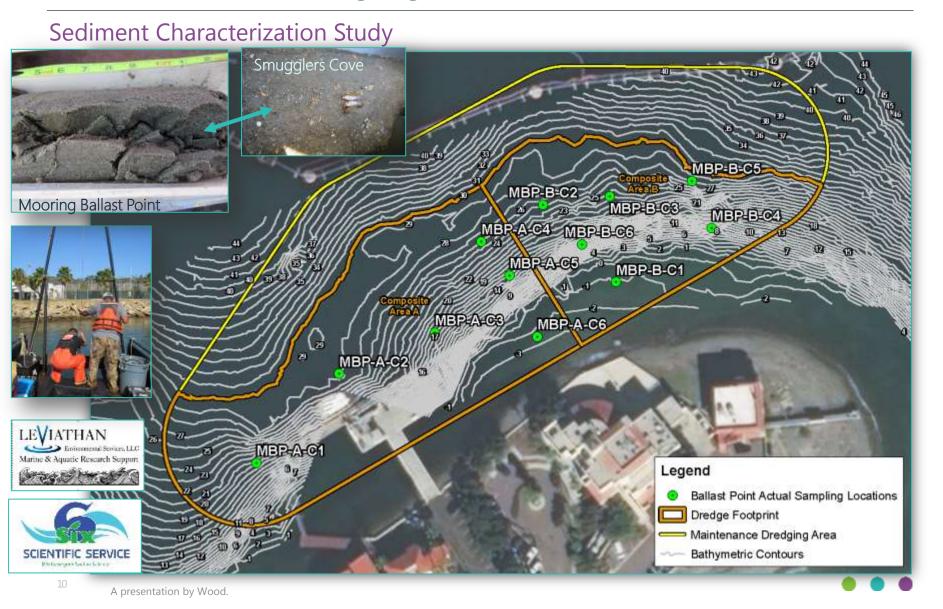


Sediment Investigation Performed in two parts

- 1. Preferred Disposal Option Tier II Nearshore Beneficial Reuse
 - Smuggler's Cove (2019)
 - Silver Strand Boatlanes (2019 and future)
- 2. Backup Plan Tier III Ocean Disposal



USCG Mooring Ballast Point – Maintenance Dredging



USCG Mooring Ballast Point – Maintenance Dredging



















- USCG MBP sediment is perfect for the FeISH Reef!
- The Navy and the USCG are very interested in collaboration.
 - Government shutdown presents potential delay in project progress.
 - Agencies and teams still working during shutdown do so closely to prevent set backs in schedule.

Interagency Hurdles

The Key to a Successful Project is Open and Constant Communication!

- Navy Approached USCG Early
- Navy Authorized USCG to use Silver Strand Boatlanes as backup
- Lots of Navy, USCG, and Dredger Discussions
- Lots of chats with the regulatory agencies
 - Possible joint permit and MOU was rejected in favor of individual permits
 - More work for the USACE but better for everyone – NO LAWYERS!



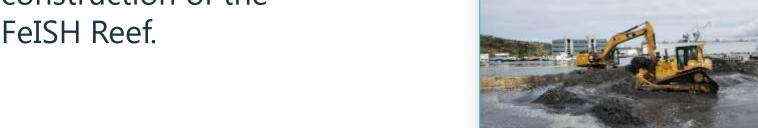




USCG Mooring Ballast Point – Maintenance Dredging Permits

Timing Critical to Project Success

- Permitting Responsibilities
 - USCG Dredging and Dredged Sediments
 - US Navy Temporary Placement and Construction of FeISH Reef
 - USCG plans include stockpiling of sediment at US Navy's Smuggler's Cove for future beneficial reuse in the
 - construction of the



USCG Mooring Ballast Point – Maintenance Dredging Activities





FeISH Reef Construction

Dredging and placement considerations:

- 1) Shallow depths
- 2) Structural integrity of pier
- 3) Underwater rip-rap
- 4) Beach grading
- 5) Storm drains







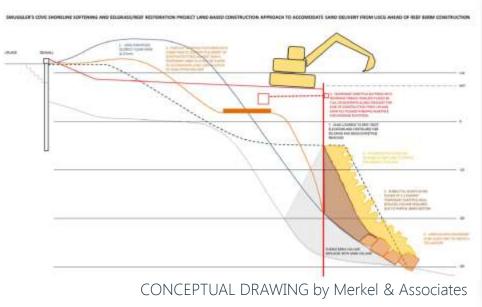


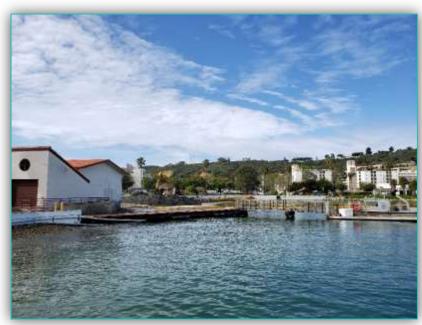




The Future of FeISH Reef

- Sediment still stockpiled at Smugglers Cove
- Navy has received permits for construction of FeISH reef and construction contractor mobilization is scheduled for November 20, 2019
- Will be an excellent new recreational area for USCG and US Navy families as well as tons of San Diego Bay critters!





wood.