



CURTIN
MARITIME

DREDGE SEDIMENT PLACEMENT 101

BENEFICIAL REUSE



SAFETY // EFFICIENCY

Curtin Maritime, Corp.
1500 Pier C St. Berth 57,
Long Beach, CA 90813

Phone: 562.983.7257
Email: info@curtinmaritime.com

www.curtinmaritime.com

Technology and Regulatory Advancements Have Helped Solve Some Long-Term Issues

- Greater Accuracy Digging to Design Depth
- Computer Technology Being Integrated into the Cranes and Other Dredging Equipment
- Continued Advancement of Dredging Software
- Vast Improvements in the Accuracy of Hydrographic Survey
- Improved Legislation for Permitting Process

Increased Environmental Controls to Protect Sensitive Habitats



- Greater Understanding of Dredging Impacts Based on Real World Studies
- More Comprehensive Soils Characterizations to Maximize Beneficial Reuse

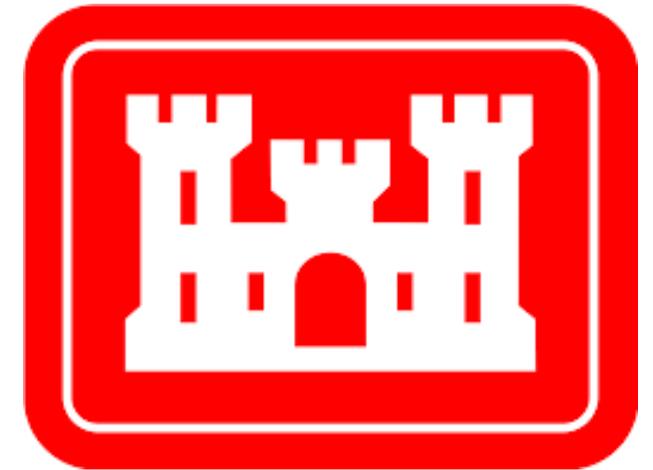
What is beneficial reuse of dredge sediment?

Why is it important?

What is driving the process?



Long Term Management Strategy (LTMS)



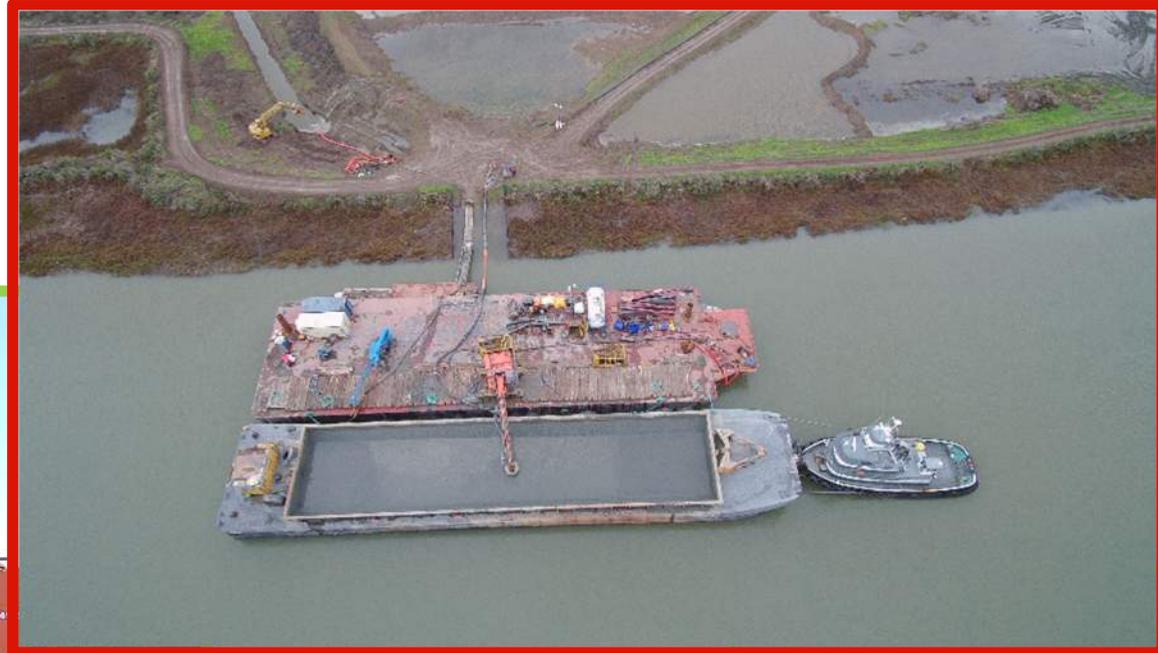
WHY DO WE DO IT?

- Significant Environmental Benefit From Upland Placement, Species Recovery, Shoreline Resilience
- Large Scale Habitat Restoration Being Realized
- Increased Water Quality In The Bay



HOW DO WE DO IT?







The dredge sediment is pumped hydraulically from the dump scow or hopper barge and placed into the selected cell. Material is pumped until design elevation is achieved.

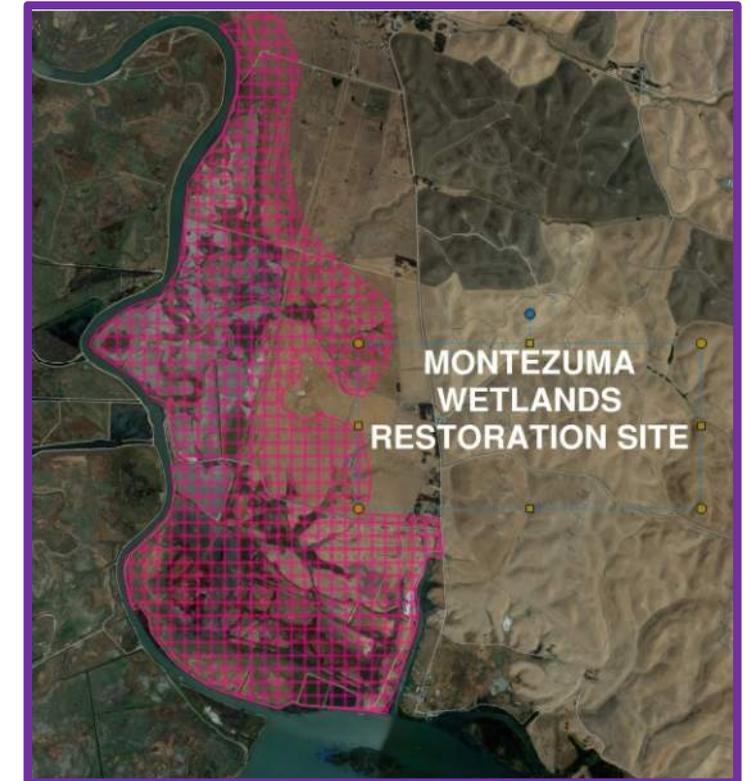
WHERE DO WE DO IT?



6 Million Cubic Yards



2.8 Million Cubic Yards



20 Million Cubic Yards



THE COST OF UPLAND PLACEMENT

- Permitting Cost
- Site Preparation and Infrastructure
- Labor and Equipment Cost
- Management of Site Throughout the Build Phase

Tipping Fees Charged by The Site Operators are Used to Cover These Cost.



THANK YOU

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