

Coastal Resilience

In San Francisco Bay



Coastal
Conservancy

STATE of CALIFORNIA

Beneficial Use of Dredged Material

**State Coastal Conservancy's
Section 1122 Proposal**

Section 1122 of WRDA 2016

Legislation Purpose

What:

- Section 1122 of WRDA of 2016 requires USACE to establish a pilot program to carry out 10 projects for the beneficial use of dredged material
- Implementation guidance (IG) signed by Acting ASA(CW) on Jan 3, 2018

Section 1122 of WRDA 2016 implementation considerations

“...the Secretary shall carry out the pilot program in a manner that...”

- **Maximizes the beneficial placement** of dredged material from Federal and non-Federal navigation channels;
- **Incorporates**, to the maximum extent practicable, **2 or more** Federal navigation, flood control, storm damage reduction, or environmental restoration projects;
- Coordinates the mobilization of dredges and related equipment, including **through the use of such efficiencies in contracting and environmental permitting as can be implemented under existing laws and regulations**; **Fosters** Federal, State, and local **collaboration**;
- **Implements best practices** to maximize the beneficial use of dredged sand and other sediments;
- Ensures that the use of dredged material is **consistent with all applicable environmental laws**.

Section 1122 of WRDA 2016

Pilot Project Cost sharing

- The **incremental costs above the Federal standard for transporting and depositing material from federal projects will be borne entirely by the Federal government**
- Costs for dredging additional material, dredging material from a non-federal navigation project or for **additional activities (e.g., wetland creation) must be cost-shared** according to Sec 204 of WRDDA 1992 as amended
- HQUSACE, in consultation with ASA(CW), will recommend funding sources for planning and implementation of each pilot project

Section 1122 of WRDA 2016

Pilot Projects Purposes

Examples:

- Reducing storm damage to property and infrastructure
- Promoting public safety

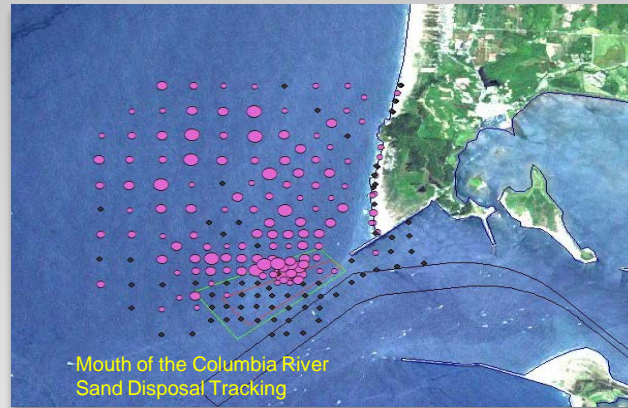


Section 1122 of WRDA 2016

Pilot Projects Purposes

Examples, Cont:

- Protecting, restoring, and creating aquatic ecosystem habitats
- Stabilizing stream systems and enhancing shorelines

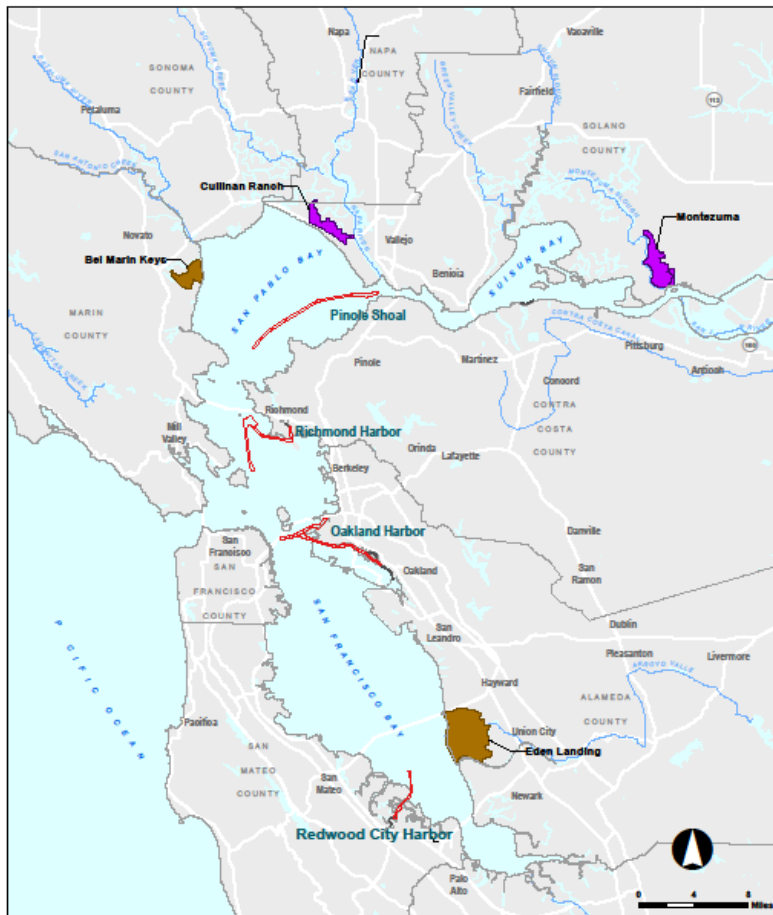


Section 1122 of WRDA 2016

Selection Criteria

HQ USACE Selection of 10 Pilot Projects

- **The environmental, economic, and social benefits of the projects, including monetary and non-monetary benefits**
- **The need for diversity of project types and geographical project locations**



SAN FRANCISCO BAY WIIN PILOT PROJECT

- Existing Placement Sites
- Future Placement Sites
- Dredge Sites

Conservancy Proposal

- Four deep water navigation channels that can provide 1.5 to 2.5 million cubic yards annually of valuable sediment necessary for the foundation for wetland protection, restoration and creation of four available restoration sites.
 - Two restoration sites that are fully permitted and operational and receiving dredged sediment now.
 - Two more restoration sites that are in final environmental review or permitting processes now and will come on-line in the next two to three years.
 - **AND Strategic Aquatic Placement of Dredged Sediment (Strategic Placement) Pilot.**

	Authorized or Regulatory Depth (feet below MLLW)¹	Historic Dredge Type	Typical Dredging Cycle (years)	Planning Volume per Episode (cy)	Federal Standard Site²
Oakland Inner and Outer Harbor	50	Clamshell Bucket	Annual	350,000 – 700,000	Ocean
Richmond Inner Harbor	41 authorized 38 maintained	Clamshell Bucket	Annual	350,000 – 400,000	Ocean
Outer Harbor	45	Hydraulic Hopper/ Clamshell Bucket	Annual	150,000 – 250,000	In-Bay Alcatraz
Redwood City Harbor	30	Clamshell Bucket (Harbor Channels)	1-2	300,000 – 600,000	In-Bay Alcatraz
Pinole Shoal	35	Hydraulic Hopper/ Clamshell Bucket	Annual	200,000 – 350,000	In-Bay San Pablo

Project	Volume Needed	Acres Restored
Cullinan Ranch	2.0 mcy	1,575
Montezuma (Phase 2)	4.5 mcy	1,880 (502 in Phase 2)
Bel Marin Keys	9.1 mcy	1,576
Eden Landing	7.2 mcy	2,300
Total	22.8 mcy	7,331 acres

Strategic Placement Project Elements	
Pilot Design	Identify site, design proposed pilot
Baseline Monitoring	Pre-tracer study; Post-pilot
Tracer Study	Independent mobilization of small scow
Modeling	Pre-tracer and Post-tracer study; Post-pilot
Small Pilot Project	Scows from routine maintenance project

Non-Federal Funds

- State Funds
 - General Fund
 - Park and Water Bonds
- Measure AA

Next Steps

- Pilot to the pilot at Redwood City Harbor
- Pilot Proposal decisions by Corps HQ and ASA(CW)
- Federal funding for pilot projects
- Application of non-federal funds

Thanks!

Amy Hutzel, Deputy Executive Officer



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