

RSM MEETING- WRDA 2020 SECTION 125 BENEFICIAL USE

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US Army Corps
of Engineers®



WRDA 2020 SECTION 125



This section renews the Congressional commitment to beneficial use (BU) of dredged material by:

- (a) establishing a national policy to maximize the beneficial use of material obtained from Corps projects; requiring the Corps to calculate the economic and environmental benefits of the beneficial use of dredged material when calculating the Federal Standard,
- (b) amending section 204(d) of WRDA 1992 to direct that other-than-least-cost placements of dredged material for certain purposes be funded using appropriations available for construction or operation and maintenance of the water resources development project producing the dredged material
- (c) increasing the number of beneficial use of dredged material demonstration projects to 35 projects,
- (d) directing the Corps to develop five-year regional dredged material management plans, and
- (e) emphasizing greater coordination across the Corps' dredging contracts.



WHAT IS BU- NAV



- Habitat Development
 - Marsh
 - Wetland
 - Wooded wetland
 - Upland
 - Island
 - Sea grass
 - Clam flats, oyster beds, mussel beds, other shellfish
 - Artificial reefs and underwater berms
- Beach and beach nourishment
- Parks and recreation
- Agriculture, horticulture, forestry, and aquaculture
- Strip mine reclamation, solid waste landfill and alt uses
- Multipurpose concepts
- Construction and Industrial/Commercial uses
 - Harbor and Port facilities
 - Residential and urban use
 - Airports
 - Dikes, levees, and containment facilities
 - Fill material and roads
 - Islands and historic preservation
-

- EM 1110-2-5025
- BU-RSM-EWN

- What are we counting?
- What are we not counting?
- How are we tracking?



BU TRACKING



<https://rsm.usace.army.mil/budb/>

RSM - Navigation Sediment Placement Regional Sediment Management

Summary | About this Application

Filters

To CLEAR all filters, press F5

FY Date Range
1998 - 2021

1998 - 2021
Set to minimum Set to maximum

Reset

District(s)
Show All

Navigation O&M Projects
All Projects

Placement Category
Both Beneficial Use Only
Disposal Only

Placement Type
All Placement

Note:
2020 & 2021 datasets are currently under review.
Data last updated 6/1/2021

BU = Beneficial Use D = Disposal

Dredge Events
 10,083

Total Volume
4.74B cy

Beneficial Use
40%
1.89B cy of 4.74B cy

4,799
BU Events

Disposal
60%
2.85B cy of 4.74B cy

5,284
Disposal Events

Project Rollup - % BU vs Avg Event Volume

Esri, FAO, NOAA | USACE | US Army Corps of Engineers | US Army Corps of Engineers, Mobile District Spatial Data Branch & ERDC-CHL
Powered by Esri

O&M Projects*

511

*Not filtered by Date or Placement

Project Summary

PercentBU
█ > 100
█ < 50
█ < 25

AvgEventVolume
● > 7,000,000
● 5,000,000
● 3,500,000

Total Volume Summary (cy)

- BU - Beach 229.4M
- BU - In-River 891.5M
- BU - Littoral 246.4M
- BU - Open Water 33M
- BU - Upland 200.2M
- BU - Wetland 287M
- D - In-River 647.6M
- D - Littoral 81.3M
- D - Open Water 1.1B
- D - Unknown 41M
- D - Upland 941.5M

Last update: a few seconds ago

Placement Summary | Volume/Year | % BU/D by Year | Placement by District | #Events | #Events/Year | All Event Details | % BU/D by Year 2



DIS BU SELECTION

Current DIS

DIS Production
Home > Disposal Job Maintenance

Change Jobkey | **Disposal Job Maintenance** | Disposal Site Maintenance | Job Project Maintenance | Environmental Windows |

Disposal Jobs

Select From Drop Down List:

* Indicates mandatory entry when creating a new record.

*Jobkey:

*Site Number:

Purpose:

Quantity:

Cost:

Beneficial Use Code:

- Aggregate - Construction
- Agriculture, Horticulture, Forestry
- Aquaculture
- Beach Nourishment
- Berms/Reef/Mounds SubAq
- Construction and Industry
- Erosion Cntl/Dike Levy Re
- Habitat Development
- Land Reclamation
- No Beneficial Use
- Other - Explain in Notes
- Parks and Recreation
- Remediation and Reclamation
- Shore Protection
- Solid Waste Applications
- Special Application
- Strip Mine Reclamation
- Toe of Bank Placement
- Wetland Creation
- Winter Road Maintenance

Change Date:



DIS 2.0

Home | Jobs | Reports | Dashboards

Contracted Job
2021 Columbia River S-1234 Channel Maintenance | Jobkey 21NWP025

Completion Summary | Job Notes

Pre-bid Information

- Required Job Information
- Schedule
- Planned Job Specifications
- Funding
- Solicitation

Post-bid Information

- Contractor Bids
- Contract Award
- Schedule

Completion Information

- Dredging
- Placement**
- Costs and Dates

Placement

Complete the form below to capture the how dredged material was managed.

* Indicates an important field

Total Dredging Quantity (Cubic Yards)

Calculated Placement Quantity (Cubic Yards)

Dredged Material Management by Placement Location

Please enter information about how dredged material was managed by placement location.

Placement Locations

<location name> • <coordinates>

* Dredged Material Placement Category

Placement Quantity (Cubic Yards)

<location name> • <coordinates>

* Dredged Material Placement Category

Placement Quantity (Cubic Yards)

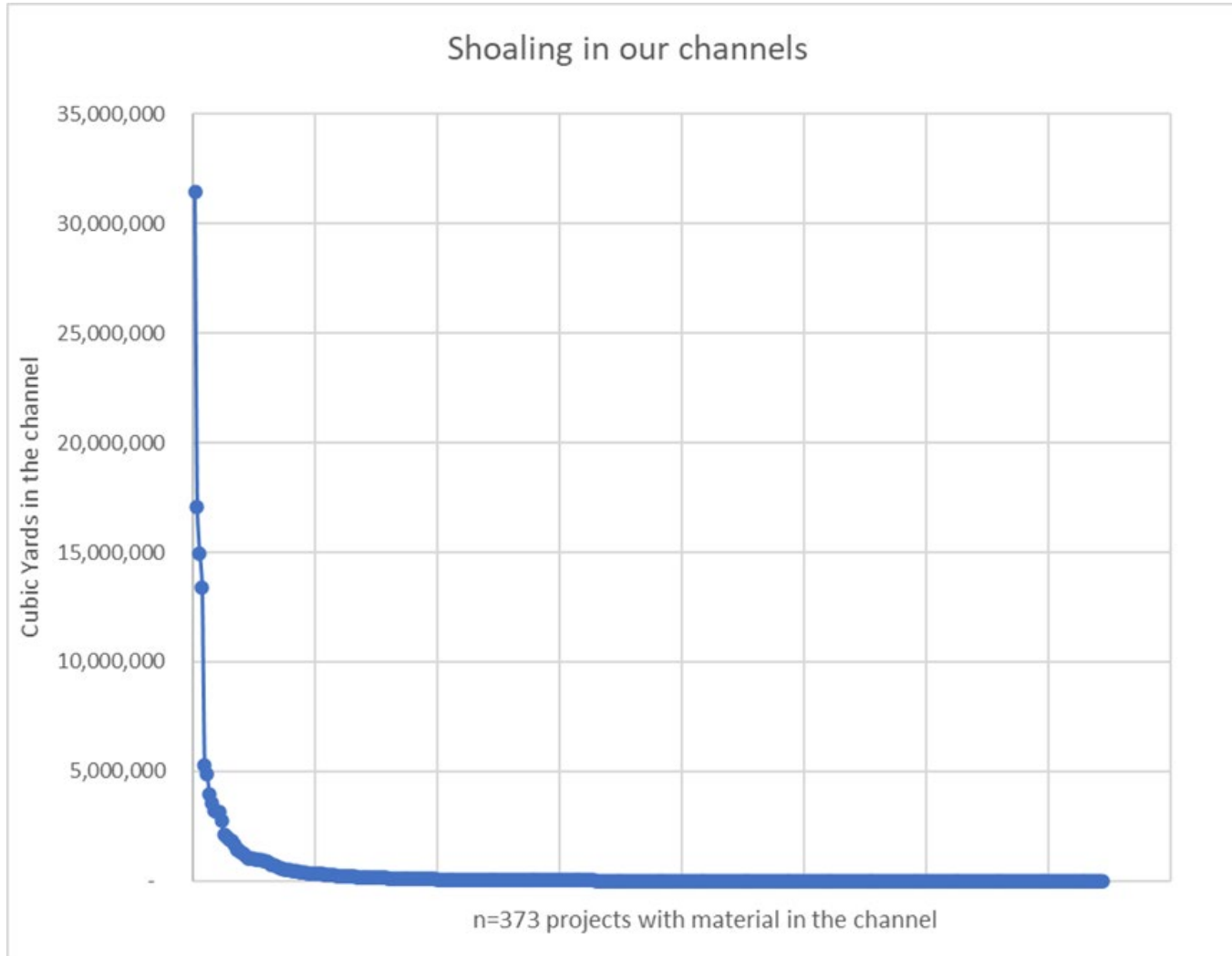
<location name> • <coordinates>

* Dredged Material Placement Category

Placement Quantity (Cubic Yards)



BU AND OUR PORTFOLIO – GOALS?



National channel framework/CSAT

*8% of our portfolio is 80% of sediment

Top 25 projects

Est. ~3-5% requires special handling and management due to contaminates



204(D) VS 125



204(d) CAP- USACE can pay over the FS, cost shared with the sponsor with the delta paid from CAP

- must be in feasibility
- very engineered placements
- no O&M – one and done
- limited by \$

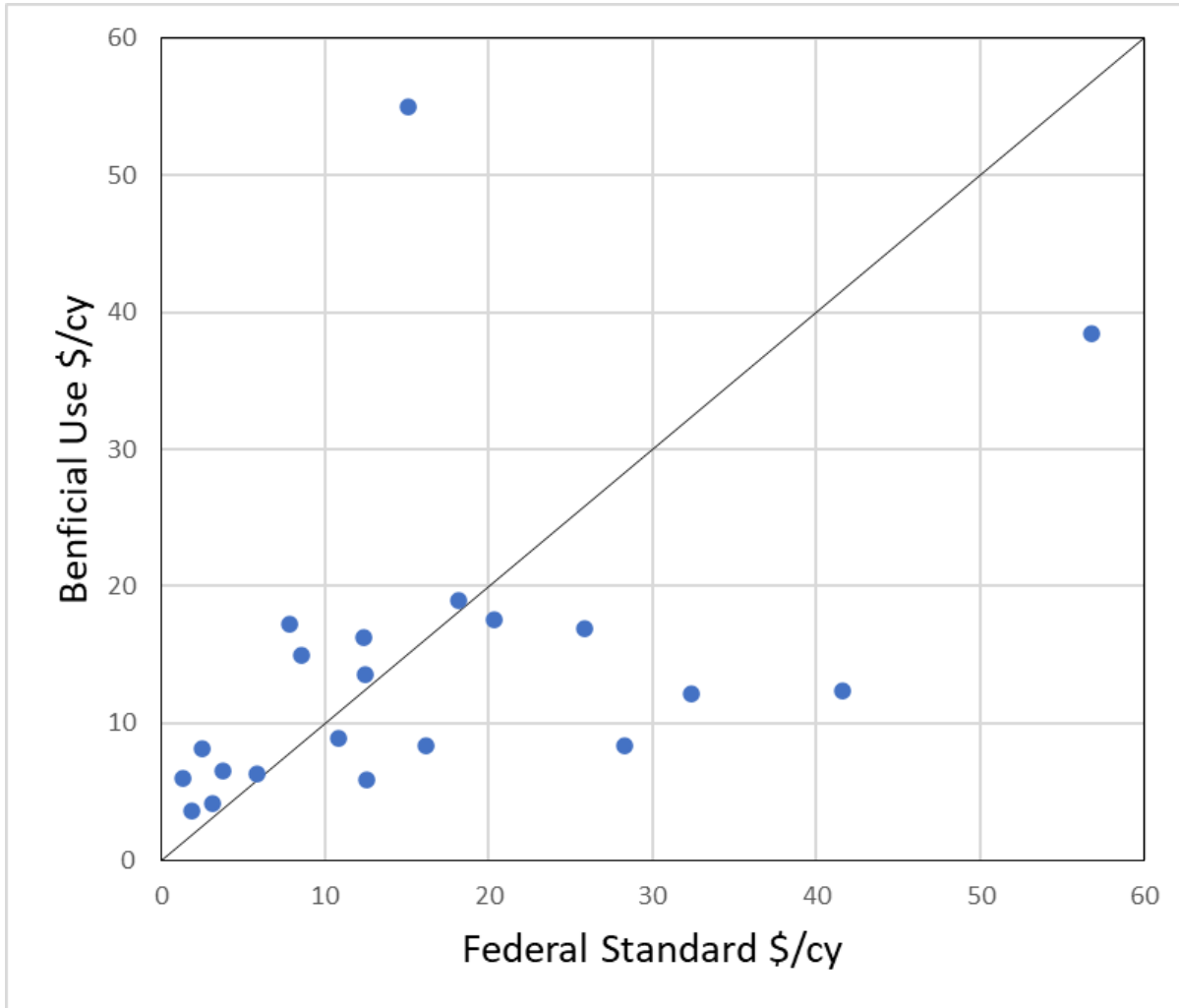
125 – USACE can pay over the FS, no established cost share [adopt 204(d)], overage can come from the O&M/Construction account

- start it any phase of the dredging cycle
- temporary vs permanent placement
- exercise in opportunity—ready to accept material at go time?

- FY22 \$4.3B O&M budget ... and \$11B in O&M packages
- How do you all as USACE leaders get stakeholders invested in making BU economical?



BU AND OUR PORTFOLIO



- Not including all the economic/enviro benefits



5- YR DMMP



All projects have a preliminary assessment or DMMP

Break into the dredging cycle for BU...

You know your portfolio - project dredging cycles, typical volumes, FS placement costs, general sediment characteristics, etc.

Think: just adding placement sites to the portfolio
operational
regional, across BLs and projects
stakeholder involvement

You don't have to have RE and Enviro coordinated now- look out 5 yrs and lay out how to get there

Lean in with our ERDC partners: RSM, EWN, tool suite



PATH FORWARD



- Leadership to set national goals for beneficial use
- Reaffirm definition of beneficial use outlined in Engineer Manual 1110-2-5025
- Establish reporting metrics in the Dredge Information System and increase prominence via RSM BU database
- Issue guidance for Section 125
 - include economic and environmental benefits
 - increase stakeholder engagement
 - submit budget packages (in PDM)
- Identify and address challenges
 - Real estate, timing, funding, environmental coordination
 - Memorandums of Agreement for rapid execution
- Align multiple efforts
 - Revolutionize USACE BU Tiger Team
 - ERDC Engineering with Nature and Regional Sediment Management
 - 1122 execution



Baltimore District, Stakeholder Engagement and BU projects

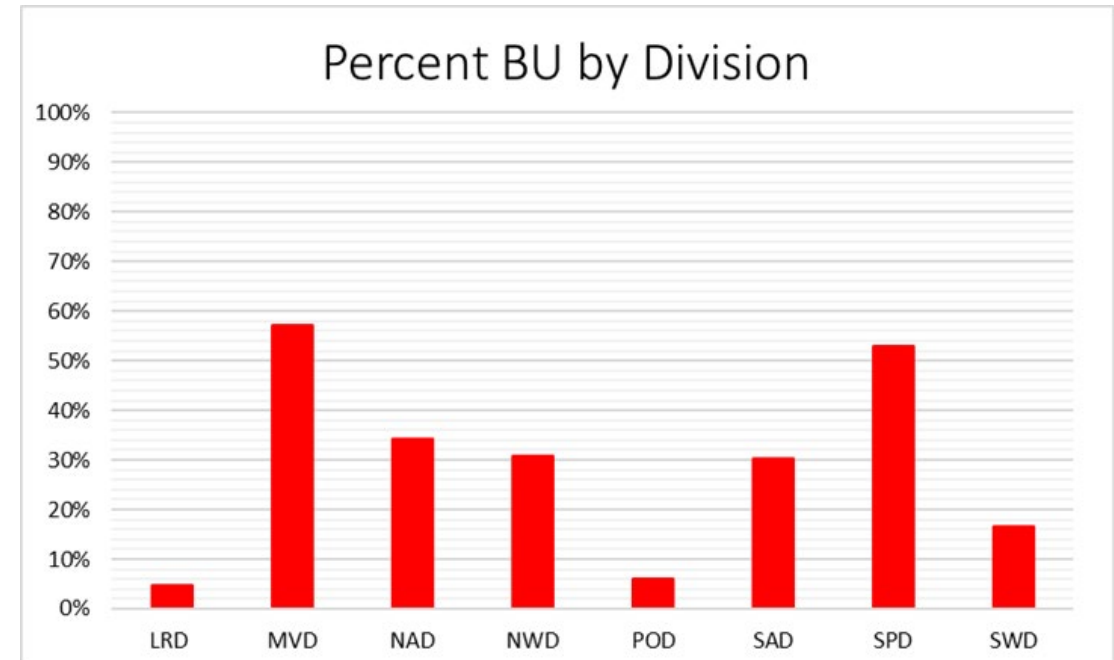




WHAT CAN YOU DO TODAY?



- DMMP's underway or for mod: The DMMP lays out the 20 yr guaranteed placement option and establishes Fed Std. Per Sect 125 if stakeholder engagement identifies an alternative that is equal to or less than the Fed Std and retains capacity or has greater benefit- it can be used.
- Increase stakeholder engagement
- Track BU better in DIS -> BU database
- Deeper dive into economics
- Communicate and elevate obstacles to MSCs/HQ
- Be creative





BU REFERENCES



DOTS Beneficial Uses of Dredged Sediment: <https://budm.el.erdc.dren.mil/index.html>

Regional Sediment Management, Beneficial Use Database: <https://rsm.usace.army.mil/budb>

Dredging Information System: <https://dredging.usace.army.mil/lpwb/f?p=116>

Engineering with Nature: <https://ewn.el.erdc.dren.mil/>

Revolutionize USACE: <https://www.usace.army.mil/Missions/Civil-Works/Infrastructure/revolutionize/>

