# FY20 RSM IPR RSM Beneficial Use Database Michael Hartman, Jennifer Brown, Eve Eisemann



**BLUF:** This project inventories USACE navigation dredging projects to determine the extent to which RSM goals, specifically, the beneficial use of dredged material, is being achieved across USACE at the project, district, division, and national levels.

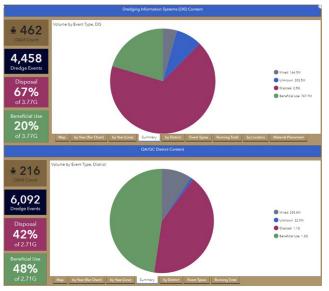
#### **Challenge/Objectives**

- DIS placement type ambiguity; greater granularity needed
- Disparate data sources & categorization
- Compilation requires synthesis of data
- QA/QC of data, labor intensive

## Approach

- Building on past years' progress
- Ingest DIS data
- Use Python scripting for initial refinement
- Interview QA/QC efforts





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## **District/Other USACE PDT Members**

- USACE-IWR NDC
- Rose Dopsovic, SAM OP-J
- USACE District Collaborators

### Leveraging/Collaborative Opportunities

- Elko Coastal Consulting & APTIM
- USACE-IWR NDC Team

Total Volume by Yea 400M 350M 300M (0 230M 103.4M 100M 100M 100M 108.3M

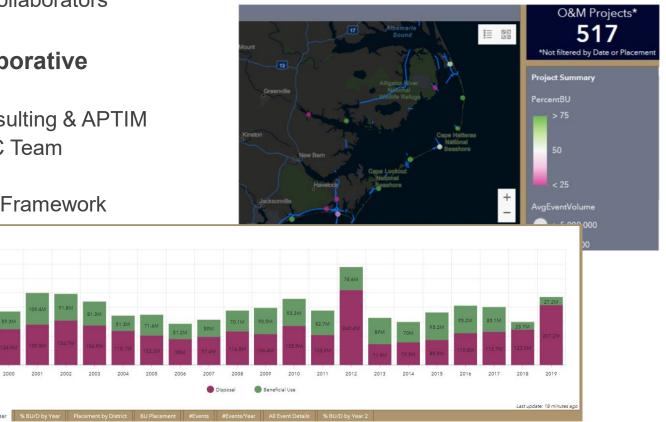
- SBAS
- National Channel Framework

1008

1000

## Stakeholders/Partners

- Dr. Katie Brutsché, RSM Program Manager
- USACE Districts, Divisions, and HQ



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#### Accomplishments/Deliverables

- Updates to the Web Application: <u>https://arcg.is/1SG8b4</u>
  - Improved visualizations and charting capabilities
- Incorporated FY19 records from DIS/NDC
- Improved processing tools and documentation
- Additional remote training session with tool developer

### **Outstanding Items**

- Additional QA/QC of FY19 data
- Review new records with Districts

### **Lessons Learned**

- District collaboration is extremely valuable!
- District project identification and BU coding in DIS is challenging; DIS update in progress. Incorporating future years should get easier.

Yearly Summary by Project				
Barnegat Inlet - NAP				
1999	Beneficial Use (cy)	Disposal (cy)		
Littoral	0	0		
	2 event(s)	event(s)		
In-River	0	0		
	event(s)	event(s)		
Upland	0	150,355		
	1 event(s)	event(s)		
Open Water	0	0		
	event(s)	event(s)		
Unknown	N/A	0		
		event(s)		
Beach	0	N/A		
	event(s)			
Wetland	85,000	N/A		
	event(s)			
SUBTOTAL	85,000 cy	150,355 cy		
TOTAL	235.355 ev			

Project Summary Totals, 1998 - 2019				
Houston Ship Channel (O&M) - SWG				
Year(s) Authorized: 1998-2016	Volume	Volume Type	# Events	
18 Year(s) Active 19 Year(s) Authorized	<b>128,149,596 cy</b> 7,119,422 cy 3,203,740 cy 6,744,716 cy	Total Volume Avg Vol/Active Year Avg Vol/Event Avg Vol/Authorized Year	40	
Beneficial Use Disposal	54,847,709 cy 73,301,887 cy	43% 57%	10 30	

## FY20 RSM IPR RSM Beneficial Use Database

What challenges did you face to get your project to implementation and how did you move past them? If not yet implemented, what is your path forward to construction?

Challenge: Obtaining DIS records

- Periodically checking the website for updates
- Ultimately obtained results through networking
- In the future, we will try to use the custom report generation via DIS Portal

# How is this project benefiting the USACE and Nation?

Having an enterprise database solution with an interactive viewing capability makes this data more accessible and supports the spread of beneficial use strategies nationally.

