

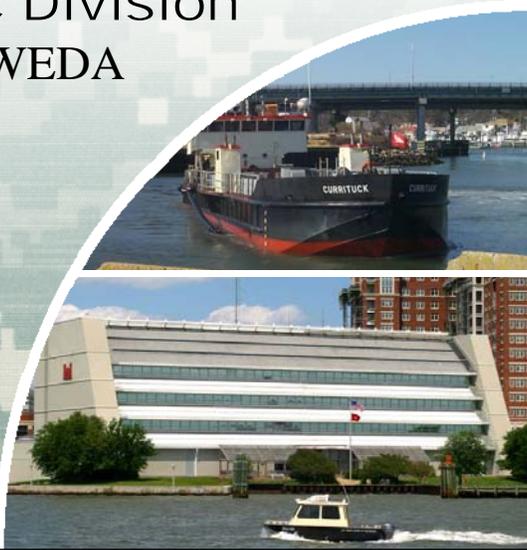
# Norfolk District North Atlantic Division Eastern Chapter of WEDA Fall Conference

October 11, 2011

Kristin Mazur



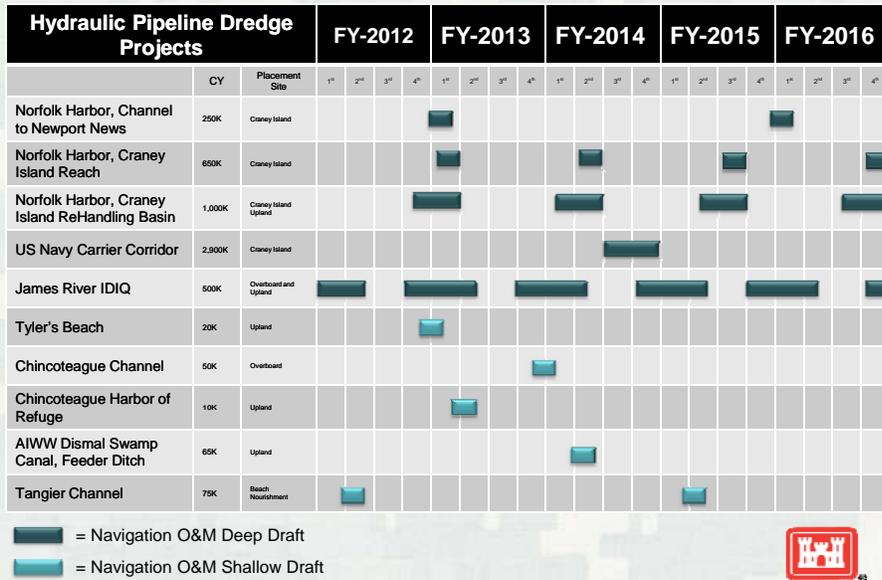
US Army Corps of Engineers  
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- **5-Year Dredging Schedule (By dredge type)**
  - Hydraulic Pipeline
  - Hydraulic Pipeline Shallow Draft
  - Hopper
  - Mechanical
  - Special Purpose
- **FY 12 Dredging Projects Overview**
- **FY 12 Dredging Projects (By dredge type)**
  - Hydraulic Pipeline
  - Hopper
  - Special Purpose



## 5-Year Dredging Schedule

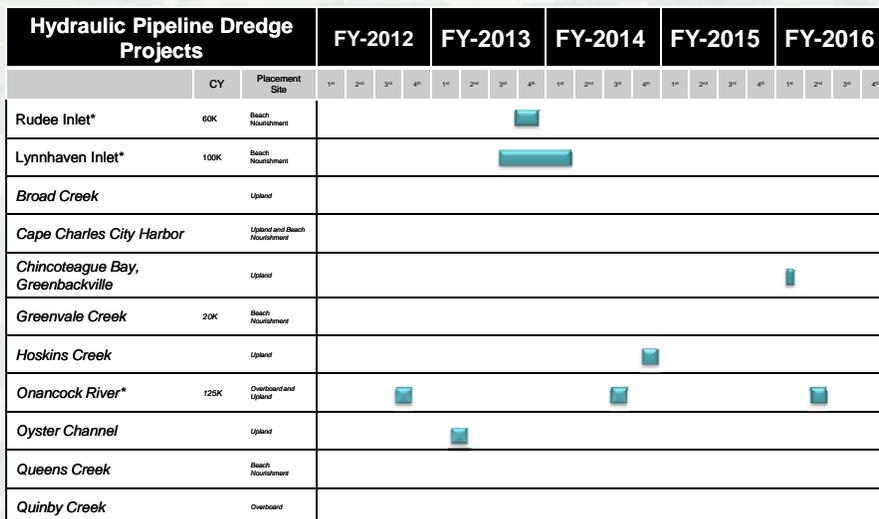


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3

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## 5-Year Dredging Schedule



*These projects are not funded in FY12, however, have very active local sponsors.*

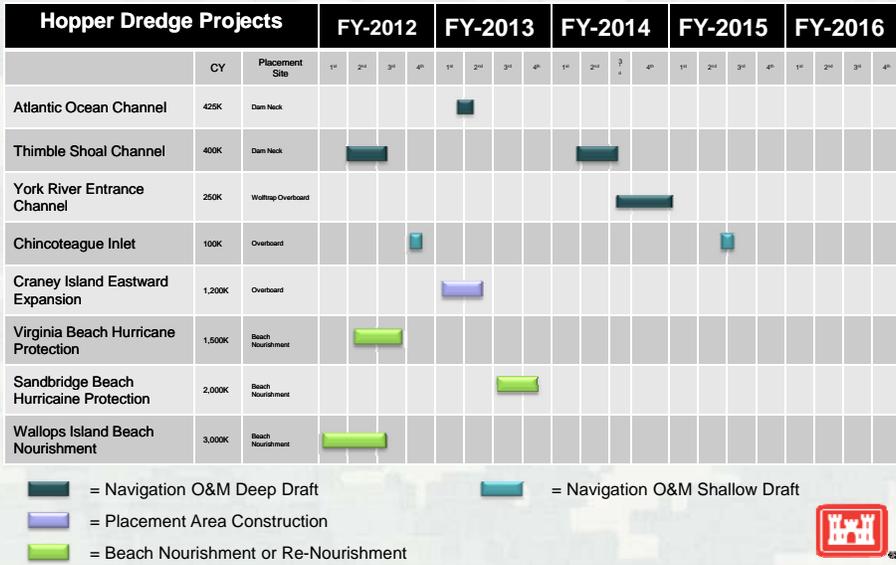
\* Also Dredged by USACE Dredge Plant

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4

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## 5-Year Dredging Schedule



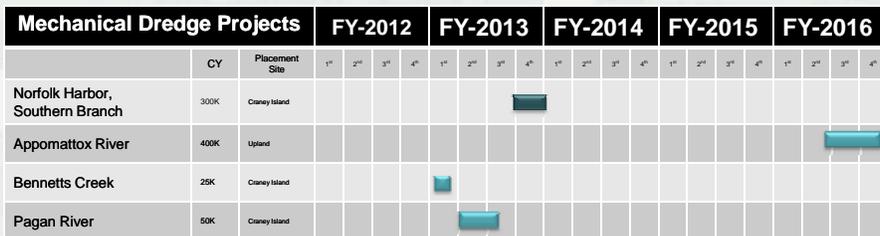
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5

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## 5-Year Dredging Schedule



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6

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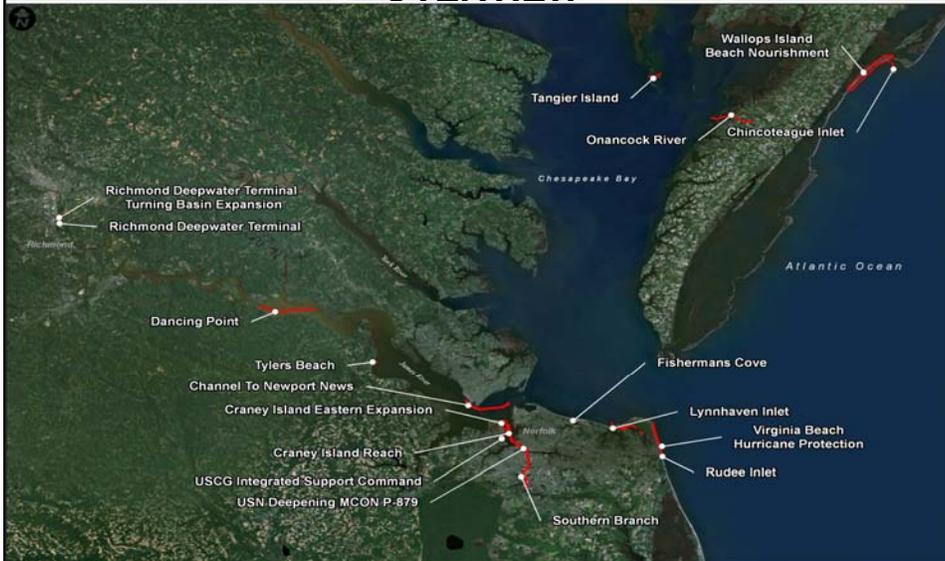


## 5-Year Dredging Schedule

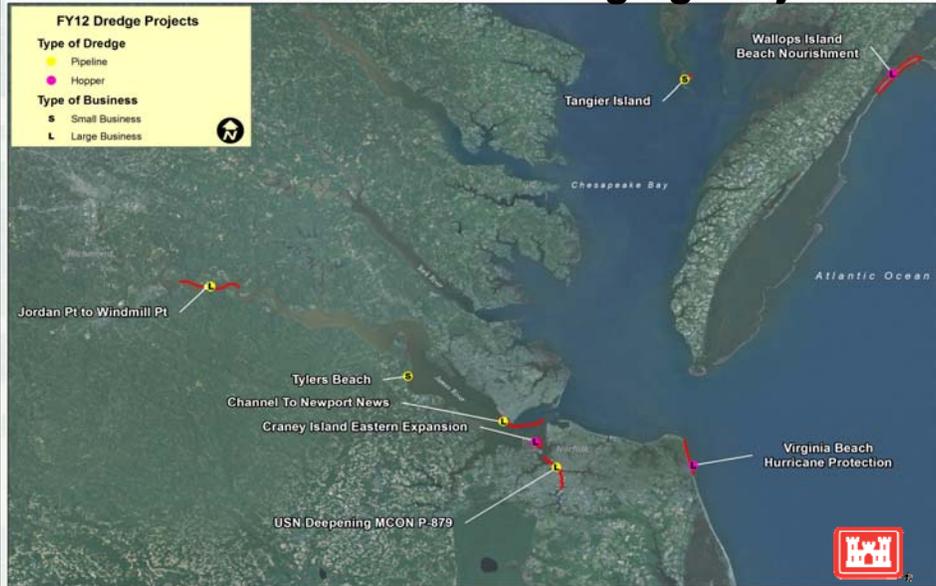
Special Purpose Corps Dredge Currituck			FY-2012				FY-2013				FY-2014				FY-2015				FY-2016					
	CY	Placement Site	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>		
Rudee Inlet	20K	Overboard	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Lynnhaven Inlet	30K	Overboard	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Chincoteague Inlet	50K	Overboard			■	■			■	■			■	■			■	■			■	■		
Bennetts Creek	10K	Crane Island																						
Pagan River	10K	Crane Island																						
Onancock River	30K	Overboard																						



## Norfolk District Dredging Projects OVERVIEW



## Norfolk District FY12 Dredging Projects



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9

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## Norfolk District FY-12 Dredging Program SCHEDULE OF PROJECTS

Hydraulic Pipeline Dredge Projects	2011		FY-2012										2013	
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Norfolk Harbor, Channel to Newport News														250K
Norfolk Harbor, Crane Island Rehandling Basin														1000K
Tangier Channel		Crabs	85K								Crabs			
James River, Dancing Point-Swann Point														225K
James River, Tribell Shoal														150K
James River, Jordan Point –Windmill Point											Anadromous Fish			100K
Tyler's Beach														250K

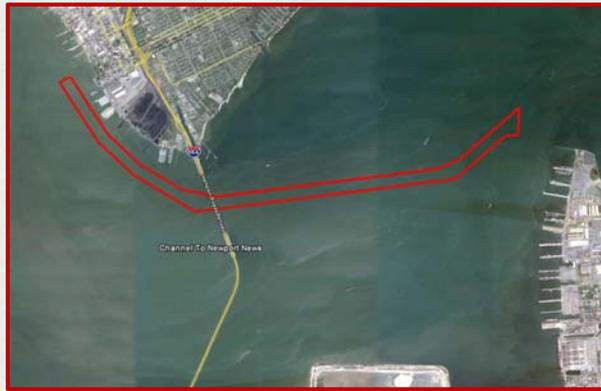
Time-of-Year Restriction

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## Channel to Newport News

- **Project Depth:**  
50'
- **Estimated Quantity:**  
250,000 cy
- **Material Type:**  
Fine-grained,  
Maintenance
- **Dredge Type:**  
Pipeline
- **Advertisement Date:**  
6 July 2012
- **Bid Opening Date:**  
7 August 2012
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7584

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11

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## Norfolk Harbor Craney Island Rehandling Basin

- **Project Depth:**  
18' – 30'
- **Estimated Quantity:**  
1,000,000 cy
- **Material Type:**  
Course and  
Fine-grained,  
Maintenance
- **Dredge Type:**  
Pipeline
- **Advertisement Date:**  
27 July 2012
- **Bid Opening Date:**  
26 August 2012
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7584

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12

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## Tangier Channel

- **Project Depth:**  
7' – 8'
- **Estimated Quantity:**  
75,000 cy
- **Material Type:**  
Fine and Course-grained,  
Maintenance
- **Dredge Type:**  
Pipeline
- **Advertisement Date:**  
11 July 2011
- **Bid Opening Date:**  
31 August 2011
- **Seasonal Restrictions:**  
1 May –  
30 September



Project Manager: (757) 201-7616

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13

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## James River Dancing Point – Swann Point Shoal

- **Project Depth:**  
25'
- **Estimated Quantity:**  
250,000 cy
- **Material Type:**  
Fine-grained,  
Maintenance
- **Dredge Type:**  
Pipeline
- **Advertisement Date:**  
N/A (Task Order 1)
- **Bid Opening Date:**  
N/A (Task Order 1)
- **Seasonal Restrictions:**  
15 February –  
30 June



Project Manager: (757) 201-7788

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14

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## James River Tribell Shoal Channel

- **Project Depth:**  
25'
- **Estimated Quantity:**  
165,000 cy
- **Material Type:**  
Fine-grained,  
Maintenance
- **Dredge Type:**  
Pipeline
- **Advertisement Date:**  
N/A (Task Order 1)
- **Bid Opening Date:**  
N/A (Task Order 1)
- **Seasonal Restrictions:**  
15 February –  
15 June



Project Manager: (757) 201-7788

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15

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## James River Jordan Point – Windmill Point

- **Project Depth:**  
25'
- **Estimated Quantity:**  
100,000 cy
- **Material Type:**  
Fine-grained,  
Maintenance
- **Dredge Type:**  
Pipeline
- **Advertisement Date:**  
N/A (Task Order)
- **Bid Opening Date:**  
N/A (Task Order)
- **Seasonal Restrictions:**  
15 February –  
30 June



Project Manager: (757) 201-7788

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16

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## Tylers Beach

- **Project Depth:**  
6'
- **Estimated Quantity:**  
25,000 cy
- **Material Type:**  
Coarse & Fine-grained,  
Maintenance
- **Dredge Type:**  
Pipeline
- **Advertisement Date:**  
5 August 2012
- **Bid Opening Date:**  
6 September 2012
- **Seasonal Restrictions:**  
15 February –  
15 June



Project Manager: (757) 201-7861

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17

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## US Navy Deepening

- **Project Depth:**  
47' - 50'
- **Estimated Quantity:**  
3,000,000 cy
- **Material Type:**  
Fine- and Course-grained,  
New Work
- **Dredge Type:**  
Pipeline
- **Award Date:**  
29 March 2011
- **Physical Completion Date:**  
8 Sept. 2011
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7385

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18

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## Project Purpose

- Navy carriers require direct access to NNS and Lambert Point
- Current Depths do not meet minimum requirements
- Sediment clogs cooling systems
- Only movement during high tide
- Safety!



USS Harry S. Truman  
(CVN-75)



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## Project Description



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## Special Work Requirements

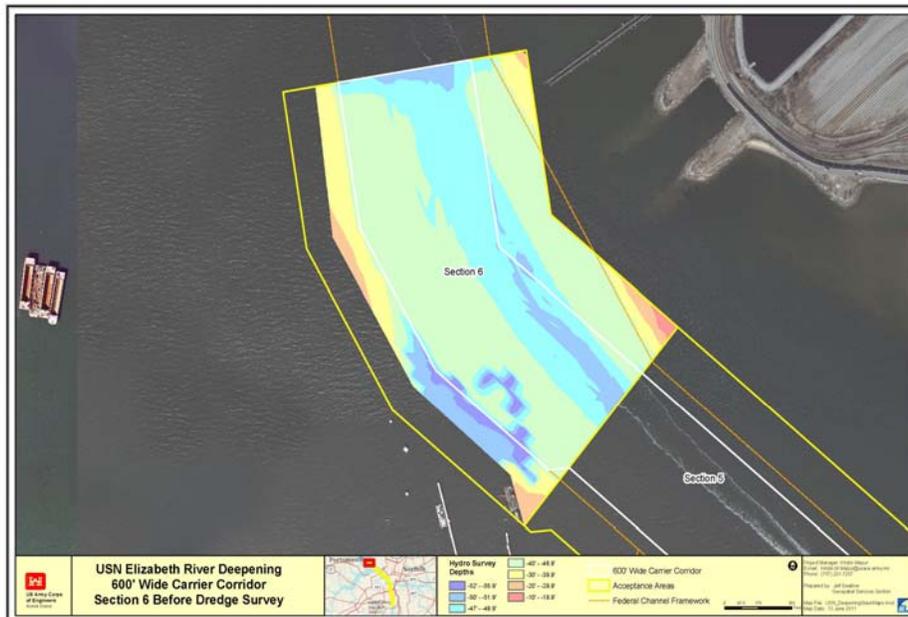
- U.S. Coast Guard Requirements – Aids to Navigation.
- Impacts to Port and Vessel Traffic.
- Significant and numerous Utility Crossings.
- Coordination with the Maritime Industry (US Navy, Virginia Pilots, Tug Pilots, VIT, NIT, VPA, USCG ).
- Dredging adjacent Secure and Restricted Areas.
- Stability of Near Shore Structures.



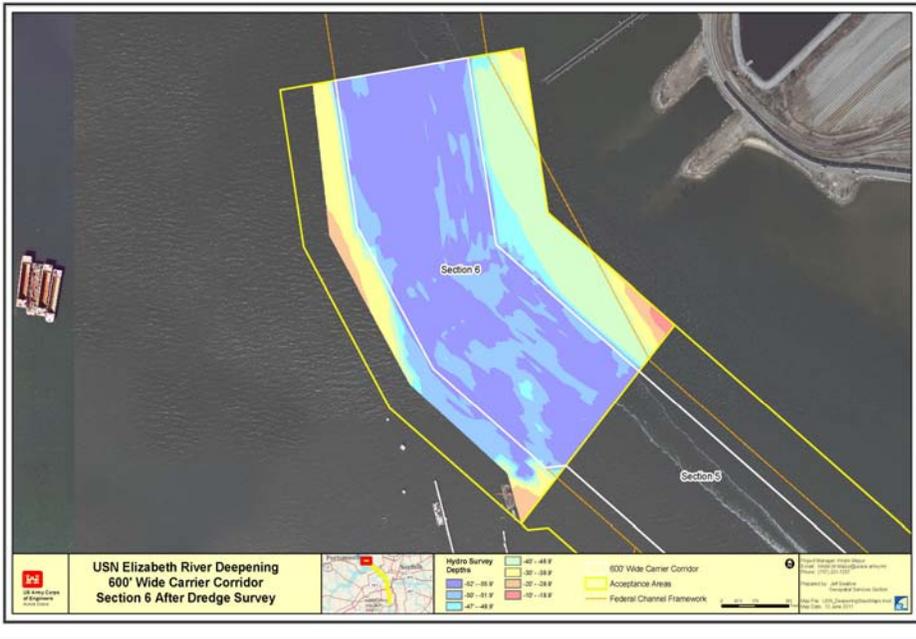
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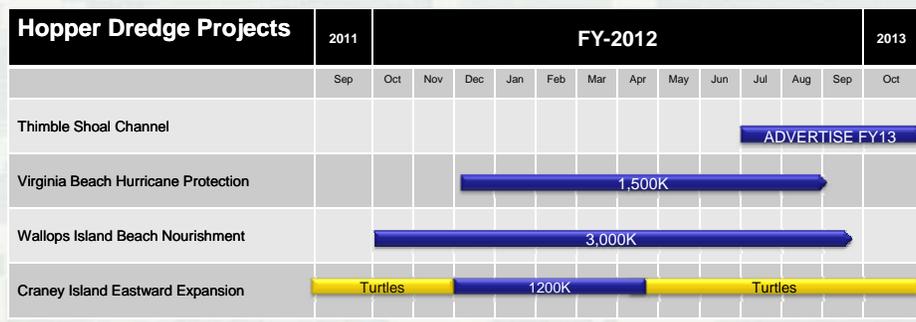
## GIS Analysis BD AS 6



## GIS Analysis AD AS 6



## Norfolk District FY-12 Dredging Program SCHEDULE OF PROJECTS



Time-of-Year Restriction



US Army Corps of Engineers – Norfolk District

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## Thimble Shoal Channel

- **Project Depth:**  
50'
- **Estimated Quantity:**  
385,000 cy
- **Material Type:**  
Fine-grained,  
Maintenance
- **Dredge Type:**  
Hopper
- **Advertisement Date:**  
17 July 2012
- **Bid Opening Date:**  
17 August 2012
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7768

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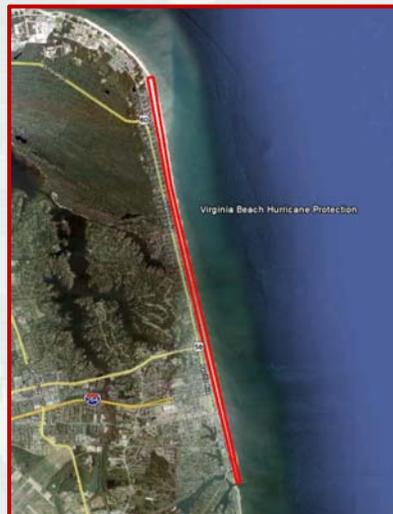
25



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## Virginia Beach Hurricane Protection

- **Project Depth:**  
N/A'
- **Estimated Quantity:**  
1,500,000 cy
- **Material Type:**  
Coarse-grained,  
New Work
- **Dredge Type:**  
Hopper
- **Advertisement Date:**  
25 October 2011
- **Bid Opening Date:**  
24 November 2011
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7768

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26



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## Wallops Island Beach Nourishment

- **Project Depth:**  
N/A
- **Estimated Quantity:**  
3,000,000 cy
- **Material Type:**  
Coarse-grained,  
New Work
- **Dredge Type:**  
Hopper
- **Advertisement Date:**  
1 August 2011
- **Bid Opening Date:**  
14 September 2011
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7181

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27

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## Craney Island Eastward Expansion

- **Project Depth:**  
TBD
- **Estimated Quantity:**  
1,200,000 cy
- **Material Type:**  
Course-grained,  
New Work
- **Dredge Type:**  
Hopper
- **Advertisement Date:**  
22 August 2010
- **Bid Opening Date:**  
22 September 2010
- **Seasonal Restrictions:**  
1 April –  
30 November



Project Manager: (757) 201-3538

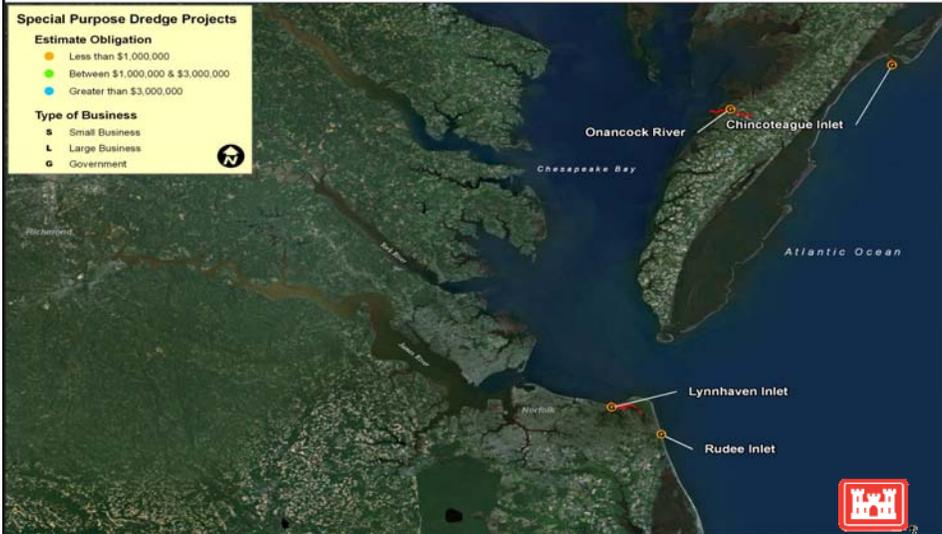
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28

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## Norfolk District FY12 Dredging Projects *SPECIAL PURPOSE PROJECTS*



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29

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## Norfolk District FY-12 Dredging Program *SCHEDULE OF PROJECTS*

Special Purpose Dredge Currituck	2011		FY-2012										2013	
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Chincoteague Inlet								50K						
Lynnhaven Inlet					30K							30K		
Onancock River								30K						
Rudee Inlet				20K			20K						20K	

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## Chincoteague Inlet

- **Project Depth:**  
12'
- **Estimated Quantity:**  
50,000 cy
- **Material Type:**  
Course-grained,  
Maintenance
- **Dredge Type:**  
Special Purpose
- **Advertisement Date:**  
N/A
- **Bid Opening Date:**  
N/A
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7616

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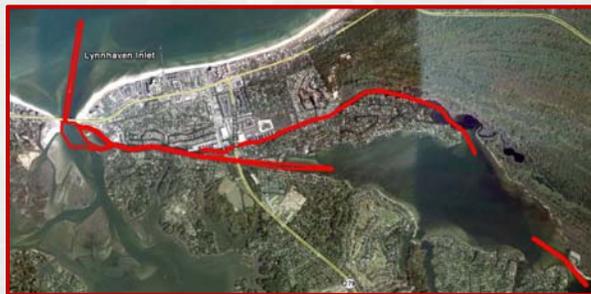
31



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## Lynnhaven Inlet

- **Project Depth:**  
10'
- **Estimated Quantity:**  
60,000 cy
- **Material Type:**  
Course-grained,  
Maintenance
- **Dredge Type:**  
Special Purpose
- **Advertisement Date:**  
N/A
- **Bid Opening Date:**  
N/A



Project Manager: (757) 201-7257

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32



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# Onancock River

- **Project Depth:**  
12'
- **Estimated Quantity:**  
30,000 cy
- **Material Type:**  
Course-grained,  
Maintenance
- **Dredge Type:**  
Special Purpose
- **Advertisement Date:**  
N/A
- **Bid Opening Date:**  
N/A
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7861

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33



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# Rudee Inlet

- **Project Depth:**  
7' – 18'
- **Estimated Quantity:**  
60,000 cy
- **Material Type:**  
Course-grained,  
Maintenance
- **Dredge Type:**  
Special Purpose
- **Advertisement Date:**  
N/A
- **Bid Opening Date:**  
N/A
- **Seasonal Restrictions:**  
None



Project Manager: (757) 201-7257

US Army Corps of Engineers – Norfolk District

34



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## Questions/Comments?

**Contact Information:**  
Norfolk District, USACE  
Operations Branch

Michael Anderson, P.E.  
Chief, Design Section  
PHONE: 757-201-7584