

ATLANTIC INTRACOASTAL WATERWAY

NORFOLK DISTRICT

Zack Ware, MSCE

AIWW Project Manager Norfolk District

AIWA Conference

November 2023

“The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.”



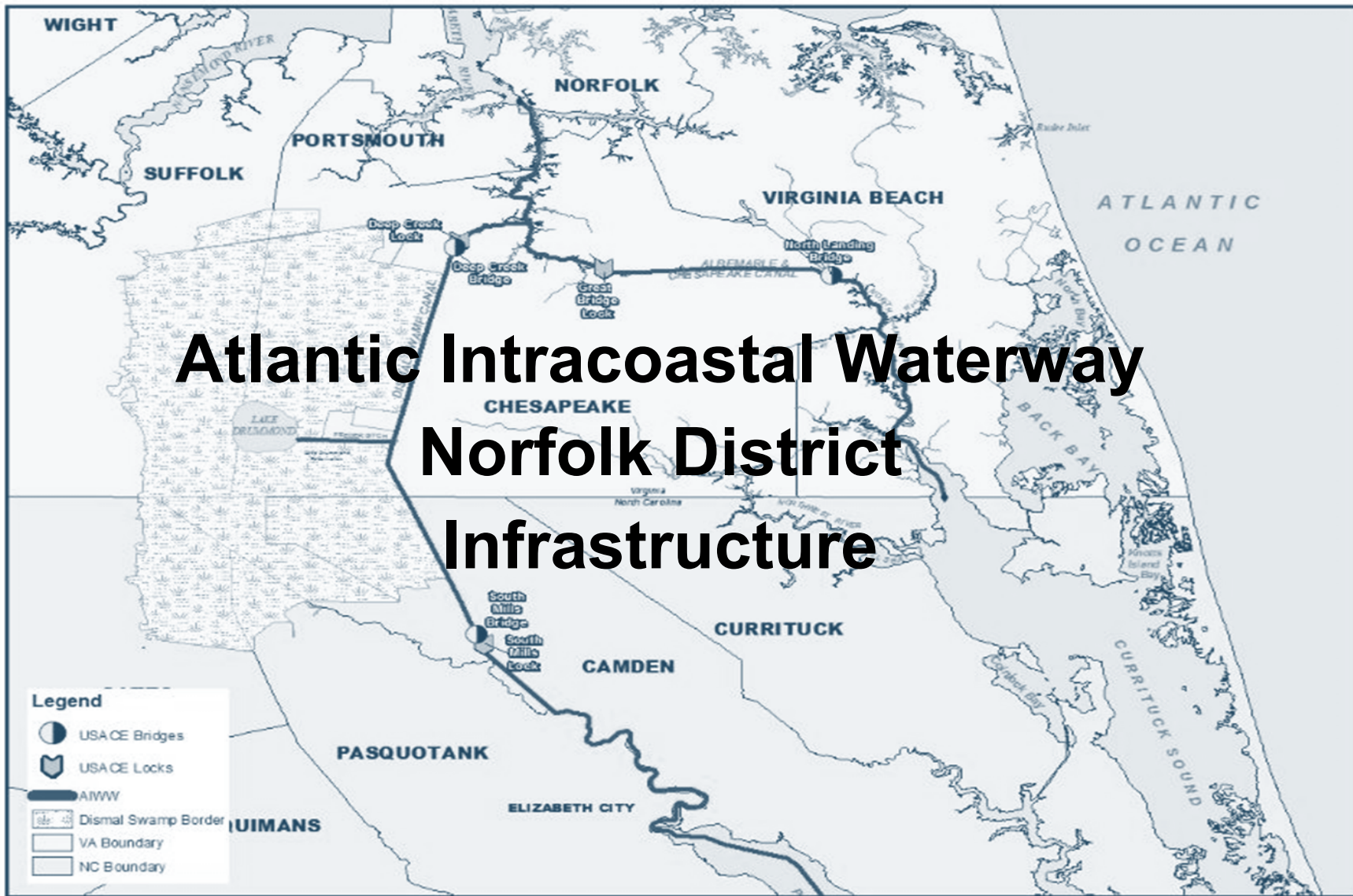
US Army Corps
of Engineers®











Legend

-  USA CE Bridges
-  USA CE Locks
-  AIWW
-  Dismal Swamp Border
-  VA Boundary
-  NC Boundary



Atlantic Intracoastal Waterway Norfolk District Infrastructure

Legend

-  USA CE Bridges
-  USA CE Locks
-  AIWW
-  Dismal Swamp Border
-  VA Boundary
-  NC Boundary

Atlantic Intracoastal Waterway Norfolk District Albemarle and Chesapeake Canal (ACC)



GREAT BRIDGE LOCK

Operators 24/7/365

Level 1 Service

2 Operators During the Day and 1 Operator at Night

Opens on Request-In Conjunction with Bridge Openings

Constructed in 1932

NORTH LANDING BRIDGE

Operators 24/7/365

1 Operator At All Times

Opens on Hour & Half Hour Day/On Request at Night

Constructed in 1951



North Landing Bridge Replacement, Chesapeake, VA

PROJECT INFORMATION

Description/Scope: Replace existing bridge with a high rise, two-lane, fixed bridge to the east of the existing bridge. 69' vertical clearance at MHW; 140' horizontal clearance.

Estimated Cost: \$131,349,000 **FY23 PED Funds: \$5M**

Phase: Preconstruction Engineering and Design (PED) **Business Line: Navigation**

Sponsor: City of Chesapeake (100% Federally Funded) **Project Managers: NAO: Jenny Britt City: Sean Marsden**



SCHEDULE/MILESTONES

Current	Key Action
April 2023 (A)	Start Project Management Plan (PMP) for PED
October 2023 (S)	PMP Approval
January 2024 (S)	AE Task Order Award

STATUS / CHALLENGES / WAY AHEAD

Status:

- Feasibility Study was completed with the Report of the Chief of Engineers signed on 25 Aug 2020
- Project received authorization in WRDA 2020
- \$5M received FY23 Q4 Appropriations from a Congressionally Directed Spending Request.
- PED planning efforts started April 2023.
- Draft PMP and Review Plan will be complete September 2023.

Challenges:

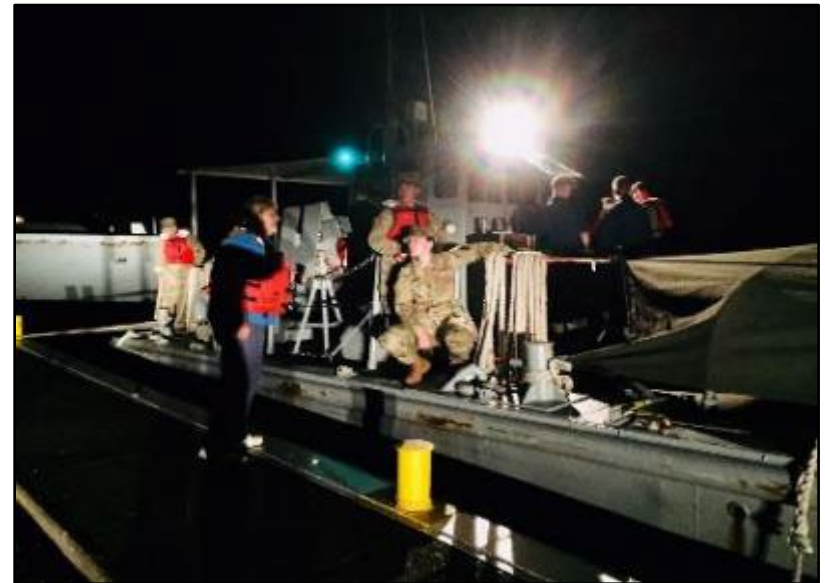
- Challenging landowners on Virginia Beach side of bridge.
- Maintaining schedule and budget.

Way Ahead:

- Develop and award design task order. Scope of work will be complete September 2023.



Atlantic Intracoastal Waterway Norfolk District Dismal Swamp Canal (DSC)



Deep Creek and South Mills Lock

Operators 8/7/365

Level 4 Service

1 Operator also Operates the Bridge and Spillway

Up to 4 Scheduled Lockings Per Day

Constructed in 1941



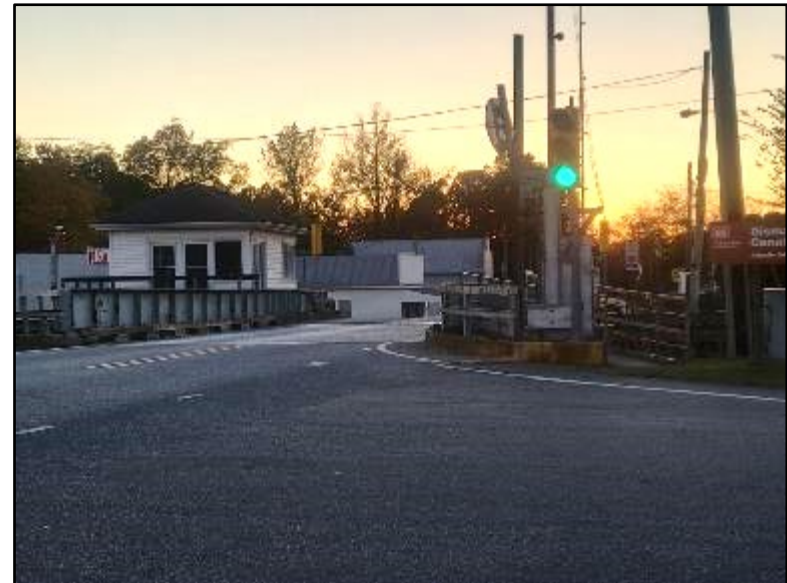
US Army Corps
of Engineers[®]



Atlantic Intracoastal Waterway

Norfolk District

Dismal Swamp Canal



Deep Creek and South Mills Bridge

Operators 8/7/365

Operator at Adjacent Lock

Opens in Conjunction with Scheduled Locking

Constructed in 1934



US Army Corps
of Engineers ®



AIWW Deep Creek Bridge Replacement Project

PROJECT INFORMATION

Description/Scope: Replace existing bridge with a low-level, 5-lane, split leaf, pit bascule bridge, with separate 2-lane and 3-lane leafs. The eastbound leaf would be 75 feet long, 40 feet wide, and would have two vehicle lanes and a pedestrian sidewalk. The westbound lane would have 3 vehicle lanes and be approximately 48 feet wide. Project includes tie-ins to existing roadways and related work.

Section 902 Limit: \$87,012,000	CWE (Total): \$85,871,000
Phase: Construction	Contributed Share: \$65.9M Fed/ \$20M City
Fed Allocated to Date: \$65,871,000	Fed Funds Available Current Year: \$73,615,000
N-Fed Allocation: \$20,000,000	
Project Agreement signed August 2016	Project Managers: NAO: Walt Trinkala City: Crystal Bloom
Sponsor: City of Chesapeake	Business Line: Navigation



SCHEDULE/MILESTONES

Current	Key Action
17 Apr 2023 (A)	Construction Contract Award
6 June 2023 (S)	Notice to Proceed
12 Sep 2026 (S)	Construction Completion Date

STATUS / CHALLENGES / WAY AHEAD

Status:

- Partnering meeting held on 15 Aug 2023
- Weekly progress meeting started on 30 Aug
- Construction Preparations are underway
- Need Notice of Possession from Dept. of Justice on Condemnation No 2 (at Food Lion)

Challenges:

- Completing real estate acquisition/condemnation process.
- Maintaining schedule and budget.

Way Ahead:

- Initiate construction
- Award construction management services contract.
- Maintain a project website



US Army Corps
of Engineers[®]



Atlantic Intracoastal Waterway

Norfolk District

Dismal Swamp Canal



Deep Creek and South Mills Spillway

Operators 8/7/365
Operator at Adjacent Lock
Constructed in 1963

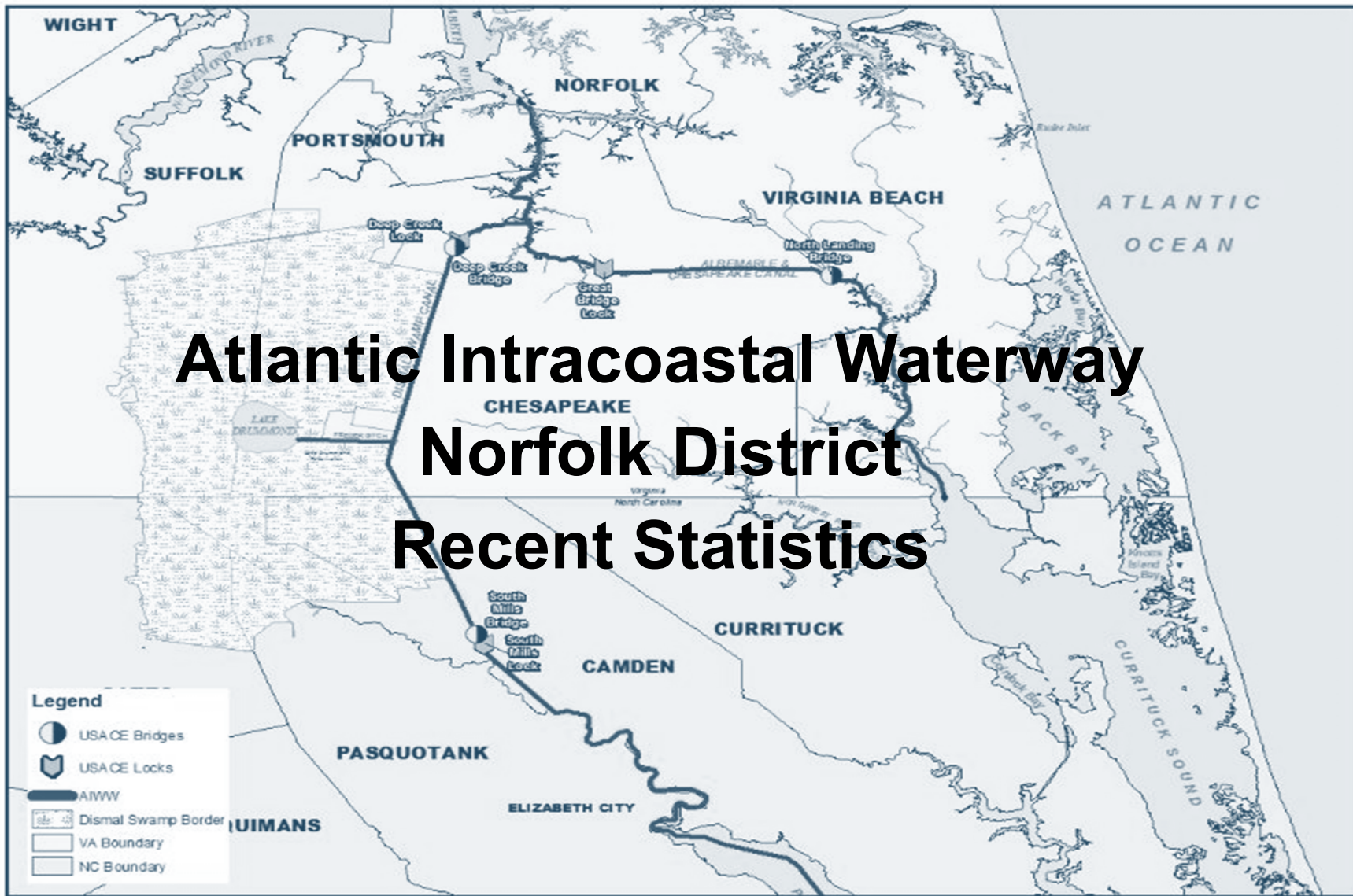
Lake Drummond Reservation

Dam Operators 8/7/360
1 Operator also Patrols Canal
Constructed in 1935



US Army Corps
of Engineers ®





Atlantic Intracoastal Waterway Norfolk District Recent Statistics



US Army Corps of Engineers®



Atlantic Intracoastal Waterway Norfolk District Bridge Inspections

BRIDGE	YEAR CONST	SUFFICIENCY RATING 2018	OCA/ ORA CAT.	NEXT INSP.
South Mills, NC	1934	78.6%	38 / II	2024
Deep Creek, VA	1934	48.8%	90 / I	2024
North Landing, VA	1951	27.5%	85 / I	2024



US Army Corps
of Engineers[®]



Atlantic Intracoastal Waterway Norfolk District Budget History

Fiscal Year	ACC	DSC
2019	\$3,517k	\$1,868k
2020	\$2,862k*	\$949k
2021	\$2,650k**	\$1,249k
2022	\$3,015k	\$1,736k
2023	\$7,035k	\$3,971k

***Includes Work Plan Funding**

****Includes 1% Emergency Funding**



US Army Corps
of Engineers ®



Atlantic Intracoastal Waterway Norfolk District Vessel and Tonnage Count

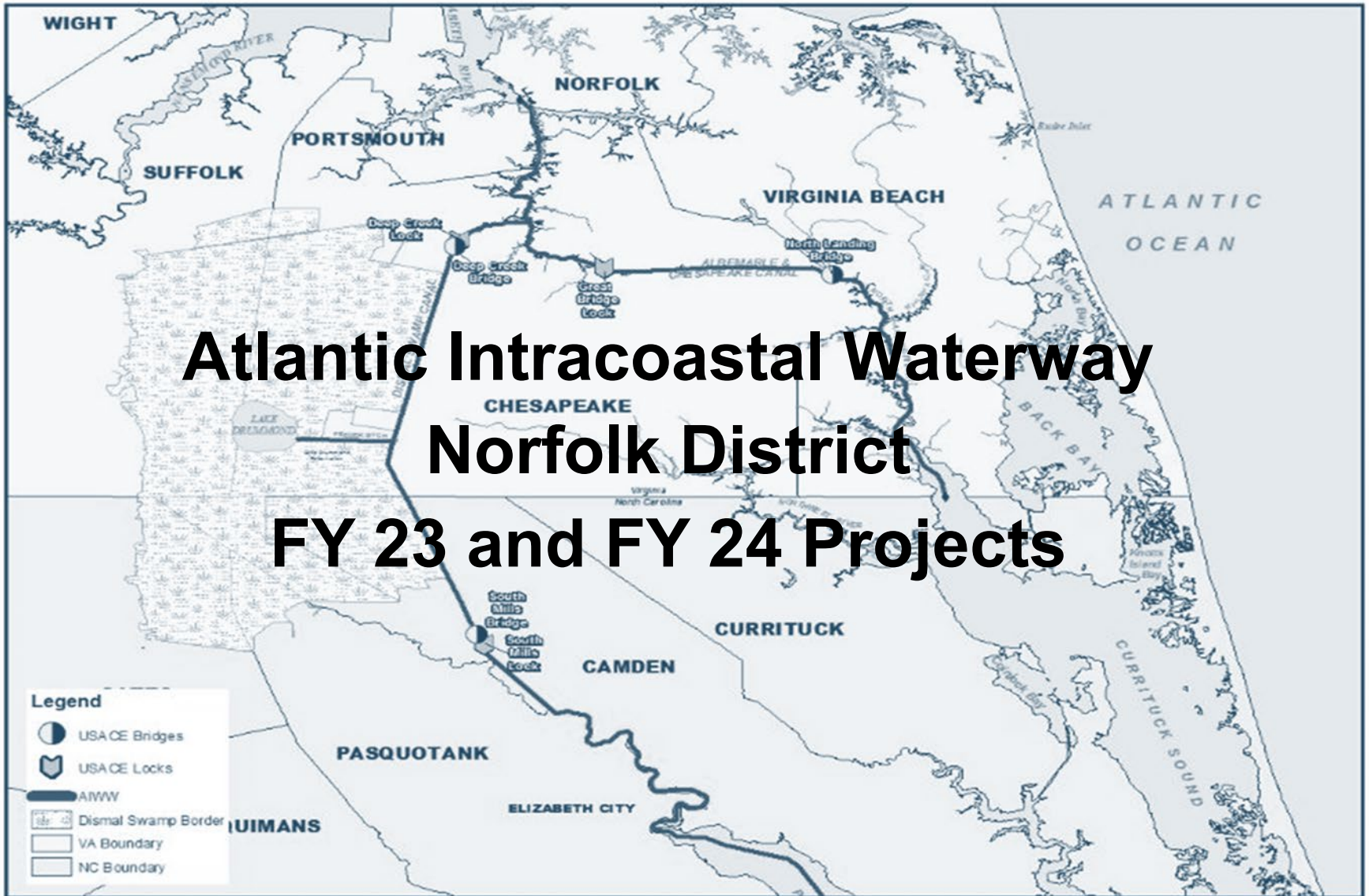
Fiscal Year	ACC (GBL)	ACC Tonnage	DSC (DCL)
2019	7,631	872,006	1,188
2020	7,525	787,874	695
2021	8,176	887,092	860
2022	7,843	728,172	1,013
2023	10,307	806,302	1,575



US Army Corps
of Engineers[®]



Atlantic Intracoastal Waterway Norfolk District FY 23 and FY 24 Projects



US Army Corps
of Engineers®



Atlantic Intracoastal Waterway Norfolk District FY 23 O&M



- **Great Bridge Lock Electrical Issue**
- **Great Bridge Lock's Miter Gate Rehab (20-year cycle).**
- **Completed 6 of 8 lock valves (Last 2 scheduled for 2025).**
- **Awarded fourth and final option year of 5-year facility contract**
- **Major Fender Allision (Repairs Ongoing)**



US Army Corps
of Engineers[®]

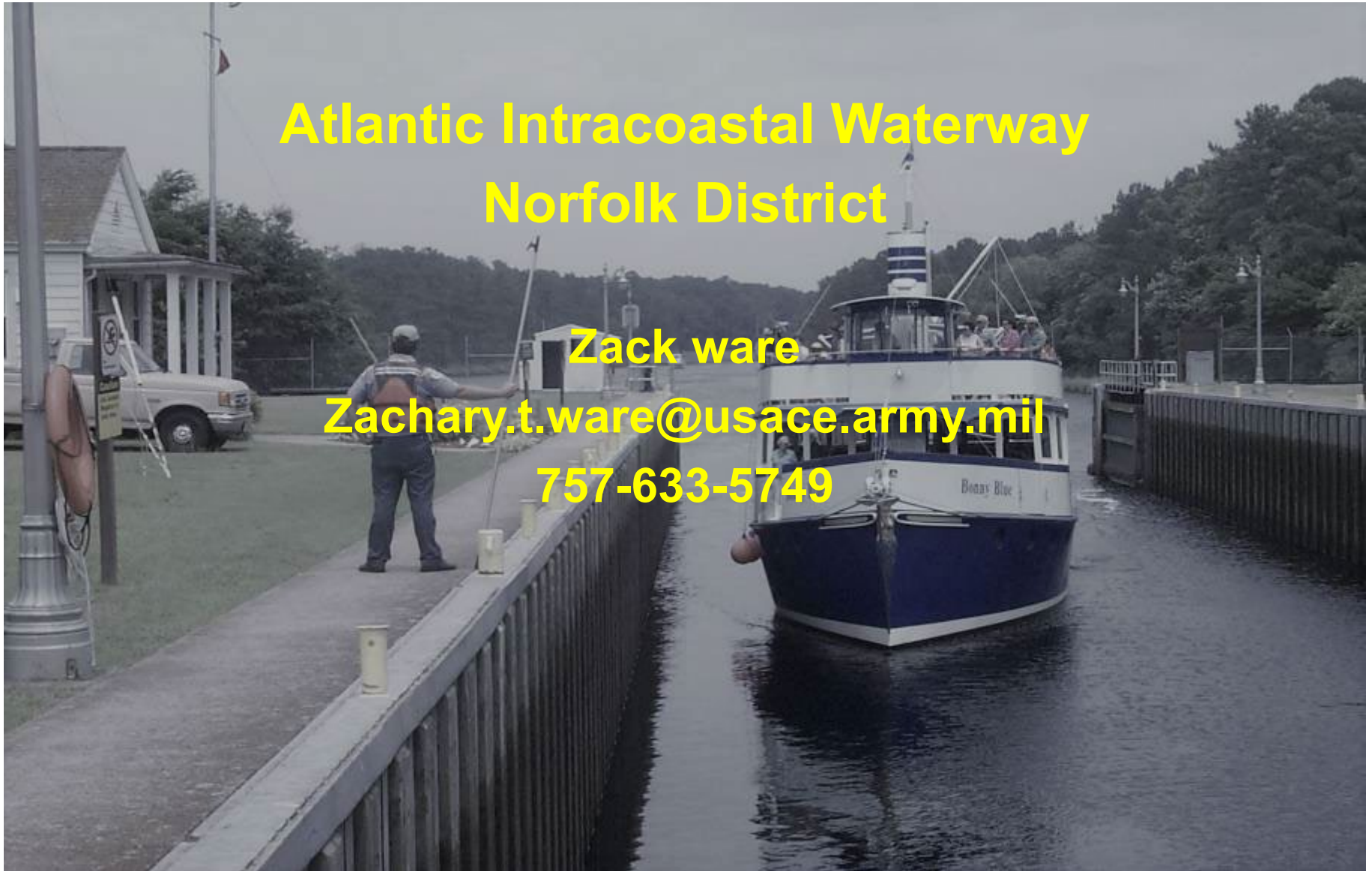


Atlantic Intracoastal Waterway Norfolk District FY 24 O&M

- **Award base year (with 4 option years) for new facility contract to operate and maintain locks, bridges, and water control structures by March 2024.**
- **Emergency Funding Projects (12E Funds)**
 - **Southern Span Transmission Tray Repair**
 - **Abutment Scour Repair**
- **Dismal Swamp Canal In-House Projects:**
 - **Tree and Obstruction Removal Ongoing**
 - **Deep Creek Locks Concrete Pad Replacement Project**
 - **Infrastructure upgrade project at South Mills and Deep Creek**

Atlantic Intracoastal Waterway Norfolk District

Zack ware
Zachary.t.ware@usace.army.mil
757-633-5749



US Army Corps
of Engineers[®]

