Eroding Trust Building Resolve

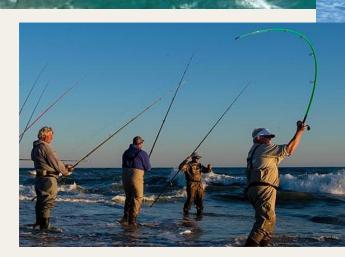
How coastal erosion revealed decades of mismanagement by government agencies and prompted Buxton, NC, a coastal community to take action.



North Carolina Beach, Inlets and Waterways Association Fall Conference November 18, 2024 Wilmington, NC

Buxton, NC

> Outer Banks > Hatteras Island















How Did We Get Here?

+1953 – Cape Hatteras National Seashore Established 41956 – Special Use Permit* Issued to US Navy +1956 – 1982 – Naval Facility Cape Hatteras +1982 – US Coast Guard Assumed Use** from US Navy +1982 – 2010 – Coast Guard Group Cape Hatteras +2010 – Returned to Management by National Park Service





Important Notes

+Special Use Permit

11. The permittee shall remove all structures, foundations, and pavements, and clean up and restore the site prior to or immediately following termination of use.

+US Coast Guard Refused Management of Several Buildings

- + These buildings "Building 19" and "The Driftwood Club" are the buildings that are now the center of some of the issues
- +1998 Area Declared "Formerly Used Defense Site" (FUDS)
- +Adjacent/Surrounding Area managed as Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) site by USCG

September 2023

+Strong petroleum odors prompted closure of beach due to public health concerns

February 2024

- +Recurrence of strong odors and visible sheen on the ocean
- +Surfers complained of headaches, nausea, and film on wetsuits, skin, and on hair
- +Samples revealed TPH-DRO levels 65x the actionable level

Previous Cleanup Efforts

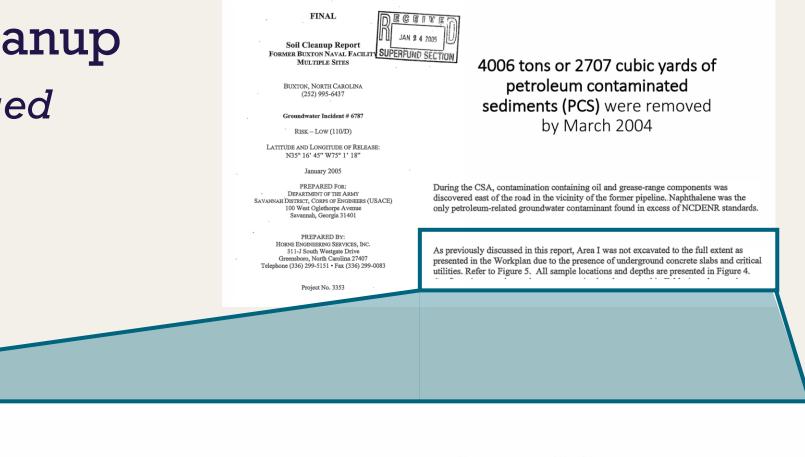
41989 – USACE removed multiple aboveground storage tanks

+1998 – USACE completed additional cleanup efforts after USCG removed 27 underground storage tanks

+2001 – USACE prepares Corrective Action Plan which included additional groundwater monitoring wells, demolition, soil remediation

Previous Cleanup

Efforts, continued



As previously discussed in this report, Area I was not excavated to the full extent as presented in the Workplan due to the presence of underground concrete slabs and critical utilities. Refer to Figure 5. All sample locations and depths are presented in Figure 4.

More Recent Action

- +After the February 2024 events of strong odors and visible sheen as well as erosion and storm events revealing substantial physical infrastructure and safety hazards, the community took action
- +Buxton Civic Association formed in April 2024 with the Buxton Beach Issues serving as a catalyst
- +Dare County Commissioners travelled to Raleigh to ask for assistance at a state level

NEWS **Buxton Civic Association Community Outcry** forms to tackle pollution at old naval base New Buxton Civic Association outlines the work by: <u>Nick Broadway</u> Posted: Jul 23, 2024 / 08:43 AM EDT ahead to fix Buxton Beach at heated public Updated: Jul 24, 2024 / 01:47 AM EDT Dare County thanks community members, meeting April 11, 2024 | Local News | By: Joy Crist **Buxton Civic Association for current** remediation efforts at Buxton Beach Buxton beach needs help September 18, 2024 | Local News Published 12:48 pm Thursday, March 21, 2024 By Mary Helen Goodloe-Murphy Navy, USACE and Coast Guard told to provide work plan for Buxton Beach frustrations simmer at Dare Buxton beach cleanup

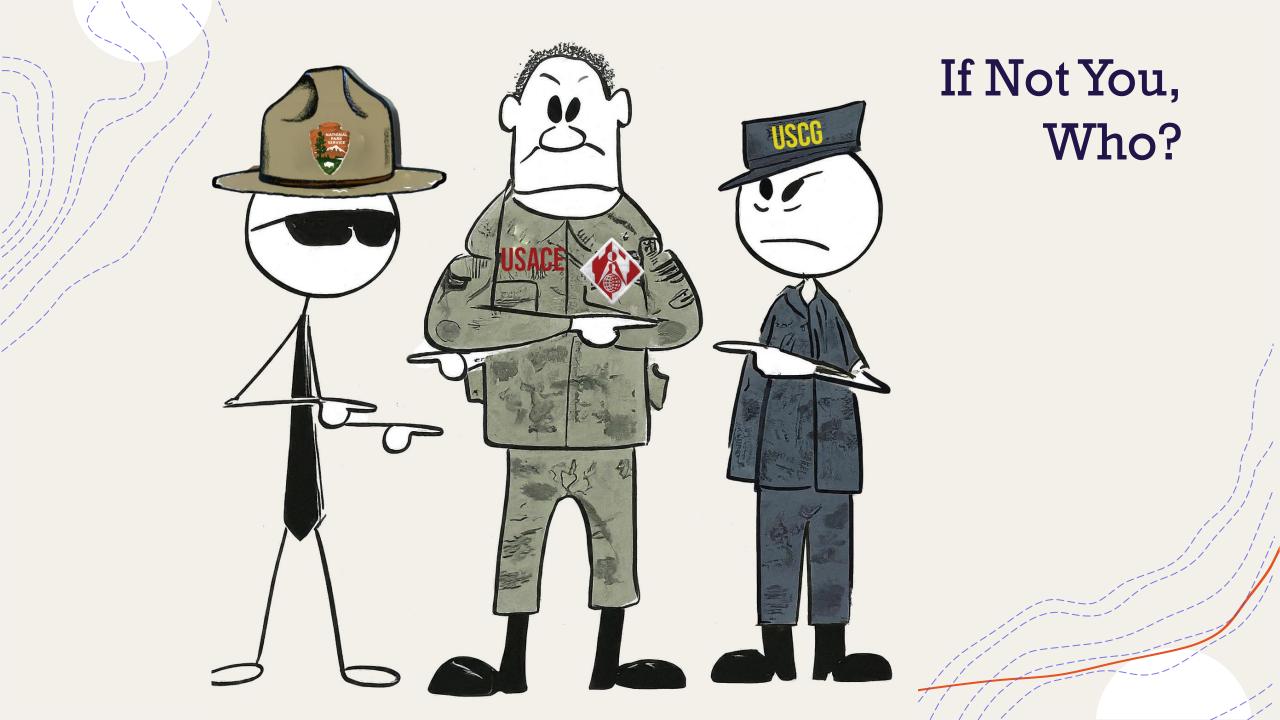
⁹ublished 8:20 am Sunday, April 28, 2024

By Mary Helen Goodloe-Murphy

County Board of Commissioners meeting

September 4, 2024 | Local News | By: Joy Crist |





US Army Corp of Engineers

+USACE division of DOD to execute the FUDS program

+FUDS Handbook States:

"The type of cleanup required varies from property to property, and can include cleaning up hazardous, toxic and radioactive waste sites; removing munitions and explosives of concern and munitions constituents; or doing building demolition and debris removal if the building or structure was unsafe at the time of transfer."

> https://www.usace.army.mil/Media/Fact-Sheets/Fact-Sheets-View/Article/ 1910599/formerly-used-defense-sites-program-fact-sheet/

US Army Corj o Ingineers

+Current Stance on Buxton Beach:

"When the Navy ceases control of the Brokon Naval Facility in 1982, buildings and structures were safe and the vist majority of the facility was subsequently and beneficially used by the U.S. Coastrogant. Current unsafe conditions are a result of the remnant Navy influstructure being to posed by erosion on the beach. These conditions did not exist when the property was transferred from Navy control in 1982. For these reasons, USACE does not have the authority under the FUDS Program to address these conditions. This question has been considered and evaluated by USACE's high est organizational levels."

> https://www.sas.usacourmy.mil/_issions/formerly-used-defense-sites/ buxton_aval-facilit

Most Recent Efforts by USACE

- +May 2024 70'-80' Section of Pipe Removed
 - + Test Results still "Pending" but did reveal actionable levels of petroleum
- +September 2024 team deployed to perform more immediate remediation action

+At that time, there was still no commitment to removing infrastructure, physical hazards

USACE TAKES ACTION

+ Fall 2024 – Huge Steps Forward

Approximate Cumulative Removal Quantities (as of 10/30/24)				
Petroleum- Impacted Soil (Cubic Yards)	Petroleum- Impacted Water (Gallons)	Concrete (Pounds)	Pipe (Feet)	Metallic Debris, Cable/Wire (Feet)
505	11,000	84,400	1,133	1,030









(USACE, personal communication, November 6, 2024)

What Have We Learned ????

We Need Beach Stabilization.





Buxton Beach Late 1960s

- US Navy Contracted with the US Army Corp of Engineers to construct the jetties
- Built to address coastal erosion that was threatening the Navy Base as well as the historic Cape Hatteras Lighthouse



(US Department of Interior, National Park Service, 1972)









Early 1980s



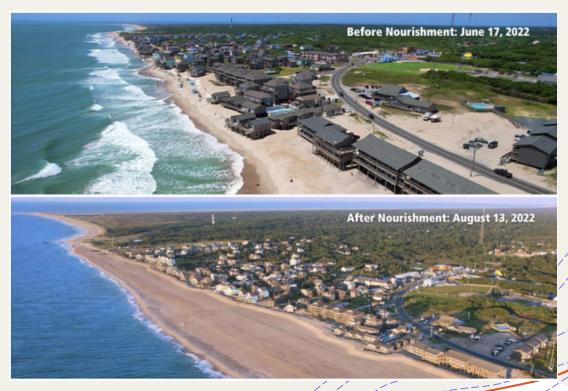
Beach Nourishment

2017-2018



https://www.thecoastlandtimes.com/2019/06/09/beach-nourishment-coming-to-buxton-in-2021/

2022

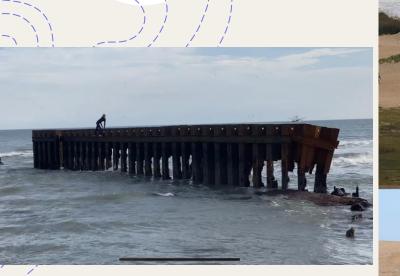


https://www.darenc.gov/government/beach-nourishment/ buxton-beach-nourishment "Buxton's beach is narrower than other sections of beach on Hatteras Island. Normal waves are directly impacting developed property, and highway NC 12 is frequently flooded. The only road providing access to historic villages and park resources along Hatteras Island, NC 12 accommodates millions of visitors each year and serves as a critical lifeline for the health and safety of Hatteras communities."

"Continued beach erosion would impact natural, cultural, and human resources."

"There could be loss of bird and turtle nesting habitat seaward of the dune line and loss of vehicle access to communities at Cape Hatteras."

(US Army Corps of Engineers, US Department of Interior, National Park Service, 2015)





Sept. 2016



Jan. 2015

Sept. 2017



Oct. 2015



Thank You



References

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