



**Hampton Roads Sea Level Rise/Flooding  
Adaptation Forum  
July 10, 2013**

## **Washington Post**

May 22, 2013 | NORFOLK, Va. - Flood-prone Norfolk is one of eight cities nationwide chosen by the Rockefeller Foundation for a program to finance and build better storm water infrastructure.



# COLONY OF VIRGINIA



0 1 2 3 4 5 100 500 feet

Upper Highway to June 1623

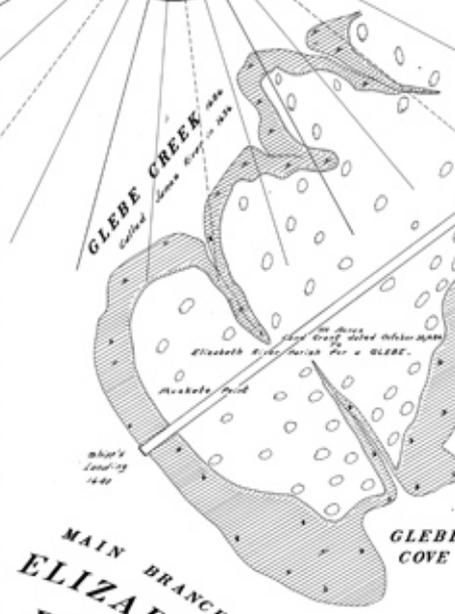


NORFOLK COUNTY established in 1637

**DUN IN THE MIRE** 1644

The gun were slowly but sure and shot, and tumbled down, and the ship in the night. For that we saw, for many in the night that were made our boats at night. (Cherry, 1644)

Public Landing and place appointed for Public Landing.



GLEBE CREEK 1624  
GLEBE COVE  
MAIN BRANCH ELIZABETH RIVER 1625



FOURE FARTHING POINTE

TOWN BACK CREEK

first EASTERN BRANCH

**Royal Governors:**  
Thomas, Second Lord Colchester, Baron Thersway,  
Governor and Captain-General, 1610-1613;  
Sir Henry Chicheley, Deputy Governor,  
Francis and Richard of Fitzhugh,  
Lieutenant-Governors, 1613-1618;  
Colonel Thomas Nuttall,  
Lieutenant-Governor, 1618-1621;  
Sir Edmund Bacon,  
Governor and Captain-General, 1621-1626;  
George Hamilton (Duke), Earl of Orkney,  
Governor-in-Chief, 1627-

**Annual Fair:**  
The 17000 Day of October and a day  
Following, exclusive of Sunday.  
**Market Days:**  
Tuesday and Saturday

**ORIGINAL 50 ACRES**  
sold and conveyed by Nicholas Wren  
Whittaker, to Messrs. William Johnston  
and William Stevens, Merchants in London  
For the Norfolk Town Land. In witness  
whereof, I have hereunto put my hand and  
seal the 10th day of April, 1682, and in the 22<sup>nd</sup> year of the  
reign of our sovereign Lord, King Charles the  
Second, our right Excellent, Gracious and  
Loving Father, of Great Britain, France and  
Ireland, Defender, of the Faith, &c.  
Nich. Wren and Seal  
Arch.



Norfolk towne  
John Parson, County Surveyor, 1681-82

Bureau of Surveys, Norfolk, Virginia  
compiled by Grover Franklin  
drawn by Lionel P. Brown



## NORFOLK'S ORIGINAL FIFTY ACRES



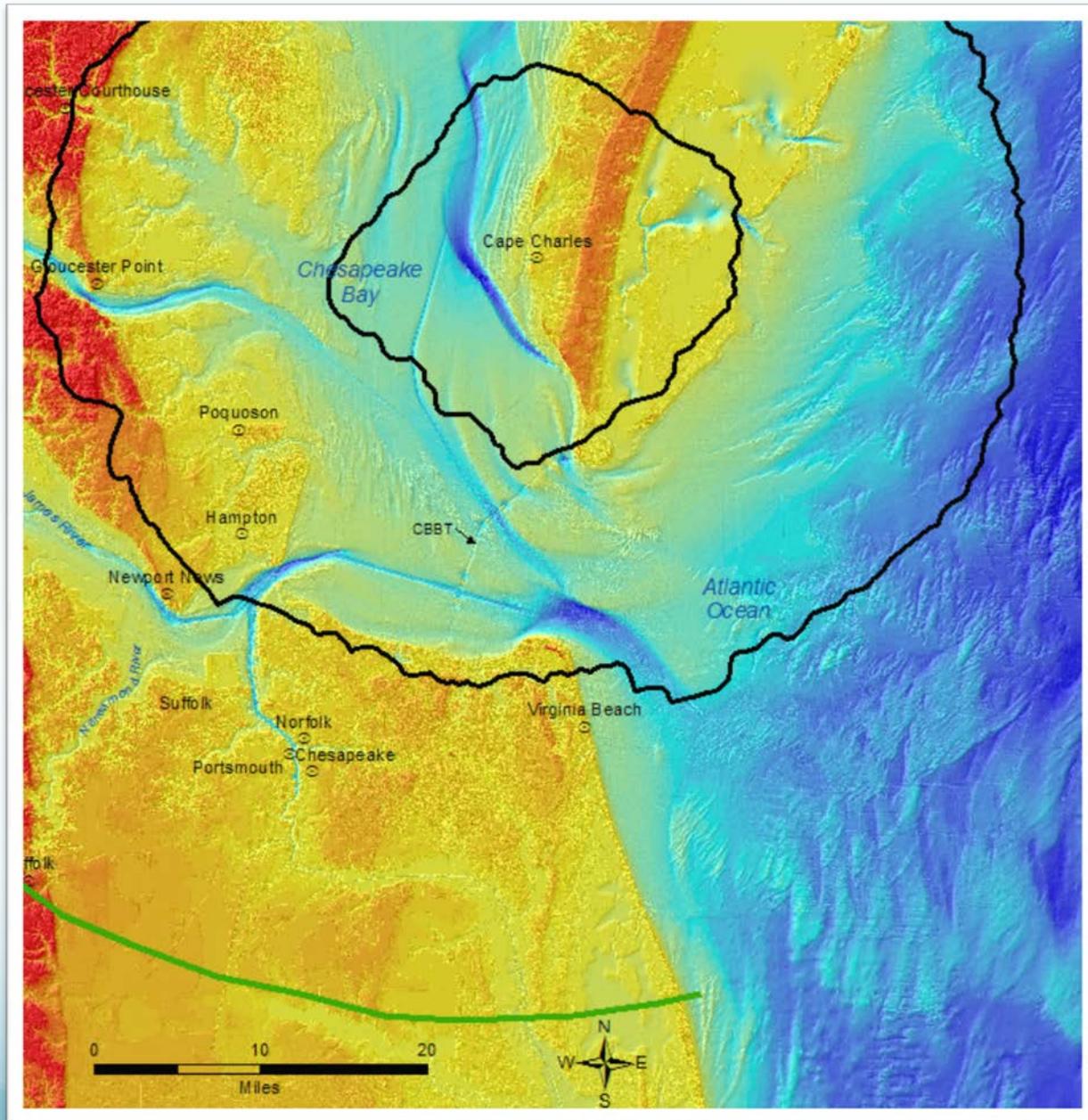
John Ferabee, County Surveyor 1680 - 1681  
John Ward, City Surveyor 2006 - Present



This map depicts the original fifty acres of Norfolk overlaid upon 2013 imagery. This was created in multiple steps:  
First, the original "Norfolk Towne, 50 Acres, 1682" map was scanned.  
Next, city staff consulted with local historians to determine sites that still exist today.  
Then, field crews were sent out to collect GPS coordinates on the previously determined locations.  
Finally, the scanned image was georeferenced to the GPS points and the fifty acre boundary was digitized by a city technician.  
2013 Imagery is property of Pictometry International.  
Map completed October 2008, Updated 2013.  
This map is for graphic purposes only.



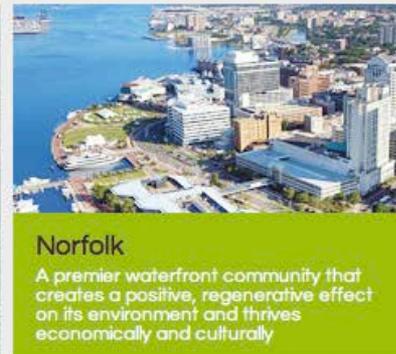




# Seeking Private Sector Investment



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Re.invest Initiative cities include: El Paso, Hoboken, Honolulu, Miami, Milwaukee, New Orleans, Norfolk and San Francisco

# Post-Sandy initiative to develop resilient urban stormwater infrastructure

- Two-year initiative, funded by the Rockefeller Foundation.
- Rethink the way cities design, plan, implement and finance urban infrastructure.
- RE.invest will reduce the burden placed on city personnel and public budgets by using public resources more efficiently and attracting new sources of private investment.

# Provides technical assistance from engineering, law and finance experts

*"The RE.invest initiative is a smart approach for cities looking to improve vital infrastructure in a way that attracts new sources of private investment. We are... providing the type of credible financial experts who will think creatively about ways to invest in the resilience of our communities."*

--- John Nelson, Managing Partner of Wall Street Without Walls

# Making projects on the drawing board a reality

*"We are looking forward to using our technical know-how, our history of applying creative thinking to infrastructure planning, and our ability to help make projects become a reality."*

--- Walker Kimball, Managing Director, Infrastructure, at Bechtel



# Smart planning, innovation and an integrated approach

- Focus on sustainable stormwater infrastructure systems: green rooftops, trees, wetlands and repaved roads with more permeable surfaces.
- Partners will identify new ways to bundle revenue streams so cities can effectively work with private investors and the private sector to make smart improvements to their local infrastructure.
- RE.invest will help cities and private sector partners connect the dots. Can power lines be buried when the road is opened? Can the road be repaved with absorbent asphalt to reduce water runoff ?



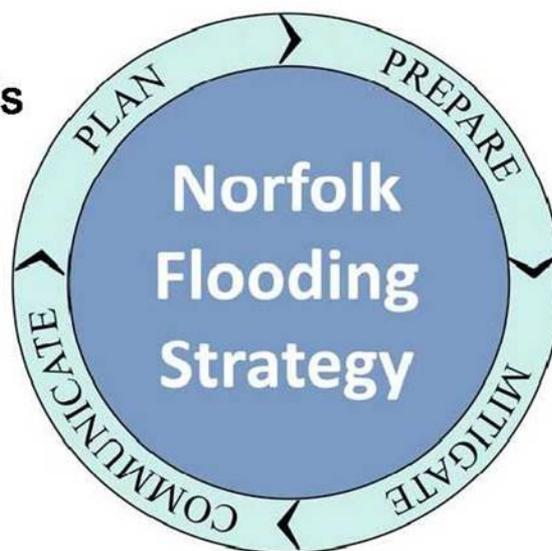
# Norfolk Flooding Strategy

## Plan

- City planning
- Study and analysis
- Modeling & simulation

## Communicate

- Citizen outreach
- Partnerships
- Online resources



## Prepare

- Emergency Preparedness & Response
- Education & Training

## Mitigate

- Infrastructure development
- Flood remediation and mitigation