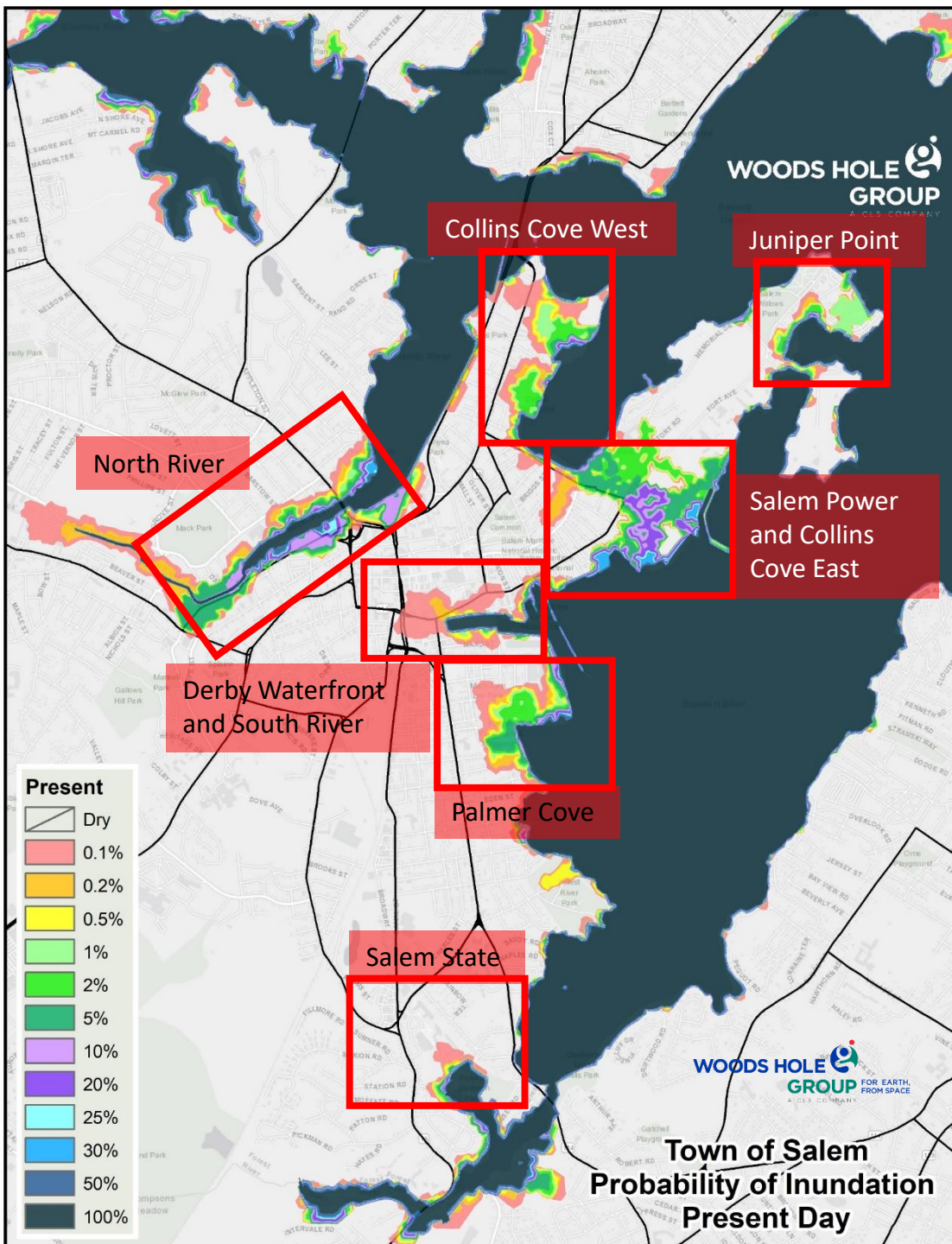


Mapping Future Flood Risk and Prioritizing Coastal Resilience for Salem MA

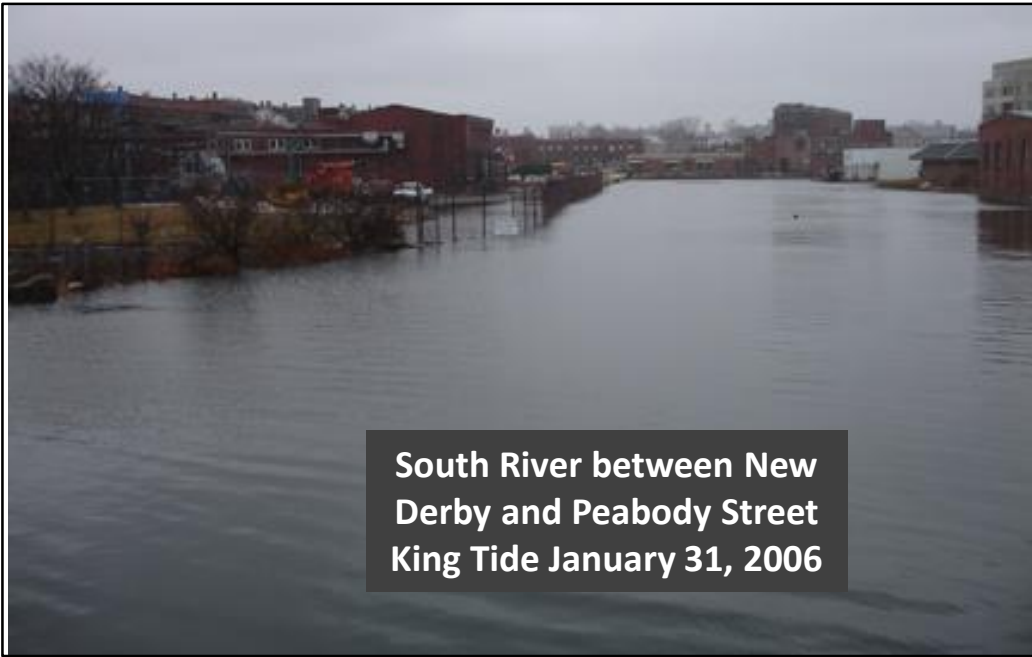


Kirk F. Bosma, P.E.
kbosma@woodsholegroup.com

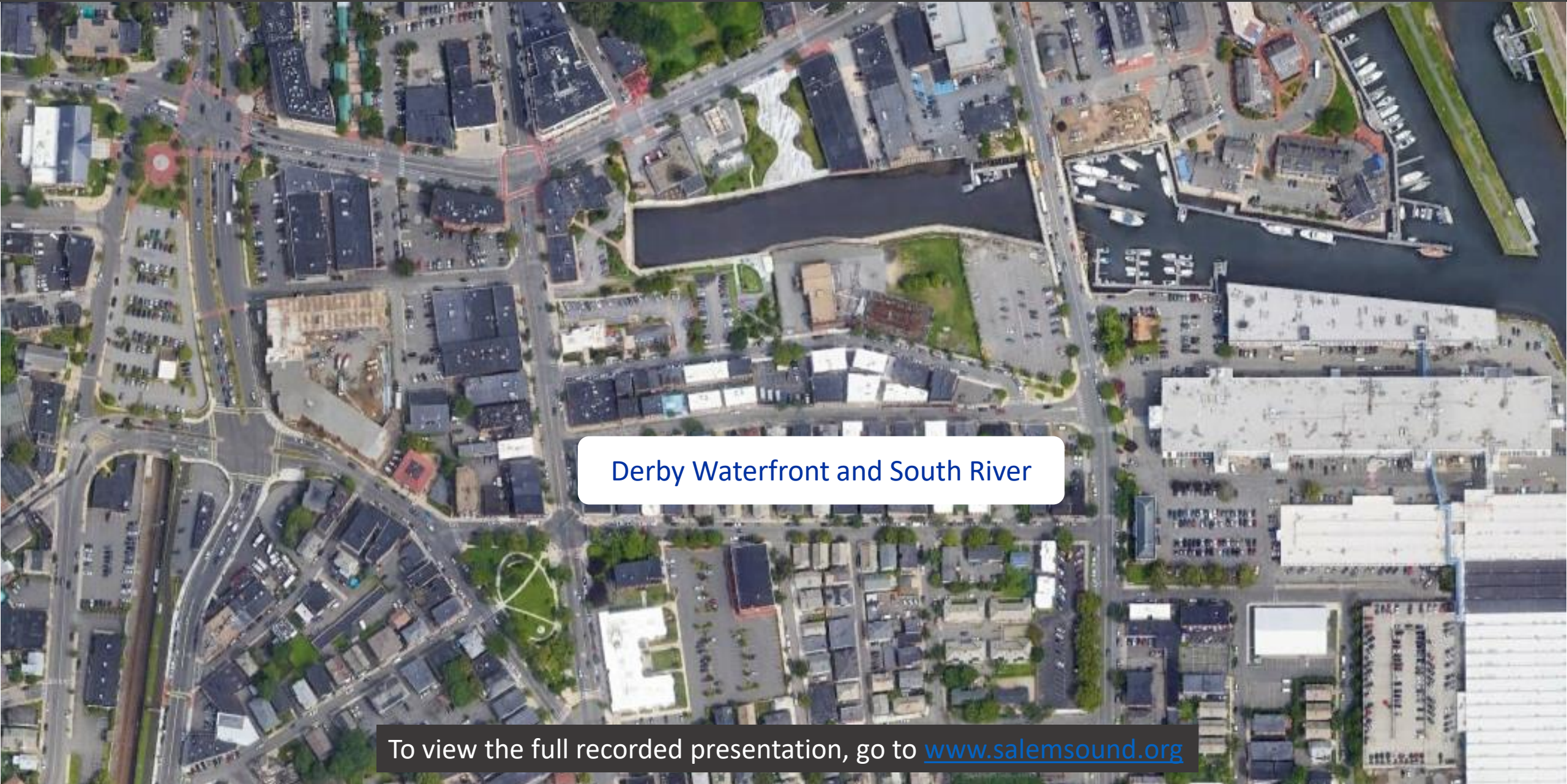




Coastal Flood Exceedance Probability Map for Salem MA – Present Day

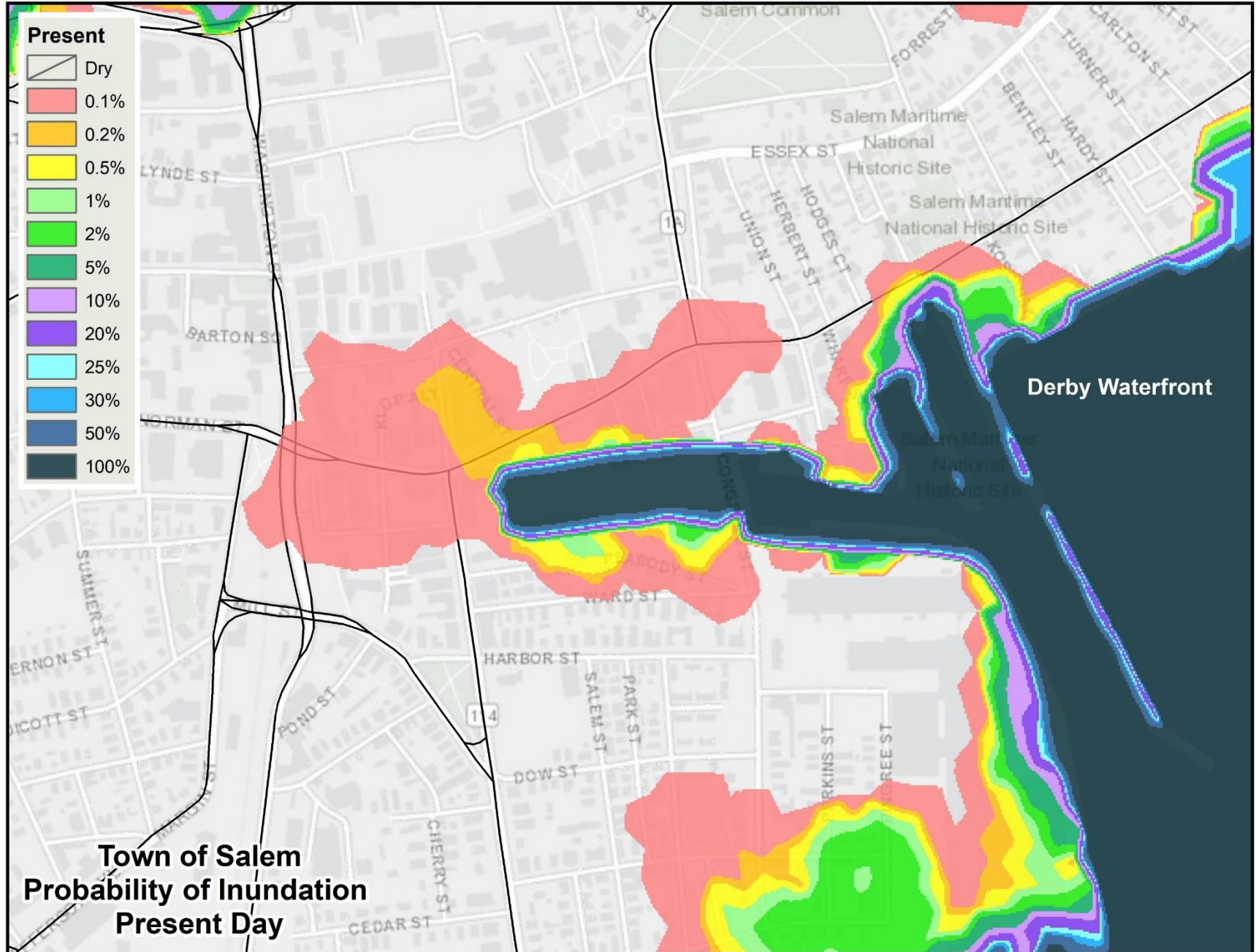


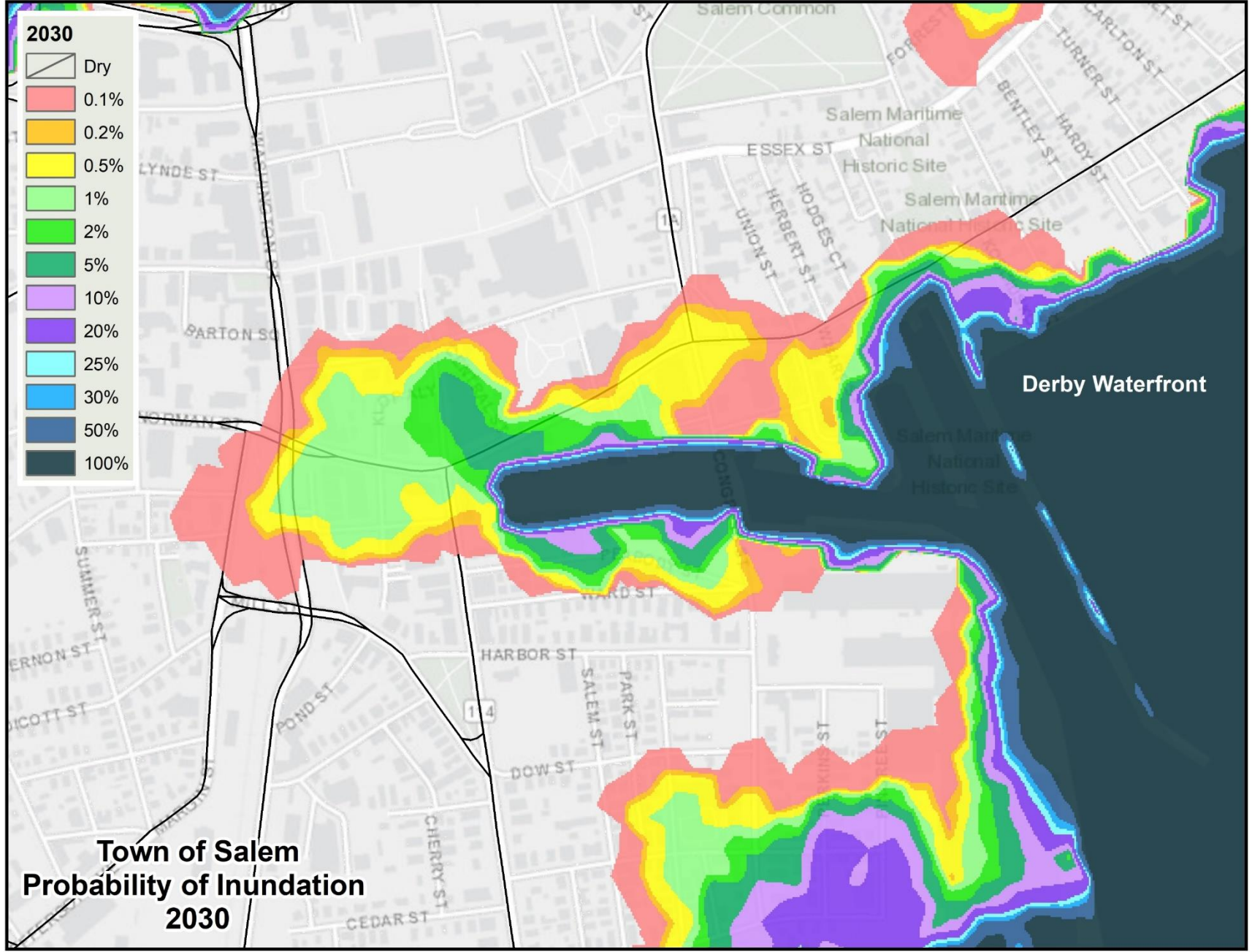
The following slides focus on the increasing flooding risk for Derby Street, Salem Maritime National Historic Site and the South River from sea level rise and increasing storms.

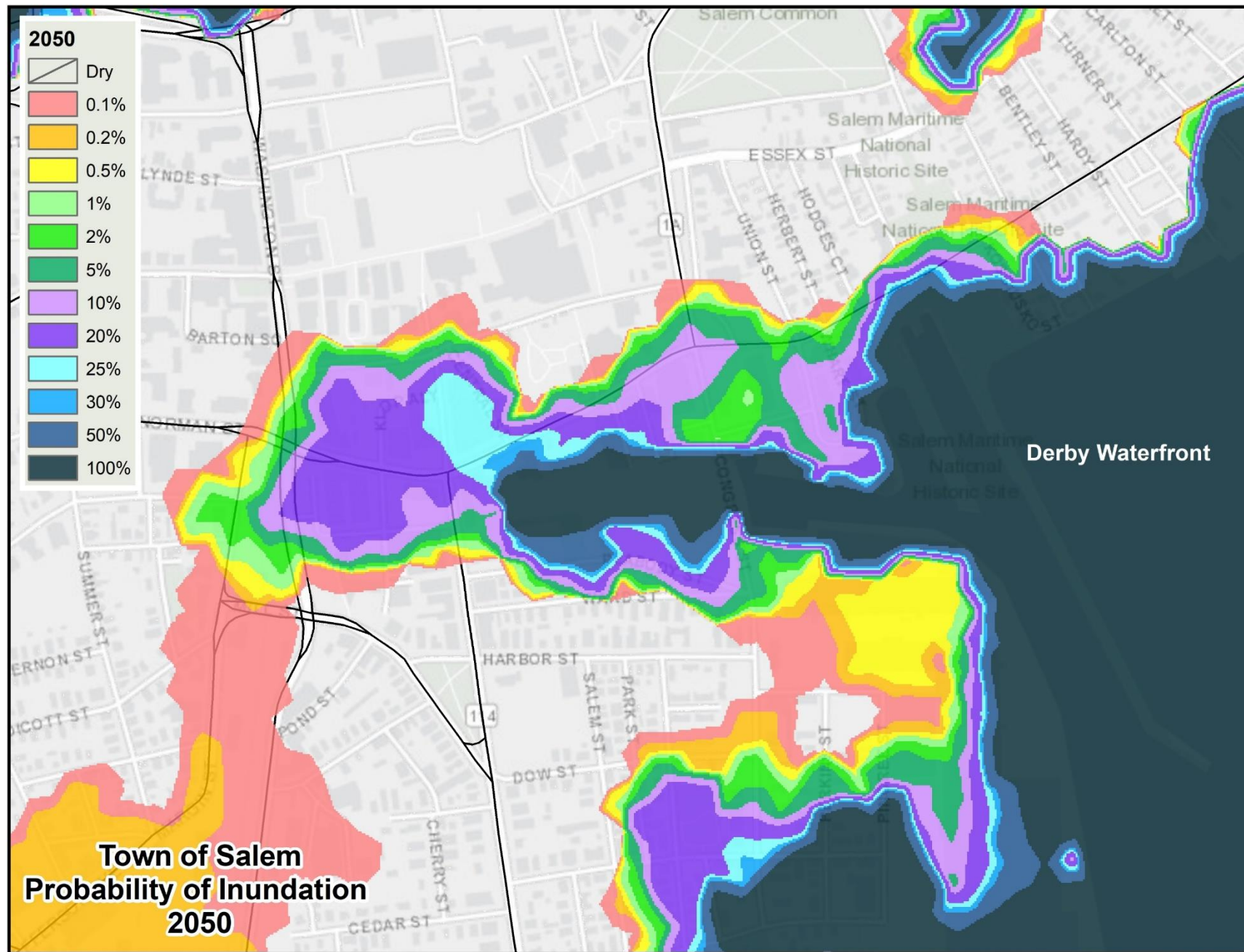


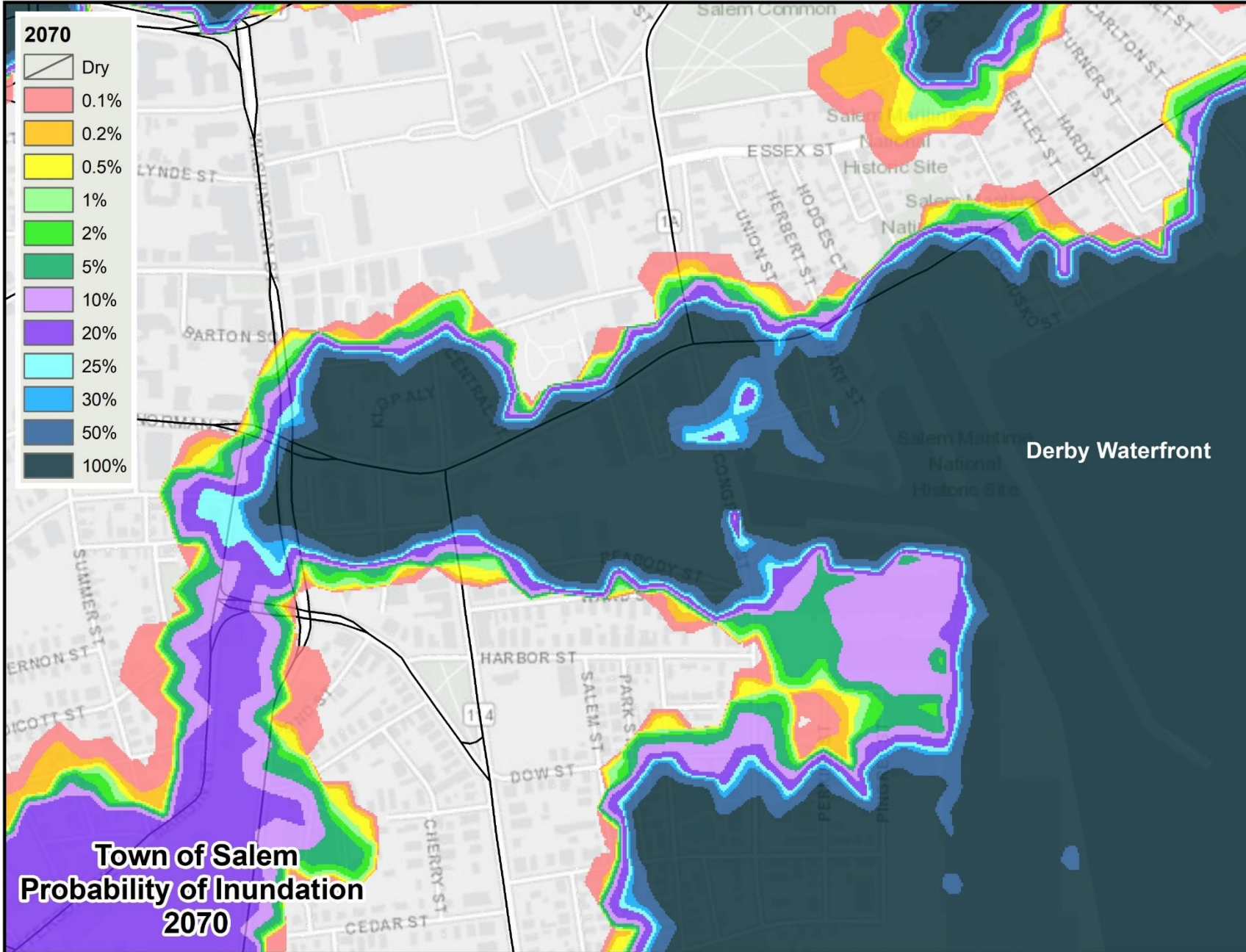
Derby Waterfront and South River

To view the full recorded presentation, go to www.salemsound.org

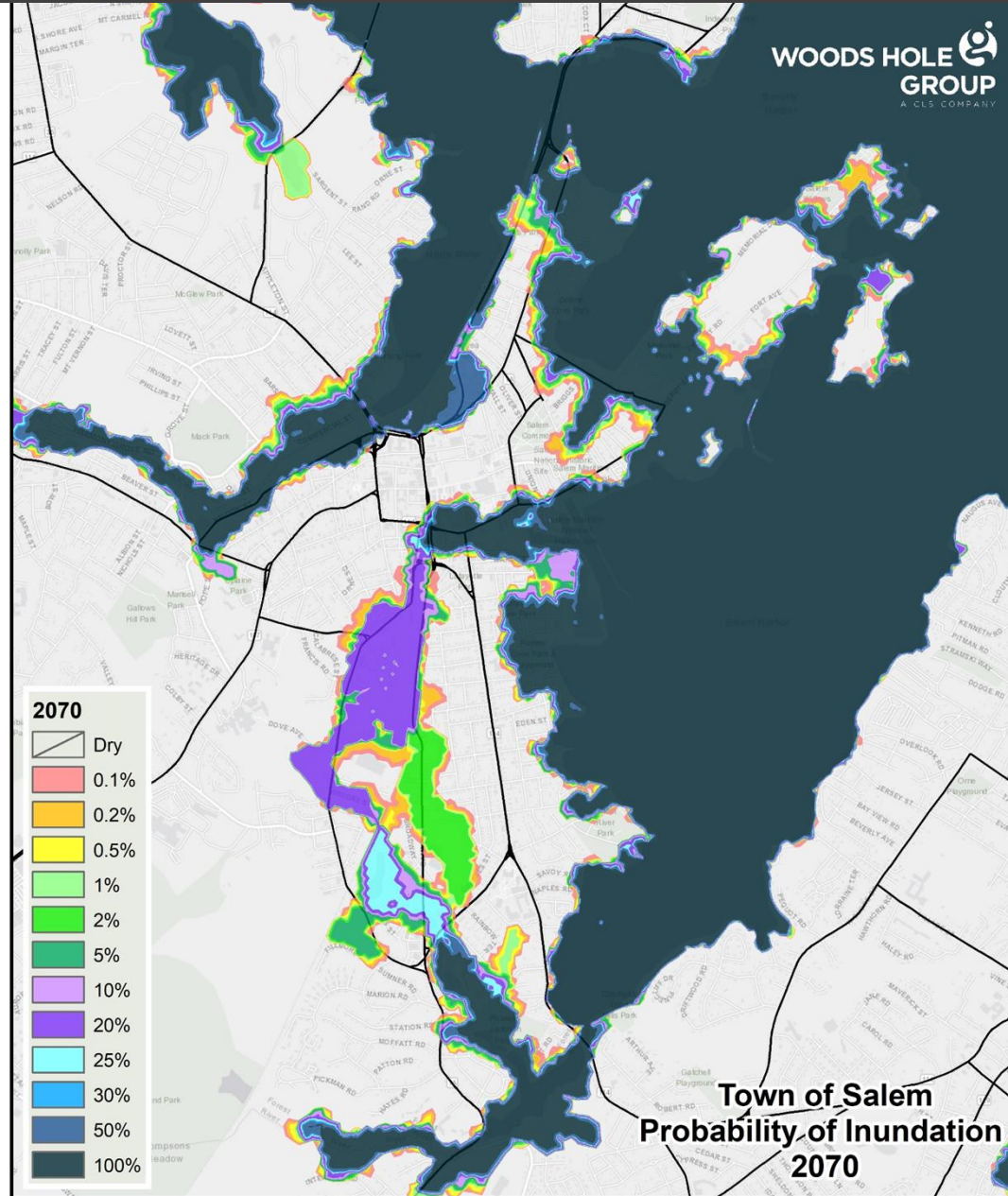








The 1875 US Coast and Geodetic Survey map excerpt shows the South River and the Forest River before the area was filled. Based on elevations and historical accounts, the two rivers became one at times of intense flooding.

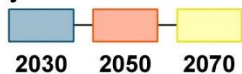


DERBY WATERFRONT & SOUTH RIVER



Legend

Projected MHHW Tidal Benchmarks

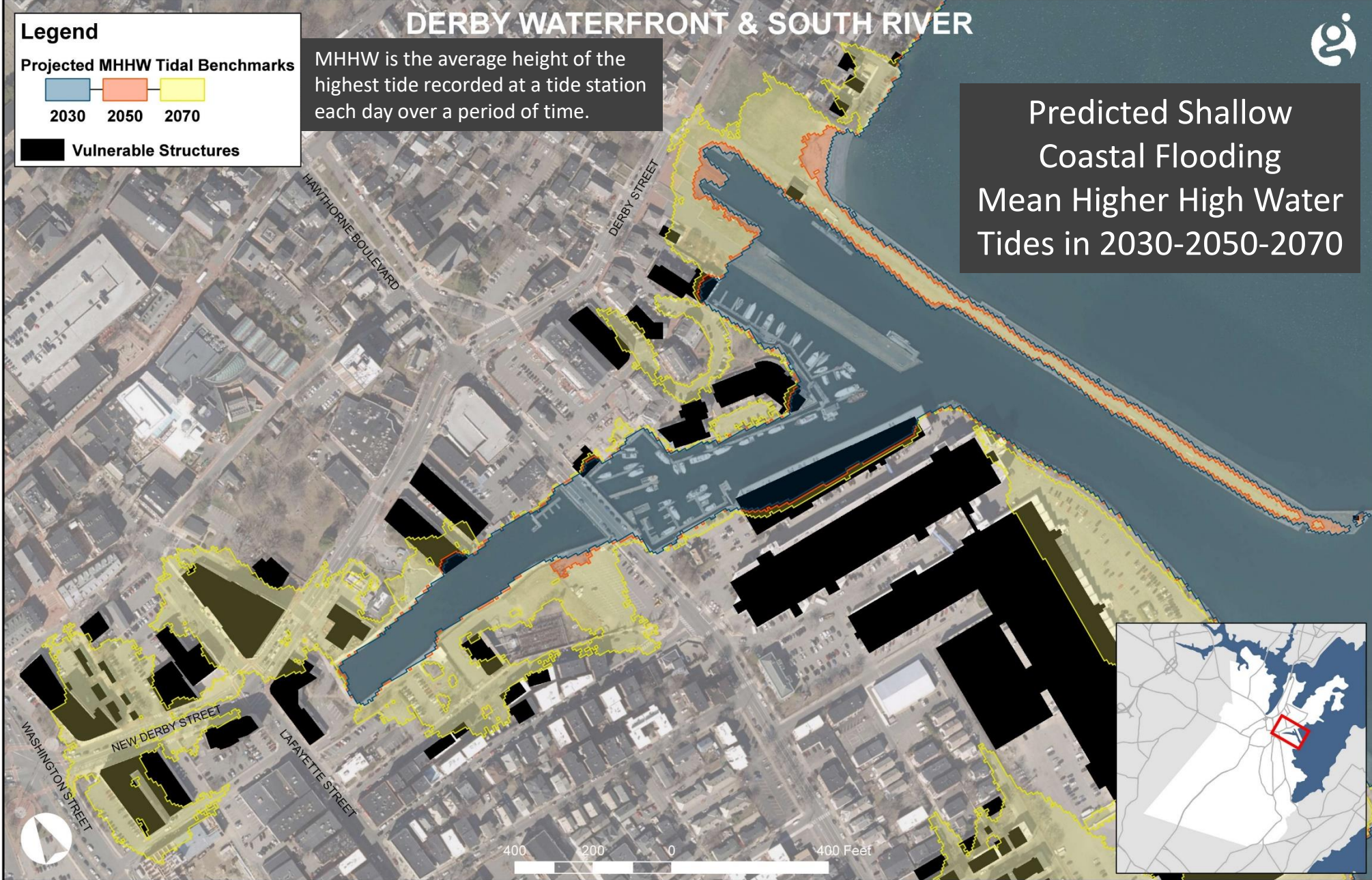


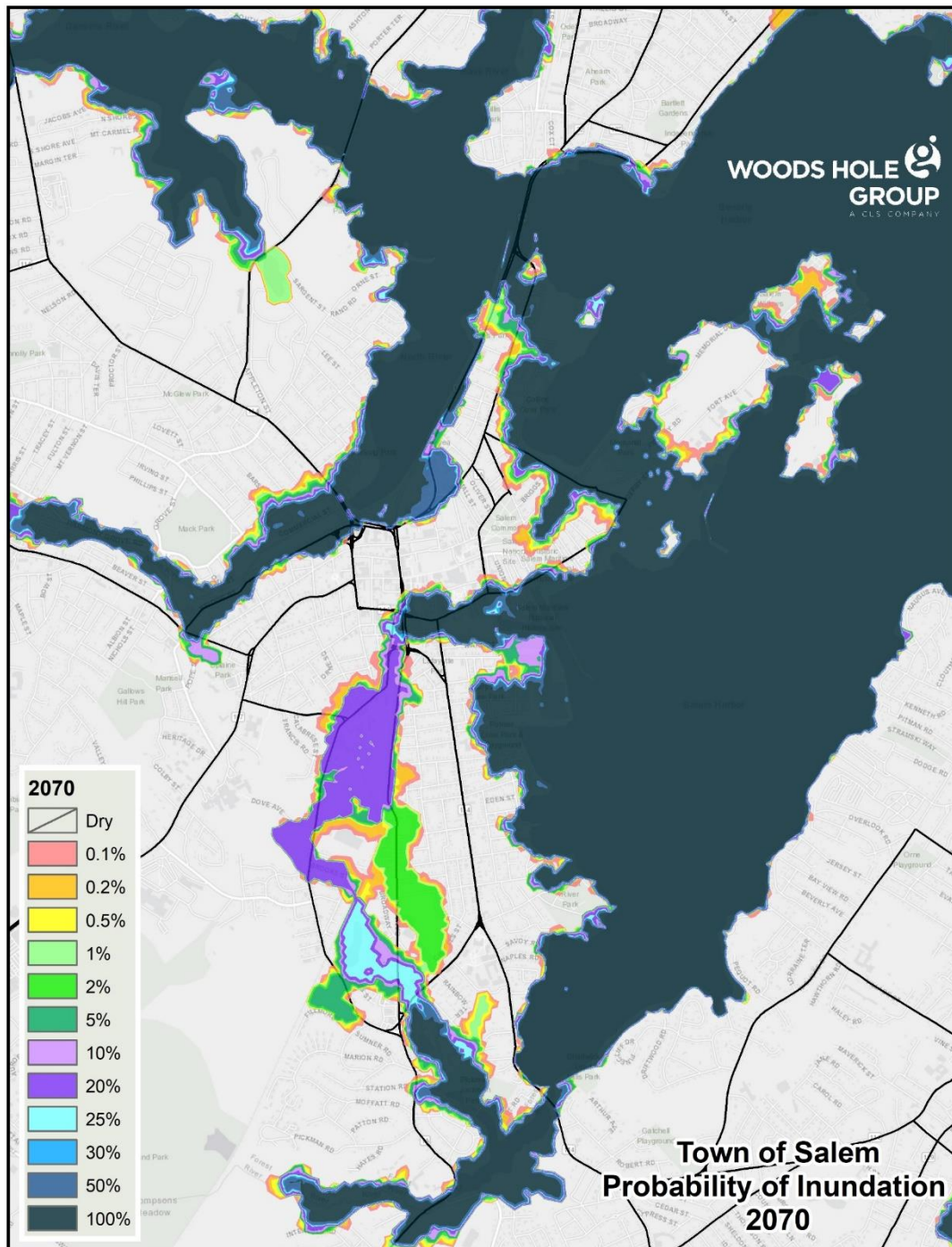
2030 2050 2070

Vulnerable Structures

MHHW is the average height of the highest tide recorded at a tide station each day over a period of time.

Predicted Shallow Coastal Flooding Mean Higher High Water Tides in 2030-2050-2070





For more information on

*Mapping Future Flood Risk and
Prioritizing Coastal Resilience
for Salem MA*

Contact Barbara Warren

978-741-7900

barbara.warren@salemsound.org

