Appendix E: Completed Mitigation Actions

This section includes the mitigation actions that have been completed over the years by the participating jurisdictions.

The following provides a summary of progress achieved with regard to the strategies adopted through the 2011 Brunswick County Multi-Jurisdictional Hazard Mitigation Plan.

Brunswick County

Strategy P-1: Set up program to advise/assist property owners in retrofitting homes, businesses, and institutional facilities. (Retrofitting is defined as any modification to an existing building or yard to protect the property from flood damage.) (CRS 320)

Progress: The Brunswick County Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, B26, B47

Strategy P-2: Continue/expand efforts to partner with area utility districts to encourage proper development of regional sewer systems.

Progress: Brunswick County has worked closely with local sewer districts to facilitate sound expansion over the last five years. All participating jurisdictions will continue to support County-wide infrastructure expansion through this plan update.

Status/Corresponding 2015 Strategy: BC2

Strategy P-3: When possible, ensure that no public facilities are proposed for flood hazard areas. Protect new critical facilities (e.g., schools, hospitals, fire stations, emergency shelters) to 2' above the 500-year flood elevation (5' above BFE). (CRS 430)

Progress: This strategy has been revised and will be maintained through the plan update.

Status/Corresponding 2015 Strategy: BC3

Strategy P-4: Participate in the voluntary purchase of land parcels located in hazard areas or rendered unbuildable by storms or other events, for the purpose of shorefront access.

Progress: The County, as well as participating jurisdictions, continue to except land gifts or donations as a mitigation tool. This strategy has been revised through this update.

Status/Corresponding 2015 Strategy: BC4

Strategy P-5: Continue program for evaluation and improvement of critical facilities (public and private) – roads, bridges, water, sewer, electricity, etc. – and critical services – fire, rescue, medical, etc.

Progress: Over the last five years, the County has annually reviewed the viability of critical facilities and services through implementation of the County Emergency Operations Plan (EOP). The County will continue to evaluate critical facilities and services through annual EOP practices, procedures and exercises. The strategy has been revised through this update.

Status/Corresponding 2015 Strategy: BC5

Strategy P-6: Maintain County Storm Water Ordinance (effective September 16, 2002) in conjunction with land use ordinances for compatibility of EPA Phase II NPDES requirements.

Progress: Brunswick County continues to maintain, review, and update as necessary the County Stormwater Management Ordinance. This effort will continue to serve as an active component of the County's NPDES Phase II Stormwater Program.

Status/Corresponding 2015 Strategy: BC6

Strategy P-7: Complete Community Rating System Application using Hazard Mitigation Plan components to fulfill application requirements.

Progress: Brunswick County has not completed an application to join the CRS to date. The County, as well as other non-Community Rating System (CRS) participants (refer to page 4-10 and 4-11 for a summary of participating communities) will consider applying for inclusion in the program through implementation of this plan update.

Status/Corresponding 2015 Strategy: BC7

Strategy P-8: Continue to address and strengthen approach to "scattered and sprawling, large lot subdivision activity," "unplanned commercial strip development," "sewage problems and sewage solutions," and "storm water runoff and drainage."

Progress: This strategy was completed through update and adoption of the County's Unified Development Ordinance within the last five years.

Status/Corresponding 2015 Strategy: Completed.

Strategy P-9: Strengthen the land use classification system by more closely defining allowed uses and designating certain areas as off limits to development.

Progress: The County reviews and updates the Land Use Plan and the Unified Development Ordinance on a regular basis. These efforts will continue; therefore, this strategy has been eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy P-10: Develop an open space plan; target key properties for an open space acquisition program. (CRS420)

Progress: Strategies P-8 through P-11 of the existing Brunswick County HMP address the issue of establishing and/or modifying Land Use Planning policy and regulatory mechanisms in an effort to promote sound development within known high hazard areas. These strategies have been simplified and formulated into a general statement of intent regarding review and update of County and municipal Land Use Plans and relevant land development codes.

Status/Corresponding 2015 Strategy: BC4, BC8, BC10, BC27

Strategy P-11: Strengthen policies regarding directing urban level growth to appropriate locations where services can be provided.

Progress: The County periodically reviews and updates its Land Use Plan and Unified Development Ordinance. This strategy has been simplified and formulated into a general statement of intent regarding review and update of County and municipal Land Use Plans and relevant land development codes.

Status/Corresponding 2015 Strategy: BC8, BC10

Strategy P-12: Review and update as necessary the Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events (CRS 430). Consider raising the minimum flood protection level from 1' above base flood elevation to 2' or more above BFE. All substantially damaged buildings should be elevated to this level (CRS 430).

Progress: The County, as well as all participating jurisdictions, reviews and updates their respective Flood Damage Prevention Ordinances as deemed necessary, or when mandated by NCDPS and/or FEMA through the NFIP. Additionally, all existing locally adopted Base Flood Elevation standards will be maintained.

Status/Corresponding 2015 Strategy: BC9

Strategy P-13: Evaluate the zoning ordinance for its ability to target and direct growth to areas consistent with the land classification map, the water distribution system, and existing and future sewer systems.

Progress: Brunswick County reviewed and updated its Unified Development Ordinance in March 2015. The County and all participating jurisdictions, will continue to review, and update as necessary, their respective Zoning and Subdivision regulations to ensure that regulatory standards remain aligned with local and regional Future Land Use Planning policy documents.

Status/Corresponding 2015 Strategy: BC10

Strategy P-14: Continue efforts to revise, update, and improve subdivision regulations particularly with regard to open space and tree preservation.

Progress: Brunswick County reviewed and updated its Unified Development Ordinance (which includes subdivision regulations) in March 2015. The County and all participating jurisdictions will continue to review and update, as necessary, their respective Zoning and Subdivision regulations to ensure that regulatory standards remain aligned with local and regional Future Land Use Planning policy documents.

Status/Corresponding 2015 Strategy: BC10, BC12

Strategy P-15: Continue to improve road access standards to protect the integrity of significant traffic- carrying roadways throughout the County.

Progress: This strategy has been revised to more specifically address the deficiencies and needs relevant to all state maintained right-of-ways throughout the County.

Status/Corresponding 2015 Strategy: BC11

Strategy P-16: Employ specific provisions of the zoning ordinance, subdivision regulations, and infrastructure improvement plans to encourage a town and country development pattern.

Progress: The general intent of this strategy is being carried forward into the 2015 update; however, the terminology has been modified to more clearly define the desired outcome regarding land development types enabled through both County and municipal land development codes.

Status/Corresponding 2015 Strategy: BC10, BC12

Strategy P-17: Continue to count building improvements cumulatively (maintain permit history so when cumulative improvements equal 50% of building value (substantial improvement) building must be brought up to flood protection standards for new construction) with a goal to eventually have all flood hazard endangered buildings brought up to flood protection standards (CRS 430).

Progress: This strategy has been eliminated from the plan update due to the difficulty in logistically maintaining accurate information necessary to enforce this standard. Additionally, it was decided that imposing this standard on property owners would be excessively burdensome and costly.

Status/Corresponding 2015 Strategy: Eliminated

Strategy P-18: Review rebuilding activities after major storm events to determine how revisions to existing policies and procedures could help minimize repetitive losses.

Progress: This strategy is still in place and a function of the response and recovery process outlined in the County's Emergency Operations Plan.

Status/Corresponding 2015 Strategy: BC13

Strategy P-19: Continue to require and maintain FEMA elevation certificates for all permits for new buildings or improvements to buildings on lots including any portion of the 1 00-year floodplain (CRS 310).

Progress: The County, as well as all participating municipalities, continues to require the submittal of FEMA Elevation Certificates for development within the defined Flood Hazard Area. This strategy has been updated to reflect current regulatory and record keeping requirements.

Status/Corresponding 2015 Strategy: BC14

Strategy P-20: Review written policies on water and sewer system extensions and tap on policies to ensure that the County is adequately addressing and discouraging inappropriate development in sensitive environmental areas and areas prone to flood or storm surge hazards.

Progress: The County, as well as municipal jurisdictions operating a central water system periodically review extension and tap policies to potentially limit development density in areas identified as high hazard. This strategy will be continued through this planning process.

Status/Corresponding 2015 Strategy: BC15

Strategy P-21: Continue to allot capital funding for the implementation of hazard mitigation activities.

Progress: The County, as well as all participating jurisdictions, maintain a policy of taking the results and data associated with this plan into account when making decisions regarding capital expenditures relating to infrastructure and facility expansion and development.

Status/Corresponding 2015 Strategy: BC16

Strategy P-22: Consider a shoreline overlay district to include requirements for more intense review of proposed drainage, and limitation on the type of land uses allowed within the overlay district.

Progress: This strategy has been eliminated due to the fact that establishment of an overlay district impacting the coastline would involve intergovernmental coordination among a number of Beach Towns. Achievement of an effective policy and resulting regulatory framework is not possible at this time.

Status/Corresponding 2015 Strategy: Eliminated

Strategy P-23: Implement specific zoning standards to discourage or prohibit floating homes from locating in public trust waters.

Progress: This strategy has been eliminated, due to the fact that Brunswick County does not have the jurisdiction to zone public trust waters.

Status/Corresponding 2015 Strategy: Eliminated

Strategy P-24: Inventory existing lots and structures within flood hazard areas to establish baseline data regarding current state of development.

Progress: This effort was carried out during the former planning process. The County will continue to monitor and update the vulnerability analysis presented in this plan as an indicator of development subject to threats associated with natural disasters. This data will be factored into discussions associated with future Comprehensive Planning efforts at the County and municipal levels.

Status/Corresponding 2015 Strategy: BC10, BC17

Strategy P-25: Continue to support greater residential densities in areas that are accessible to water and/or sewer service(s). Agricultural and low-density residential land uses should be located in areas that do not have central water or sewer service.

Progress: This strategy has been eliminated through this update due to the extensive availability of central infrastructure services. Local Land Use Plan and Zoning Standards now serve as the predominant factor in dictating future built densities in both residential and non-residential zoning districts.

Status/Corresponding 2015 Strategy: Eliminated

Strategy P-26: Support commercial forestry activities, provided significant adverse impacts on natural resource systems are fully mitigated. Such activities should be considered in accordance with the standards and recommendations of the US Forest Service. The County also advocates the voluntary participation of commercial forestry interests in the State of North Carolina's best management practice program for forestry management.

Progress: This strategy is still being carried out in the County and will be incorporated into the plan update.

Status/Corresponding 2015 Strategy: BC18

Strategy P-27: Continue to support beach municipalities in maintenance/protection of beaches as well as protecting shorelines under County jurisdiction.

Progress: Brunswick County maintains a general statement of support regarding shoreline stabilization efforts; however, specific solutions and associated cost considerations will be specifically addressed by each relevant barrier island community participating in this plan update.

Status/Corresponding 2015 Strategy: BC19

Strategy P-28: Continue to require 404 wetlands and 100-year floodplain areas to be delineated on all preliminary subdivision plats for lands within and adjacent to the proposed subdivision.

Progress: The County, as well as all participating municipal jurisdictions, continues to support and enforce all US Army Corps of Engineers 404 Wetland Regulations.

Status/Corresponding 2015 Strategy: BC20

Strategy P-29: Develop a tree preservation ordinance that will address the following: – Increase buffering along areas of deforestation or clear cutting; – Provide vegetative medians as a best management plan as highways are expanded or improved when feasible; – Educate the public of the benefits of controlled burns on "natural areas" by certified professional foresters.

Progress: This strategy has been completed through development of the County Unified Development Ordinance.

Status/Corresponding 2015 Strategy: Completed

Strategy P-30: Continue to undertake the following actions to support maintenance of safe hurricane evacuation routes: – Identify and support improvements to roads that serve as hurricane evacuation routes; – Perform routine bridge and culvert maintenance, and raise bridges over streams that have documented flooding during significant rain events; – Support the planning and implementation of regional roadways; – Support the construction of a second Oak Island bridge, and new bridge for Sunset Beach and the Southern Bridge for the Cape Fear River.

Progress: The County continues to work with NCDPS, NCDOT, and all participating municipalities to assure that evacuation routes are effective, maintained and relayed to the public in an effective manner. This is reflected through the plan update.

Status/Corresponding 2015 Strategy: BC21

Strategy P-31: Support development within areas susceptible to sea level rise, shoreline erosion, and/or wetland loss which takes into consideration such conditions upon initial development. In the event such development is later threatened by shoreline loss, the County shall support the AEC use standards governing shoreline protection and management.

Progress: This strategy has been eliminated in response to the current state mandated prohibition on directly addressing sea level rise through plans and/or public policy documents and studies.

Status/Corresponding 2015 Strategy: Eliminated

Strategy P-32: Continue to support the installation of properly engineered and permitted bulkheads to protect against erosion and sea level rise.

Progress: This strategy has been eliminated in response to the current state mandated prohibition on directly addressing sea level rise through plans and/or public policy documents and studies.

Status/Corresponding 2015 Strategy: Eliminated

Strategy P-33: Continue to support the US Army Corps of Engineers' regulations, the applicable guidelines of the Coastal Area Management Act, and the use of local land use ordinances to regulate development of fresh water swamps, marshes, and 404 wetlands.

Progress: The County, as well as all participating municipal jurisdictions, continues to support and enforce all US Army Corps of Engineers 404 Wetland Regulations, CAMA Coastal Development Regulations and all other Federal, State and local regulations aimed at protecting the environmental quality of swamps and wetlands.

Status/Corresponding 2015 Strategy: BC22

Strategy P-34: Support the relocation of structures endangered by erosion, if the relocated structure will be in compliance with all applicable policies and regulations.

Progress: The County, in collaboration with all participating barrier island beach communities, continues to support and relocate when feasible structures imminently threatened by shoreline erosion.

Status/Corresponding 2015 Strategy: BC23

Strategy P-35: Continue to enforce the Brunswick County floodplain ordinance and participate in the National Flood Insurance Program. Subdivision regulations will be enforced – requiring elevation monuments to be set so that floodplain elevations can be more easily determined.

Progress: The County, as well as all participating jurisdictions, reviews and updates their respective Flood Damage

Prevention Ordinances as deemed necessary, or when mandated by NCDPS and/or FEMA through the NFIP. Additionally, all existing locally adopted Base Flood Elevation standards will be maintained.

Status/Corresponding 2015 Strategy: BC24

Strategy P-36: Continue to support the guidelines of the Coastal Area Management Act and the efforts and programs of the NC Department of Environment and Natural Resources, Division of Coastal Management, and the Coastal Resources Commission to protect the coastal wetlands, estuarine waters, estuarine shorelines, and public trust waters of Brunswick County.

Progress: The County, as well as all participating municipal jurisdictions, continues to support and enforce all US Army Corps of Engineers 404 Wetland Regulations, CAMA Coastal Development Regulations and all other Federal, State and local regulations aimed at protecting the environmental quality of swamps and wetlands.

Status/Corresponding 2015 Strategy: BC25

Strategy PP-1: Continue to acquire destroyed or substantially damaged properties and relocate households. Seek Federal and State funding (voluntary program). (CRS 520/420)

Progress: The County has not acquired any substantially damaged properties over the last five year planning period. The County, in collaboration with participating municipal jurisdictions, will continue pro-actively treating threatened residential structures as defined through the updated strategies.

Status/Corresponding 2015 Strategy: BC26

Strategy PP-2: Integrate publicly acquired land into public park and greenway systems. (CRS 420)

Progress: The County has not acquired any new land to be dedicated to public/open space use over the last five year planning period. Brunswick County will maintain a policy of acquiring land or accepting land gifts/donations in an effort to expand upon the County's greenway system.

Status/Corresponding 2015 Strategy: BC27

Strategy PP-3: Consider establishing an involuntary program to acquire properties susceptible to flood damage. (CRS 420/510)

Progress: This strategy has been eliminated through this update due to a lack of political will regarding this issue.

Status/Corresponding 2015 Strategy: Eliminated

Strategy PP-4: Identify properties for potential public acquisition and establish a list of priority properties for acquisition following subsequent natural disasters.

Progress: This strategy was deemed redundant to strategy BC26 defined through the plan update; therefore, Strategy PP-4 has been eliminated.

Status/Corresponding 2015 Strategy: Eliminated

Strategy PP-5: Consider establishing a program for purchase of development rights for floodplain properties. (CRS 420) (Possible partial or full tax deduction for charitable donation by property owner(s)).

Progress: This strategy has been eliminated due to the fact that the transfer of development rights are not legislatively enabled in North Carolina.

Status/Corresponding 2015 Strategy: Eliminated

Strategy PP-6: Require residential construction to meet latest wind-resistance standards; encourage replacement of double-wide garage doors to improve wind resistance.

Progress: Strategies PP-6 through PP-10 all deal with standards and regulations established under the NC State Building Code. The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required.

Status/Corresponding 2015 Strategy: BC28

Strategy PP-7: Require new masonry chimneys >6' above roof to have continuous vertical reinforcing steel to help resist high winds. Retrofit existing chimneys.

Progress: Strategies PP-6 through PP-10 all deal with standards and regulations established under the NC State Building Code. The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required.

Status/Corresponding 2015 Strategy: BC28

Strategy PP-8: Ensure doorframes are securely anchored; especially double doors that can be very dangerous in high winds.

Progress: Strategies PP-6 through PP-10 all deal with standards and regulations established under the NC State Building Code. The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required.

Status/Corresponding 2015 Strategy: BC28

Strategy PP-9: Make sure that architectural features are designed, manufactured and installed to limit wind-borne debris.

Progress: Strategies PP-6 through PP-10 all deal with standards and regulations established under the NC State Building Code. The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required.

Status/Corresponding 2015 Strategy: BC10, BC28

Strategy PP-10: Encourage use of wind-resistant construction techniques used in coastal regions.

Progress: Strategies PP-6 through PP-10 all deal with standards and regulations established under the NC State Building Code. The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required.

Status/Corresponding 2015 Strategy: BC28

Strategy PP-11: Consider a policy for contractors to pick up building material and building debris prior to coastal storms.

Progress: Brunswick County promotes and carries out actions related to post-disaster debris management for homeowners and contractors through the County's Emergency Operations Plan. The County will continue to maintain a policy of educating and promoting the removal of construction materials from building sites prior to approaching coastal storm events.

Status/Corresponding 2015 Strategy: BC29

Strategy PP-12: Continue to enforce minimum housing code to require the improvement of substandard housing.

Progress: The County, as well as participating municipal jurisdictions, continues to maintain and enforce minimum housing code standards in an effort to maintain a stable housing stock.

Status/Corresponding 2015 Strategy: BC30

Strategy NR-1: Continue providing density credits for developments that establish perpetual easements for ecologically sensitive lands.

Progress: This strategy has been incorporated into the Brunswick County Unified Development Ordinance, and will be maintained through this plan update.

Status/Corresponding 2015 Strategy: BC31

Strategy NR-2: Enhance and develop new public accesses to waterway resources in a manner as to protect sensitive environment areas from development and implement the priority recommendations contained in the Brunswick County Shoreline Access Plan Update.

Progress: Over the last five years, Brunswick County has not established any new public access sites. The County in collaboration with participating municipal jurisdictions will continue to pro-actively seek out opportunities to increase public access sites. These efforts will focus on portions of the County deemed to be either environmentally sensitive or located within defined high hazard areas.

Status/Corresponding 2015 Strategy: BC32

Strategy NR-3: Continue to implement policies/programs that protect and maintain wetlands.

Progress: The County, as well as all participating municipal jurisdictions, continues to support and enforce all US Army Corps of Engineers 404 Wetland Regulations, CAMA Coastal Development Regulations and all other Federal, State and local regulations aimed at protecting the environmental quality of swamps and wetlands. This strategy was considered redundant to strategy P-36 above and was eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy ES-1: Improve Hazard Warning and Response Plan (warning and evacuating critical facilities, getting persons out of floodprone or isolated areas, controlling vehicles on evacuation routes, evacuation of hazard materials). (CRS 610)

Progress: Brunswick County Emergency Management continues to annually review and, when necessary and practicable, improve upon existing Hazard Warning and Response Plans associated with the County Emergency Operations Plan.

Status/Corresponding 2015 Strategy: BC33

Strategy ES-2: Continue and expand the program to retrofit schools and other public facilities to serve as emergency shelters.

Progress: Brunswick County Emergency Management continues to work closely with NCDPS and the American Red Cross to expand upon the County's existing sheltering inventory. These efforts not only work towards increasing the number of facilities, but also the suitability and effectiveness of existing shelters.

Status/Corresponding 2015 Strategy: BC34

Strategy ES-3: Use State grant funds to retrofit public properties as shelters.

Progress: The County has been unable to secure grant funds to retrofit public facilities as shelters. Due to this fact, this strategy is being eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy ES-4: Provide training for "first responders" in identifying and reporting opportunities to mitigate the effects of future disasters.

Progress: The County has pro-actively addressed this strategy through annual implementation of the County EOP. The first responders receive training on an ongoing basis in accordance with state regulations.

Status/Corresponding 2015 Strategy: BC35

Strategy ES-5: Work with industry to develop emergency response plans for specific industries and ensure that all plans are fully coordinated with County emergency management plans.

Progress: The County works closely with municipalities and the business community to expand preparedness training beyond the scope of local government staff and first responders. These efforts are carried out by local public safety officials and the County Local Emergency Planning Committee (LEPC).

Status/Corresponding 2015 Strategy: BC36

Strategy ES-6: Ensure adequate evacuation time in case of major hazard event.

Progress: Brunswick County Emergency Management works closely with NCDOT and NCDPS through annual EOP updates and exercises to ensure that all defined evacuation routes can handle projected capacities.

Status/Corresponding 2015 Strategy: BC37

Strategy ES-7: Evaluate areas with limited evacuation capacity and pursue methods of improving capacity.

Progress: Brunswick County Emergency Management works closely with NCDOT and NCDPS through annual EOP updates and exercises to ensure that all defined evacuation routes can handle projected capacities.

Status/Corresponding 2015 Strategy: BC37

Strategy ES-8: Protect new critical facilities by floodproofing or locating outside the 500-year floodplain.

Progress: This strategy was deemed vague and redundant to other strategy statement defined throughout the existing plan and was eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy ES-9: Establish program for evaluation and improvements of critical services and facilities.

Progress: This strategy was deemed vague and redundant to other strategy statement defined throughout the existing plan and was eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy ES-10: Evaluate flood or access problems for critical facilities; develop recommendations for protecting critical facilities. Identify alternative command posts.

Progress: This strategy was deemed vague and redundant to other strategy statement defined throughout the existing plan and was eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy S-1: Continue debris removal program to correct problem sites.

Progress: The County, as well as all participating municipal jurisdictions, continues to maintain contracts with pre-qualified disaster debris management companies. These contractors assist the County, in collaboration with NCDPS and NCDENR, in identifying and certifying appropriate disposal sites.

Status/Corresponding 2015 Strategy: BC38

Strategy S-2: Continue to support the dredging of waterways to improve function and water quality.

Progress: This strategy was removed through this update. The statement was deemed arbitrary and lacked adequate justification and/or direction.

Status/Corresponding 2015 Strategy: Eliminated

Strategy S-3: Continue to maintain/enforce an overall cap of 5% on post development stormwater discharge increase over pre-development conditions.

Progress: This strategy continues to be maintained and enforced through the County Stormwater Management Ordinance required through the NPDES Phase II Stormwater Management Program.

Status/Corresponding 2015 Strategy: BC39

Strategy S-4: Continue to enforce and strengthen the County appearance code concerning removal of potential projectiles/debris such as junked motor vehicles and mobile homes, and dilapidated housing.

Progress: The County continues to maintain a nuisance and debris management code; however, this program was not deemed an effective mitigation measure. Addressing nuisance issues within unincorporated portions of the County is very difficult to effectively accomplish.

Status/Corresponding 2015 Strategy: Eliminated

Strategy S-5: Continue to provide funding support for the artificial reef program.

Progress: This strategy has been eliminated due to a lack of political will under the County's current administration.

Status/Corresponding 2015 Strategy: Eliminated

Strategy S-6: Continue to support efforts to place spoil materials from channel maintenance and dredging on Brunswick County beaches, including each of the incorporated municipalities, as warranted.

Progress: The County, as well as all coastal beach communities, continues to strongly support the US Army Corps of Engineers policy of depositing channel maintenance dredge spoils on adjacent beachfront communities.

Status/Corresponding 2015 Strategy: BC40

Strategy S-7: Section 206 Lower Lockwood Folly River Aquatic Habitat Restoration Project. (Removal of sediment bars to increase tidal flushing and improve aquatic habitat.)

Progress: Brunswick County continues to support the activities and funding associated with this project aimed at habitat restoration along the Lockwood Folly River. This effort not only serves to improve environmental conditions, but also bolster the wetland as an additional buffer against storm surge and excessive riverine flooding.

Status/Corresponding 2015 Strategy: BC41

Strategy S-8: Complete phase-in of EPA Phase II requirements.

Progress: The County continues to maintain its NPDES Phase II Stormwater permit by carrying out all activities defined under the program. This permit will continue to be updated on a five year cycle.

Status/Corresponding 2015 Strategy: BC42

Strategy PI-1: Develop a tracking system to evaluate progress and revise mitigation activities as necessary. Track benefits in flood loss reduction.

Progress: This strategy has been eliminated primarily due to the fact that this process is clearly spelled out within the context of Section 7 of the plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy PI-2: Produce an annual progress report on how well the plan is being implemented – send the report with the annual CRS re-certification and submit a copy to NC Division of Emergency Management.

Progress: This strategy has been eliminated primarily due to the fact that this process is clearly spelled out within the context of Section 7 of the plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy PI-3: Establish a 5-year schedule for reviewing and updating the hazard mitigation plan.

Progress: This strategy has been eliminated primarily due to the fact that this process is clearly spelled out within the context of Section 7 of the plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy PI-4: Preliminary mapping of the Lumber River Basin has been completed and is under review for adoption. The Cape Fear River Basin mapping is ongoing. Review of the preliminary maps can be viewed at www.ncfloodmaps.com.

Progress: The County, as well as all participating municipal jurisdictions, will review and ultimately adopt updated Flood Insurance Rate Maps as they are prepared and provided through the NC/FEMA National Flood Insurance Program. These efforts will also potentially involve updates to the County and Municipal Flood Damage Prevention Ordinances.

Status/Corresponding 2015 Strategy: BC9, BC24, BC43

Strategy PI-5: Incorporate new FEMA digital FIRMs into the County GIS. (CRS 320)

Progress: As new FIRM's are developed and adopted, the updated maps are incorporated into County and municipal GIS systems. Updated FIRM's will also be available through the NCONE Mapping Service.

Status/Corresponding 2015 Strategy: BC43

Strategy PI-6: Develop and implement a hazard awareness program (elevation certificates, FIRM data, bulletin on property protection measures and flood insurance, etc.) that is available through the County's website www.brunsco.net. (CRS 310/320/330/340/440)

Progress: This strategy was deemed redundant to other activities and strategy statements provided throughout the

updated County-wide strategies table. Due to this fact, it has been eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy PI-7: Establish locations for flood awareness signs – shown elevations of high water during/after Hurricane Floyd, the base flood, and the base flood plus 2'. Signs should be surveyed to serve as elevation reference marks.

Progress: The County will attempt to make this a higher priority over through the implementation of this plan update. Locating signage regarding historical flood levels provides a reminder to local citizens about the dire consequences associated with hurricanes and associated tropical storm events.

Status/Corresponding 2015 Strategy: BC44

Strategy PI-8: Expand efforts to disseminate flood insurance rate maps to realtors, developers, financial institutions, and insurance agencies.

Progress: The County, as well as participating municipalities, continue to work closely with real estate agents, contractors and developers in an effort to educate potential property owners about the dangers associated with development in defined flood hazard areas.

Status/Corresponding 2015 Strategy: BC45

Strategy PI-9: Early Warning Systems/Dissemination of information regarding need to seek shelter in safe room when high winds expected.

Progress: The County maintains and annually reviews the effectiveness of its early warning system. This system is utilized to provide accurate and up to date notifications about rapidly changing and severe weather conditions impacting the County and region overall.

Status/Corresponding 2015 Strategy: BC46

Strategy PI-10: Establish and maintain retrofitting techniques and publicize in the public libraries, and also through citizen newsletters. (CRS 330/350/360)

Progress: The County in collaboration with municipal jurisdictions continues to provide information regarding techniques for retrofitting structures subject to repetitive flooding associated with natural hazard events. These materials are available in local planning and inspections offices, as well as all public library facilities.

Status/Corresponding 2015 Strategy: BC47

Strategy PI-11: Cooperate with local, state, and federal efforts to inform the public of the anticipated effects of sea level rise.

Progress: This strategy has been eliminated in response to the current state mandated prohibition on directly addressing sea level rise through plans and/or public policy documents and studies.

Status/Corresponding 2015 Strategy: Eliminated

Brunswick County Completed Mitigation Actions (Added during the 2026 update)

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
BC1	Continue to maintain a library of materials focused on educating citizens, builders, realtors and developers about the dangers associated with floodplain development. This information will also outline sound techniques for floodplain development and floodproofing of existing structures. The County will also maintain staff educated on these issues to work with prospective builders.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Planning, Brunswick Co Emergency Services Municipal Administrations	General Funds	2026	Brunswick County: Completed – the County recently hired a Flood Plain Administrator who informs the public of flood plain hazards and maintains a library of educational materials for citizens. Bald Head Island: Bald Head Island participates in the NFIP's Community Rating System program and adopted a Program for Public Information (PPI) in April 2020. Belville: Library of materials is continuously available. Boiling Spring Lakes: Completed – Floodplain Administrator is a Certified Floodplain Manager and maintains a library of educational material both at City Hall and on the City website. Bolivia: See update provided by the County. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. Holden Beach: See update provided by the County. Leland: Completed; ongoing. Navassa: In progress: The town provides this service to citizens through the development review process. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach - Completed. The Town has a designated Flood Plain administrator who informs the public of flood plain

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								regulations and standards. Flood Plain and FEMA information is available on the Town's website. Varnamtown: See update provided by the County.
BC2	Continue/expand efforts to partners with area utility districts to encourage proper development of regional water and sewer systems.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Brunswick Co Sewer Districts Municipal Administrations	General Funds, NCDPS, NCDEQ	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Extensive partnership with H2GO and Brunswick County. Boiling Spring Lakes: Completed – part of day-to-day activities by coordinating with Brunswick County on all new water & sewer systems Bolivia: Action Deleted in 2021 Plan. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: The Town has not carried out this strategy, but intends to carry it out as funding becomes available.

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								The Town has worked closely with local water and sewer districts over the last five years to ensure access to a potable water supply. Holden Beach: See update provided by the County. Leland: Ongoing. Cooperative agreement between H2Go, Belville, and Leland has not been reached as of 2/27/2020. Navassa: Action deleted Deleted: The Town does not maintain any central infrastructure services Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach - Brunswick County is the water/sewer and Sunset Beach partners with Brunswick County on its efforts. This action should be removed from future plan updates. Varnamtown: See update provided by the County.

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BC3	When possible, ensure that no public and/or critical facilities are proposed for flood hazard areas. Additionally, when siting new public/critical facilities, the information and data outlined in this plan will be factored into the decision-making process.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations	General Funds	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Continue to work with Brunswick County in the areas floodplain administration and permitting. Boiling Spring Lakes: Completed – part of day-to-day activities during review process to ensure critical facilities are not proposed for flood hazard areas Bolivia: Action Deleted in 2021 Plan. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: Completed and ongoing. Municipal wastewater, EOC, fire stations, and other critical infrastructure is sited outside of

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								flood hazard areas. New infrastructure will also be sited outside of hazardous areas including flood zones to the maximum extent practicable. Navassa: In Progress: The Town will continue to utilize the Hazard Mitigation Plan, as well as other local planning tools to male determinations on the expansion and/or siting of critical facilities. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach - This activity is part of ongoing efforts. As such, it should be removed from future plan updates. Varnamtown: See update provided by the County.
BC4	In coordination with participating municipal jurisdictions, continue to accept gifts/donations of land located in hazard areas or rendered unbuildable by storms or other events, for the purpose of shorefront access.	Flood, Erosion	Moderate	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes,	Brunswick Co Administration Municipal Administrations	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action

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				Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: The Town of Belville is currently updating and expanding the riverwalk to add additional walking service and two new gazaboos with a walk way between the new gazaboos. Boiling Spring Lakes: See update provided by the County. Bolivia: Action Deleted in 2021 Plan. Calabash: Action deletedd Carolina Shores: See update provided by the County. swell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: Completed and ongoing. Leland has accepted donations of, purchased, and condemned properties in flood hazard and flood prone areas, with intentions to use as recreation areas with limited, if any, development. Navassa: The Town of Navassa continues to seek land donations in llow lying flood prone areas in

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								an effort to preserve open space and expand on passive/active recreation. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: This activity is part of the day to day operations of the Town. Varnamtown: See update provided by the County.
BC6	Maintain County and Town Stormwater Ordinances in conjunction with land use ordinances for compatibility of EPA Phase II NPDES requirements. These efforts should also include analysis of stormwater hotspots and potential remedies for these issues.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest,	Brunswick Co Administration Municipal Administrations	General Funds, NCDEQ	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Adopted Brunswick County stormwater ordinance. Boiling Spring Lakes: Boiling Spring Lakes- Stormwater Master

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				Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				Plan adopted; interlocal agreement with Brunswick County for enforcement of stormwater ordinance. Bolivia: Action Deleted in 2021 Plan. Calabash: Completed- Stormwater ordinance adopted and aligns in connection with our CAMA Land Use Plan. Updated 09/12/2023 Carolina Shores: Completed: Stormwater plan adopted Caswell Beach: See update provided by County The Town has collaborated with the County and NCDEQ to increase standards related to stormwater runoff. Holden Beach: See update provided by the County. Leland: Completed and ongoing. Navassa: The town Continues to maintain the Town's MS4 stormwater management program Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County.

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								Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach - Brunswick County administers the stormwater management program for residential subdivisions and nonresidential developments requiring stormwater management plans. The Town also requires stormwater management systems for new single family homes and expansions with greater than 200 sf of impervious surface. r and Sunset Beach partners with Brunswick County on its efforts. This action should be removed from future plan updates. Varnamtown: See update provided by the County.
BC7	Consider submitting an application to join the Community Rating System using Hazard Mitigation components to fulfill application requirements.	Flood	High	Brunswick County, Belville, Boiling Spring Lakes, Bolivia, Carolina Shores, Leland, Navassa, Northwest, Sandy Creek, St. James, Varnamtown	Brunswick Co Administration Municipal Administrations NCDPS	General Funds, NCDPS	Completed for Brunswick County – for those municipalities still considering joining the CRS, their implementation schedule will be before the next plan update in 2026.	Brunswick County: Completed The County joined the CRS and was awarded a Class Rating 8. The County will continue working to maintain or improve the rating.

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BC9	Review and update as necessary the Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events. Additionally, jurisdictions with freeboard requirements adopted at the local level will continue to enforce these minimum standards (Brunswick County freeboard requirements is two feet above BFE).	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick County Administration, Municipal Administrations	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: In 2019, Brunswick County FDPO was updated and adopted in 2019 to comply up-to-date State and Federal requirements. This activity is part of the day-to-day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Changes regarding 160D was completed. Revisions of the ordiance are amended as needed. Boiling Spring Lakes: Completed – updated FDPO adopted in 2018; 2' freeboard requirement enforced by Floodplain Administrator/Planning Administrator Bolivia: Town of Bolivia updated Flood Ordinance Plan in 2025. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County.

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								Holden Beach: See update provided by the County. Leland: Completed. Updated FDPO adopted for Leland in conjunction with updated FIRMS in Fall 2019. Leland retains a 2' freeboard requirement. Navassa: The Town continues to update it's Flood Damage Prevention Ordianance as updates are directedby FEMA and NCDPS Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach - This activity is part of the day-to-day permitting operation of the Town. Amendments are made as needed to remain compliant and the Town's one-foot freeboarding requirement is maintained. Varnamtown: See update provided by the County.
BC11	Work closely with NCDOT and the Cape Fear Regional Metropolitan Planning Organization (MPO) to improve road access standards and protect the integrity	All	Moderate	Brunswick County, Bald Head Island, Belville,	Brunswick Co Administration Municipal Administrations,	General Funds, NCDOT	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's

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	of significant traffic-carrying roadways throughout the County. These efforts should specifically target the issue of restriping highway intersections and lane markings for higher visibility.			Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	NC Department of Transportation Cape Fear Regional MPO			mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: The Town of Belville participates on all levels of involvement with the Wilmington MPO. The Town has representation on the following WMPO boards: Transportation Advisory Committee, The Technical Coordinating Committee, and the Bicycle & Pedestrian Advisory Committee. Boiling Spring Lakes: Completed – part of day-to-day activities – all development plans proposed on State roads sent to NCDOT for review; evacuation routes clearly established; Pedestrian Planning Grant obtained; lane and intersection markings to be done will all repaving projects on secondary and collector roads Bolivia: Not related; action deleted. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: The Town continues to collaborate with the County and NCDOT to address

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								this issue. Some progress has been made; however, it continues to be an issue. Holden Beach: See update provided by the County. Leland: Ongoing. Leland participates in transportation planning and project prioritization with the Wilmington MPO. Navassa: In progress: The Town works closely with NCDOT and the WMPO on the coordination of all transportation facility improvements Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: This activity is part of the day-to-day activity of the town. The Town works with NCDOT and Grand Strand Area Transportation planning efforts. This action should be removed from future plan updates. Varnamtown: See update provided by the County.

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BC12	Continue to consider incorporating the concept of cluster subdivision development into the County's subdivision regulations. Employing this development option, if adopted, will provide for a development pattern which minimizes impacts on environmentally sensitive portions of the County, including floodplains.	All	Moderate	Brunswick County	Brunswick Co Planning Brunswick Co Administration	General Funds, NCDEQ	Action deleted during 2021 plan update.	This activity is part of the day-to-day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates.
BC13	Review rebuilding activities after major storm events to determine how revisions to existing policies and procedures could help minimize repetitive losses.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations	General Funds, NCDPS, FEMA	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: See update provided by the County. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See update provided by the County. Calabash: Action deleted Carolina Shores: Ongoing as needed Caswell Beach: The Town addresses this issue on an ongoing basis.

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								Holden Beach: See update provided by the County. Leland: Completed and ongoing. Leland's updated flood damage prevention ordinance was adopted post-Florence and took into consideration additional and higher standards. New development is encouraged to limit development and disturbance in flood hazard areas. Navassa: D Town continues to rely on Brunswick County Emergency Management to improve upon emergency management operations. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC14	Maintain all FEMA Elevation Certificates, FEMA Floodproofing Certificates for non-residential structures, and where	Flood	High	Brunswick County, Bald	Brunswick Co Planning	General Funds	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As

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	applicable, a V Zone Design Certificate for all structures built or floodproofed since application to the CRS. V Zone Design Certification must be maintained only for structures built subsequent to January 1, 2013.			Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Municipal Administrations			such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: The Town keeps as many certifications as possible. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See update provided by the County. Calabash: Action deleted. Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: Ongoing. Leland had a computer server crash in 2006 and lost some Elevation Certificates; this was realized during the recent FEMA CAV. Leland intends to contract to perform elevation surveys on some structures for which no ECs are on file or available. Leland also is working to georeference all available ECs into a GIS map.

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								Navassa: The Town of Navassa relies on Brunswick Conty inspections for floodplain management services Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: As a CRS community, this is a day-to-day operation for the Town. This action should be removed from this and future updates. CRS audit performed in 2024 for final construction elevation certificates. Varnamtown: See update provided by the County.
BC15	Review written policies on water and sewer system extensions and tap on policies to ensure that the County is adequately addressing and discouraging inappropriate development in sensitive environmental areas and areas prone to flood or storm surge hazards.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach,	Brunswick Co Administration Brunswick Co Sewer Districts Municipal Administrations	General Funds, Sewer Districts	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County.

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				Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				Belville: The Town continuously reviews the Brunswick County Hazard Mitigation Plan, Brunswick County Stormwater Ordinance, and this Mitigation Action Plan. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See update provided by the County. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: The Town has not carried out this strategy, but intends to carry it out as funding becomes available Holden Beach: See update provided by the County. Leland: Ongoing Navassa: Action deleted: The Town does not maintain any central infrastructure services Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County.

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								St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC16	Consider the data and recommendations outlined in this plan when preparing updates to Capital Improvements Plans. All recommendations regarding capital expenditures will focus on siting all infrastructure and public facilities outside of the Flood Hazard Area.	All	Moderate	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations	General Funds	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: The Town will have the Planning Board review all plans to identify opportunities to integrate with capital projects during the budgeting process. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See update provided by the County. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: The Town has not carried out this strategy, but

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								intends to carry it out as funding becomes available. Holden Beach: See update provided by the County. Leland: Ongoing Navassa: In progress: Following adoption of this Mitigation Plan Update, the Town will reference the strategies in this plan in all annual capital budgeting and programming. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC17	Inventory existing lots and structures within flood hazard areas to establish baseline data regarding current state of development. These efforts will be incorporated into the comprehensive planning process.	Flood	Low	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina	Brunswick Co Administration Municipal Administrations	General Funds, NCDPS, NCDEQ	Completed	Brunswick County: Action completed. Flood Plain Administrator inventoried existing structures upon the recent flood map adoption on 7/31/20. Bald Head Island: See update provided by the County.

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				Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				Belville: The Town is currently setting up GIS database. We will be working to intergate this as one of the layers Boiling Spring Lakes- Addressed on an ongoing basis Bolivia: Town of Bolivia would like assistance with creating inventory within flood hazard areas. Calabash: Completed- CAMA Land Use Plan (LUP) updated 09/12/2023 Carolina Shores: Completed: CAMA LUP updated 2025 Caswell Beach: The Town addresses this issue on an ongoing basis due to shoreline migration and erosion. Holden Beach: See update provided by the County. Leland: Deferred due to staffing constraints. Navassa: In progress: The Town maintains a map inventory of flood prone areas and structures, this is updated asdeemed necessary.

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								Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: Completed with inventoried properties in 2020 Varnamtown: See update provided by the County.
BC18	Support commercial forestry activities, provided significant adverse impacts on natural resource systems are fully mitigated. Such activities should be considered in accordance with the standards and recommendations of the US Forest Service. The County also advocates the voluntary participation of commercial forestry interests in the State of North Carolina's best management practice program for forestry management.	All	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, James, Sunset Beach, Varnamtown	NC Forest Service, Brunswick Co Emergency Services Municipal Administrations	General Funds, NCFS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: The Town will promote and support this action if provide the opportunity. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: Action Deleted in 2021 Plan.

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								Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: Leland has taken no action on this item and probably does not intend to. Navassa: In progress: The town of Navassa continues to support these efforts. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC19	Continue to support beach municipalities in maintenance/protection of beaches as well as protecting shorelines under County jurisdiction.	Erosion	High	Bald Head Island, Caswell	Municipal Administrations	General Funds, USACE	Action deleted during 2021 plan update.	Brunswick: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities

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				Beach, Holden Beach, Ocean Isle Beach, Sunset Beach				and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Bolivia: Action Deleted in 2021 Plan. Does not apply to the Town of Bolivia. Bolivia: Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sunset Beach: See update provided by the County.
BC20	Continue to require 404 wetlands and 100-year floodplain areas to be delineated on all preliminary subdivision plats for lands within and adjacent to the proposed subdivision.	Flood	Moderate	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach,	Brunswick Co Administration Brunswick Co Emergency Operations Center, NCDEQ	General Funds, NCDPS, NCDEQ	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: The Town will continue to require 404 wetlands and 100-year floodplain delineation as outlined in the subdivision ordinance.

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				Sandy Creek, St. James, Sunset Beach, Varnamtown				Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See Update provided by the County. Bolivia would like assistance with this. Calabash: Action deleted Carolina Shores: Completed: Required by UDO Caswell Beach: Accomplished in 2019 with the creation of the Conservation Zone. The waters leading into the ICW are now protected by zoning restrictions. Holden Beach: See update provided by the County. Leland: Completed and ongoing Navassa: The Town continues to require this through the development review rpocess Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC22	Continue to support the US Army Corps of Engineers' regulations, the applicable guidelines of the Coastal Area Management Act, and the use of local land use ordinances to regulate development of freshwater swamps, marshes, and 404 wetlands.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations NCDEQ	General Funds, NCDEQ	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Action Deleted during 2021 Plan. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See update provided by the County. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: Accomplished in 2019 with the creation of the Conservation Zone. The waters leading into the ICW are now protected by zoning restrictions. Holden Beach: See update provided by the County. Leland: Completed and ongoing.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Navassa: In Progress: The Town continues to require this through the development review process Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC23	Support the relocation of structures endangered by erosion, if the relocated structure will be in compliance with all applicable policies and regulations. Additionally, the issue of tax base loss should be taken into account within municipal jurisdictions.	Landslide	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach,	Brunswick Co Planning NCDPS	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Action Deleted during 2021 Plan. Boiling Spring Lakes: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
				Sandy Creek, St. James, Sunset Beach, Varnamtown				Bolivia: See update provided by the County. Calabash: In progress- This element is ongoing when situations arise or opportunities present themselves Carolina Shores: Continuing as situation arise Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: N/A – there are no structures in Leland that are vulnerable to erosion. Navassa: See update provided by the County. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Varnamtown: See update provided by the County.
BC24	Continue to enforce respective flood damage prevention ordinances and participate in the National Flood Insurance Program. Subdivision regulations will be enforced – requiring elevation monuments to be set so that floodplain elevations can be more easily determined. Additionally, municipalities with freeboard requirements shall continue to enforce this standard locally.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Planning Brunswick Co Administration	General Funds	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: Bald Head Island added a one-foot freeboard requirement to its Flood Damage Prevention Ordinance in December 2019. Belville: Flood Ordinance adopted in 2019. Additionally, the Town adopted an interlocal agreement with Brunswick County for flood. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See Update provided by the County. Bolivia would like assistance with this. Calabash: Action deleted Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Leland: Completed and ongoing. Leland enforces its FDPO, including 2' freeboards standard, participates in the NFIP, and is working on joining the CRS. Navassa: The Town of Navassa relies on Brunswick Conty inspections for floodplain management services Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: Sunset Beach: This activity is part of the day-to-day activity of the town and should be removed from future plan updates. Varnamtown: See update provided by the County.
BC26	Continue to proactively seek out grant funding through NCEM and FEMA for mitigation of repetitive loss properties (RLPs) from future flood events. The County will maintain a list of RLPs and, on an annual basis, will apply for funding for all structures that meet cost-benefit thresholds as defined by FEMA. The County will assist all municipal	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina	Brunswick Co Administration Municipal Administrations	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
	jurisdictions in working through the structural mitigation grant funding process.			Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				Bald Head Island: See update provided by the County. Belville: Support Brunswick County with their efforts. Boiling Spring Lakes: Addressed on an ongoing basis Bolivia: See update provided by the County. Calabash: In progress- We will continue to look for and seek grant funding opportunities as necessary Carolina Shores: Continuing as needed Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: Ongoing. Leland has coordinated with Brunswick County for application for grant funding for repetitive loss buyback. Navassa: Deleted: The Town does nothave any repetitive loss properties

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC28	Continue to enforce the NC State Building Code. Local government inspections staff will recertify the NC State Building Code as the adopted local regulation applying to all construction activities on an annual basis. Through enforcement of the NC State Building Code, jurisdictions will work to ensure that all structures, including manufactured homes, are properly anchored to minimize potential impacts stemming from a disaster event.	Flood, Landslide	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Inspections Municipal Inspections	General Funds	Action deleted during 2021 plan update.	Brunswick County: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. This activity is part of the day-to-day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: Bald Head Island actively enforces the building code and adopt amendments and changes as required. Belville: Brunswick County handles the Town's inspections. Belville will continue to support

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								the County through an interlocal agreement. Belville also has adopted a minimum housing code ordinance. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See update provided by the County. Calabash: Action deleted. Carolina Shores: See update provided by the County. Caswell Beach: Caswell Beach actively enforce the building code and adopt amendments and changes as required. Holden Beach: See update provided by the County. Leland: Completed and ongoing. Leland currently has 6 full time building inspector positions, which includes the Chief Building Official who is also a Certified Floodplain Manager. Navassa: The Town continues to rely on Brunswick County Building Inspections for developmentt review. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC31	Continue providing density credits for developments that establish perpetual easements for ecologically sensitive lands.	All	Low	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations	General Funds	Action item deleted during 2021 plan. Comment by another department required.	Brunswick County: This activity is part of the day-to- day operations of the County through our Exceptional design provisions within the UDO. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: In the subdivision ordinance, there is guidance regarding density units per acre and the percentage of minimum open space that is required. Boiling Spring Lakes: Ongoing – ordinance addresses density and open space requirements, but does not address density credits. Bolivia: Action Deleted during 2021 Plan.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Calabash:Action deleted Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: Pending. Leland is currently drafting a conservation ordinance that would limit or prohibit development or disturbance in wetlands and flood hazard areas, and potentially offer higher density allowances for such preservation. Navassa: Deleted: This strategy has been removed form the town's plan Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
BC38	Continue debris removal program to correct problem sites at both the County and municipal level.	All	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Emergency Services Brunswick Co Administration Municipal Administrations	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County (consistent with current BC Solid Waste policies and plans). As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Belville will be available to revise the debris management plan contained within the countywide hazard mitigation plan. The Town will identify items of concern during "hot wash" sessions after events. Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See update provided by the County. Calabash: Action deleted Carolina Shores: Continuing: Will be done after each disaster Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Leland: Leland has a debris management plan to deal with post-event debris. Leland also has contracted to perform "snag and drags" on 4 local creeks to remove debris and improve creek flow. Navassa: The Town continues to maintin a post disaster debris management contract to ensure proper management of debris removal following a storm event. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC39	Continue to maintain/enforce an overall cap of 5% on post-development stormwater discharge increase over pre-development conditions through the County's stormwater management program.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina	Brunswick Co Engineering Brunswick Co Administration Municipal Administrations	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
				Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				Bald Head Island: See update provided by the County. Belville: Belville will follow the County's lead and encourage compliance. Boiling Spring Lakes: Completed – require County stormwater permits for all commercial development and disturbance of 1 acre or more Bolivia: See update provided by the County. Calabash: Completed- The Town follows its stormwater management ordinance. Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: N/A for Leland Navassa: Deleted: This strategy is not relevant to the Town of Navassa Northwest: See update provided by the County.

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								Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC40	Continue to support efforts to place spoil materials from channel maintenance and dredging on Brunswick County beaches, including each of the incorporated municipalities, as warranted.	All	Moderate	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: The Town of Belville desires to dredge the Brunswick River for future developments and will follow all environmental guidelines. Boiling Spring Lakes: No update provided for this action Bolivia: See Update provided by the County. Does not apply to Bolivia Calabash: Action deleted

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: N/A for Leland Navassa: .Deleted: This strategy is not relevant to the Town of Navassa Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC42	Continue implementation of EPA Phase II requirements. These efforts shall include providing oversight services to county municipalities.	All	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina	Brunswick Co Engineering Brunswick Co Administration Municipal Administrations	General Funds, NCDEQ	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
				Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				Bald Head Island: See update provided by the County. Belville: Continue to work with all environmental agencies to ensure compliance Boiling Spring Lakes: Completed – part of day-to-day activities Bolivia: See Update provided by the County. Calabash: See update provided by the County. Carolina Shores: See update provided by the County. Caswell Beach: See update provided by the County. Holden Beach: See update provided by the County. Leland: Ongoing Navassa: . The town Continues to maintain the Town's MS4 stormwater management program Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC43	Incorporate new FEMA digital FIRMs into the County GIS when necessary. This effort shall also include maintenance and inventory of all County land parcel data.	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations	General Funds, NCDPS	Completed	Brunswick County: Completed County has adopted most recent FIRM maps and made available on County GIS. Additionally, LOMC Mapping and Repetitive Loss Areas are also included in the GIS. Bald Head Island: See update provided by the County. Belville: The Town of Belville has establised communication with Brunswick County. We will continue to help maintain the most accurate GIS/FIRM data at the local level. Boiling Spring Lakes: Completed – 2018 FIRMs layer on GIS Bolivia: See update provided by the County. Calabash: See update provided by the County. Carolina Shores: See update provided by the County. Caswell Beach: See County update

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Holden Beach: See update provided by the County. Leland: Leland is finalizing an online interactive flood risk map that incorporates this data and will be live by March 9, 2020. Navassa: The Town maintains an in house GIS system which includes current FEMA Firm Maps Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: Utilizes Brunswick Coiunty GIS layers along with NC FRIS data for floodplain identification. Varnamtown: See update provided by the County.
BC45	Continue to work closely with real estate agents to ensure that prospective buyers are educated about development within a flood hazard area. The County will prepare materials for dissemination to local real estate agents to assist in this education process. Additionally,	Flood	High	Brunswick County, Bald Head Island, Calabash, Caswell Beach, Ocean Isle Beach,	Brunswick Co Planning Brunswick Co Administration Municipal Administrations	General Funds, NCDPS, FEMA	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County with oversight from the Flood Plain Administrator. As such, it is part of the County's mitigation capabilities and will be recorded

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
	materials and information regarding mitigation and retrofitting techniques will be made available on County and municipal websites.			Sunset Beach				in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: Bald Head Island includes real estate agents in Program for Public Information (PPI). Belville: See Update provided by the County. Carolina shores: Action deleted Calabash: See update provided by the County. Caswell Beach: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sunset Beach: See update provided by the County.
BC51	Monitor the status of backup generators, communications, and vehicles for all critical public facilities. In addition, develop a list of providers of emergency equipment.	Power-Outage	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland,	Brunswick Co Emergency Services Municipal Administrations	General Funds, NCDPS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Items will be listed in the Emergency Operations Plan and a

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
				Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				maintenance schedule will be attached. Boiling Spring Lakes: Completed – part of day-to-day activities – generator service company provides quarterly maintenance inspections; power supplies and cell phone modems installed on LAN; list of equipment maintained by BC Emergency Services; main Fire Dept. station generator tested weekly, fuel levels topped off and vehicles checked and maintained regularly Bolivia: See update provided by the County. Calabash: See update provided by the County. Carolina Shores: See update provided by the County. Caswell Beach: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. Two new generators were acquired during the implementation period. Holden Beach: See update provided by the County. Leland: Completed and ongoing. Leland currently has backup generators on all critical facilities and most Town buildings. Leland

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								also maintains a list of providers of emergency equipment. Navassa: The Town of Navassa will continue to seek out grant funds for the installation of backup generators at all Town Facilities. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC52	Maintain fire event preparedness by ensuring fire hydrants are working properly and coordinating with the NC State Forest Service. These efforts will include the inspection of all fire hydrants. Additionally, County Emergency Services will incorporate the improvement of firefighting procedures into these efforts.	Fire	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland,	Brunswick Co Emergency Services Municipal Fire Departments, NC Forest Service	General Funds, NCPDS, NCFS	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Continue work in cooperation with H2GO and

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
				Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				other agencies to ensure hydrants are painted, functioning and accessible (free from vegetation). Boiling Spring Lakes: Completed – part of day-to-day activities – fire hydrants flushed and tested annually; flow test completed every 4 years Bolivia: See update provided by the County. Calabash: See update provided by the County. Carolina Shores: See update provided by the County. Caswell Beach: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The Town Public Works department works closely with the Town fire department to inspect all hydrants annually to ensure they are working properly. Holden Beach: See update provided by the County. Leland: Completed and ongoing. Leland performs routine inspections of fire hydrants and other suppression systems. Leland also maintains a

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Community Wildfire Protection Plan with NC Forestry Service. Navassa: In progress: The Town of Navassa will continue to rely on the Navassa Volunteer Fire Department for these services. Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County. Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.
BC53	Continue to enforce and adopt water shortage response plans and water shortage ordinances for municipalities operating central water service.	Drought	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland,	Brunswick County Administration Municipal Administrations	General Funds, NCDEQ	Action deleted during 2021 plan update.	Brunswick County: This activity is part of the day-to- day operations of the County. As such, it is part of the County's mitigation capabilities and will be recorded in the Capability Assessment Section. This action will be removed from future plan updates. Bald Head Island: See update provided by the County. Belville: Update the Town's water shortage policy and include in the

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
				Navassa, Northwest, Ocean Isle Beach, Sandy Creek, St. James, Sunset Beach, Varnamtown				Emergency Operations Plan See Update provided by the County. Boiling Spring Lakes: No update provided for this action Bolivia: See update provided by the County. Calabash: See update provided by the County. Carolina Shores: See update provided by the County. Caswell Beach: This effort was completed in 2012 and will be implemented through future updates of this plan. The Town has not direct mailed notices to property owners regarding the Water Shortage Response Plan. Holden Beach: See update provided by the County. Leland: Completed and ongoing. Leland has an approved Water Shortage Response Plan overseen by the Public Services Department. Navassa: See update provided by the County.Deleted Northwest: See update provided by the County. Ocean Isle Beach: See update provided by the County.

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
								Sandy Creek: See update provided by the County. St. James: See update provided by the County. Sunset Beach: See update provided by the County. Varnamtown: See update provided by the County.

Village of Bald Head Island

Strategy BHI #1: Require a finished floor elevation certificate for all development within the special flood hazard area (SFHA). All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined special flood hazard area without the submittal of the required elevation certificate.

Progress: The Village of Bald Head Island has required and maintained elevation certificates for all structures developed within the flood hazard area. This requirement will continue, but is now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC14

Strategy BHI #2: Maintain a map information service involving the following: • Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including providing information on whether a given property is located in a flood hazard area; • Provide information regarding the flood insurance purchase requirement; • Maintain historical and current FIRMs; • Advertise the availability of the map information service once annually in the local newspaper; • Provide information to inquirers about local floodplain management requirements.

Progress: The Village's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal
jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy BHI #3: The Village of Bald Head Island will once annually mail a notice to all property owners whose land is located within a special flood hazard area. The notice should clearly state that the recipient's property is susceptible to flooding and provide information pertinent to emergency evacuation and post-disaster recovery. Additionally, the Village will notify all property owners once annually via mail, either through individual mailers or utility bill inserts, of the hazards associated with flooding and other hazards resulting from severe weather events. The Village Development Services Department will hold one training outreach seminar annually to educate builders, contractors, engineers, and architects about the latest methods available for property protection and development best management practices associated with floodplain development.

Progress: Over the last five years, the Village has direct mailed all properties located within the flood hazard area. This strategy will continue to be carried out as a component of the Village's CRS program.

Status/Corresponding 2015 Strategy: B1, BC48

Strategy BHI #4: The Village will work with local real estate agencies to ensure that agents are informing clients

when property for sale is located within an SFHA. The Village will provide these agencies with brochures documenting the concerns relating to development located within flood prone areas and ways that homeowners may make their homes more disaster resistant to strong winds, lightning, and heavy rains.

Progress: The County, as well as participating municipalities, continue to work closely with real estate agents, contractors and developers in an effort to educate potential property owners about the dangers associated with development in defined flood hazard areas. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy BHI #5: The Village will make information regarding hazards and development regulations within floodplains available through the following actions: • The Village of Bald Head Island Building Inspector will ensure that the local library maintains information relating to flooding and flood protection; • The Village will provide a link on their website to FEMA resources addressing flooding and flood protection; • The Village will maintain information pertinent to local development conditions and make this information readily available to the public, as well as at the local library.

Progress: The Village's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches

and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy BHI #6: The Village Development Services Department will provide comprehensive services regarding planning and development activities within the defined SFHA and issues relating to the construction of disaster resistant structures. These services will include the following: • Provide site-specific flood and flood related information on an as-needed basis; • The Development Services Department will maintain a list of contractors with experience in floodproofing and retrofit techniques; • Provide information on methods of wind proofing constructions methods for new and renovated structures; • Maintain materials providing an overview of how to select a qualified contractor; • Make site visits upon request to review occurrences of flooding, drainage problems, and sewer problems. If applicable to inspector should provide one-on-one advice to the property owner; • Provide advice and assistance regarding CRS activity 530 (Flood Protection); • Advertise the availability of this service once annually in the local newspaper; • Maintain a log of all individuals assisted through this service including all site visits.

Progress: The Village's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, Table 6-5 (page 6-40)

Strategy BHI #7: The Village will continue to support the NC Floodplain Mapping Program in its efforts to provide accurate and up-to-date Flood Insurance Rate Maps. This effort will also provide support the State's efforts as an NFIP Cooperating Technical Partner.

Progress: The Village has reviewed and adopted recently updated FIRM maps. This process also resulted in the revision and adoption of an updated Flood Damage Prevention Ordinance. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9, BC24

Strategy BHI #8: The Village will continue to support the Bald Head Island Conservancy and the Smith

Island Land Trust in their efforts to acquire land for open space preservation. It is the Village's desire that these properties be deed restricted and maintained in their natural state.

Progress: Over the last five years, the Village has supported the efforts of the Bald Head Island Conservancy and the Smith Island Land Trust. These efforts have resulted in 6 parcels being dedicated and preserved as open space in perpetuity.

Status/Corresponding 2015 Strategy: BC54

Strategy BHI #9: The Village of Bald Head Island will continue to enforce CAMA coastal development regulations. The Village will continue to maintain a Certified Floodplain Manager on staff to review all site plans for development occurring within a flood hazard area.

Progress: The Village has pro-actively enforced all state and locally adopted CAMA rules over the last five years through coordination with NCDEQ. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC25

Strategy BHI #10: The Village will maintain a comprehensive Geographic Information System (GIS) with current FIRM panels in an effort to make this information readily available to Village citizens. In addition to this digital data, bound copies of all historical and current FIRM panels will be maintained within the Development Services Department.

Progress: As new FIRM's are developed and adopted, the updated maps are incorporated into County and municipal GIS systems. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9, BC24

Strategy BHI #11 : The Village will continue to enforce NCDENR Sedimentation and Erosion Control Standards, as well as other rules and regulations aimed at protecting water quality. The Village will continue to implement the proposed projects outlined within the Village Comprehensive Stormwater Management Plan. This plan is a phased effort, and will continue to be developed and implemented over the next five years through the implementation of this plan.

Progress: The Village has pro-actively enforced all state and locally adopted Sedimentation and Erosion Control standards over the last five years through coordination with NCDEQ. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC25

Strategy BHI #12: The Village of Bald Head Island will work on the five-year implementation of this plan. At the end of this five-year period, the Village will undertake efforts to update this plan.

Progress: This strategy is being carried out through the current planning process. This strategy will be eliminated and addressed through language outlined in Section 7.

Status/Corresponding 2015 Strategy: Eliminated

Strategy BHI #13: The Village of Bald Head Island will continue to maintain an early warning system relating to notifications regarding flooding and other man-made disasters. This effort should involve all citizens and visitors, as well as the Village's critical infrastructure system.

Progress: The Village has maintained an early warning system over the last five years. This strategy will continue through local emergency management procedures.

Status/Corresponding 2015 Strategy: BC55

Strategy BHI #14: The Village will continue to support the NC Office of Dam Safety's efforts to monitor and inspect all dams throughout the state as well as the State of North Carolina. The Village will coordinate with the state agency to ensure that all dam facilities, both public and private, are properly maintained and stable.

Progress: The Village has supported the efforts of the NC Office of Dam Safety through implementation of the Village's CRS program. The County will continue to maintain this policy as a component of the Village's CRS program.

Status/Corresponding 2015 Strategy: Table 6-5 (page 6-40)

Strategy BHI #15: The Village of Bald Head Island will consider participation in the CRS Program.

Progress: This strategy has not been accomplished; however, the Village will consider joining through implementation of this update.

Status/Corresponding 2015 Strategy: BC7, Table 6-5 (page 6-40)

Strategy BHI #16: The Village will continue to monitor potable water resources locally, as well as statewide. When necessary the Village will institute measures to conserve water resources according to the existing Water Shortage Response Plan.

Progress: The Village has pro-actively enforced the local water shortage response ordinance over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2).

This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy BHI #17: The Village will continue to monitor coastal erosion along the shoreline located within the Village's corporate limits and work towards short and long-term solutions to this issue. This effort will involve cooperation with the US Army Corps of Engineers, as well as other state and federal permitting agencies.

Progress: This strategy has been eliminated in an effort to better reflect the Village's current policy regarding shoreline stabilization and management.

Status/Corresponding 2015 Strategy: Eliminated

Strategy BHI #18: The Village of Bald Head Island will review all land development controls in an effort to identify ways to reduce urban fire risk throughout the Village's corporate limits. Additionally, the Village will continue to enforce its open burning ban.

Progress: This strategy has been enforced through regulations defined in the Village's local zoning regulations. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10, BC52

Town of Belville

Strategy Belville P-1: At the next update of the CAMA Land Use Plan, consider strategies that place restrictions on new development and redevelopment in high hazard areas such as those areas adjacent to the Brunswick River.

Progress: This strategy has not been carried out by the Town. The actions defined under this locally specific strategy statement will be completed through implementation of this update, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC8

Strategy Belville P-2: Continue to support Brunswick County in enforcing the NC State Building Code.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy

statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Belville P-3: Continue to support Brunswick County in recording and maintaining all tax parcel information and floodplain locations in the GIS system.

Progress: As new FIRM's are developed and adopted, the updated maps are incorporated into County and municipal GIS systems. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC43

Strategy Belville P-4: Consider developing a Floodplain Management Plan to better assist citizens in the event of such a disaster.

Progress: Belville has developed, adopted, and is enforcing a current Flood Damage Prevention Ordinance (FDPO). The Town will utilize this Regional Mitigation Plan update as a solution to drafting a Flood Management Plan.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Belville P-5: Support Brunswick County in participation in the Community Rating System (CRS).

Progress: Although Belville is not currently a participating CRS community, the Town has supported these efforts and will continue to do so. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC7

Strategy Belville P-6: In order to reduce stormwater runoff, the Town will study ways to mitigate runoff and consider incorporating new standards in Town ordinances.

Progress: The Town has established and enforces a range of stormwater and sedimentation controls aimed at protecting water quality. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC39, BC42

Strategy Belville P-7: The Town will consider making amendments to Town ordinances to prohibit gas stations and junkyards in special flood hazard areas.

Progress: This strategy was completed and will be eliminated through this plan update. The Town will review zoning standards on an annual basis, in an effort to minimize development in flood hazard areas.

Status/Corresponding 2015 Strategy: BC10

Strategy Belville PP-1: Monitor, in public areas, the removal of trees and branches at risk of breaking or falling in wind, ice, and snow storms.

Progress: This strategy is addressed through implementation of the County Emergency Operations Plan.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Belville PP-2: The Town will consider developing a database of existing properties that have received damage due to natural disasters. This database will provide an assessment of properties that have the potential for future damage due to natural disasters.

Progress: The Town has not maintained its efforts to establish this database over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC13, BC17

Strategy Belville NR-1: The Town will consider incorporating shoreline vegetation protection buffers along Areas of Environmental Concern and along canals in order to protect land character and to help mitigate flooding.

Progress: The Town has enforced these standards through the Town's local CAMA Land Use Plan in conjunction with CAMA coastal development regulations. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10, BC25

Strategy Belville ES-1: Continue to make available to the public information in regards to the Brunswick County Emergency Management Response Plan, including the Town of Belville, available for public review at Town Hall.

Progress: The Town of Belville has maintained local Emergency Management procedures on the Town website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, R2

Strategy Belville ES-2: Keep a copy of the Brunswick County Multi-Jurisdictional Hazard Mitigation Plan, including the Town of Belville, available for public review at Town Hall.

Progress: The Town has maintained a copy of the current Brunswick County Multi-Jurisdictional Hazard Mitigation Plan at Town Hall, as well as on the Town's website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy Belville ES-3: Work with Brunswick County officials to distribute materials about the County Water Shortage Response Plan.

Progress: The County has pro-actively enforced and educated the public about the Water Shortage Response Plan over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Belville ES-4: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. In addition, develop a list of providers of emergency equipment.

Progress: The Town in collaboration with Brunswick County Emergency Management have maintained this strategy over the last five years. These efforts will continue through annual procedures defined int the County EOP. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Belville ES-5: To improve road visibility during hazardous road conditions, encourage NCDOT to place new reflector tape or paint along road edges and in the dividing line on all major roads in the

Town.

Progress: The Town in collaboration with other participating County jurisdictions have worked closely with NCDOT to carry out this strategy. Some progress has been made but efforts will continue through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed
through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Belville ES-6: The Town will continue to work with other governmental bodies including Brunswick County and surrounding communities to provide for a continued supply of pure, potable water.

Progress: The Town has collaborated with local water and sewer districts to maintain a clean potable water supply. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2

Strategy Belville ES-7: Maintain fire event preparedness.

Progress: The Town has carried out implementation of this strategy through the County EOP and local volunteer fire department efforts. Additionally, the NC State Forest assists in fire event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Belville ES-8: Ensure the fire hydrants are working properly.

Progress: This strategy has been carried out through annual public works routine maintenance. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Belville PI-1: Participate with Brunswick County in a hazard mitigation seminar for

community residents, including information on preparedness for all hazards significant to Brunswick County, including the Town of Belville.

Progress: The Town has participated in this seminar as made available through Brunswick County Emergency Management. These seminars are typically held leading into hurricane season. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language
presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy Belville PI-2: Provide home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at Town Hall and other community owned public facilities.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

City of Boiling Spring Lakes

Strategy BSL PI-1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a City-sponsored workshop.

Progress: The City's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy BSL PI-2: Hold a City-sponsored hazard mitigation seminar for the community residents,

including information on preparedness, mitigation, and response for all hazards significant to Boiling Spring Lakes.

Progress: This strategy will now be carried out as a component of the County's Emergency Operations Plan.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy BSL PI-3: Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the City hall and other community owned, public facilities in City.

Progress: The City's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy BSL PI-4: Manually disperse and post information at City Hall which provides information about the City's Emergency Response Plan and relevant emergency response actions the public can take. Also ensure each City department possesses a clear list of department responsibilities as outlined in the plan. Update department contacts as they change.

Progress: The City maintains comprehensive information regarding land development regulations, emergency response procedures, and public safety programs and initiatives. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy BSL PI-5: Manually disperse and post information at City Hall which provides information about the City's Community-Based Hazard Mitigation Plan and relevant mitigation measures that public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: This effort has not been accomplished; however, the City intends to achieve this strategy through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide

Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy BSL PI-6: The City should publicize, at the City Hall, maps of evacuation routes which will facilitate the evacuation of Boiling Spring Lakes in case of a hazardous event.

Progress: The City has maintained this information on the city website over the five year implementation of the 2011 plan. The actions defined under this locally specific strategy statement will continue, but are now

addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC21

Strategy BSL PI-7: The City should distribute via gas/electric bills maps of evacuation routes which will facilitate the evacuation of Boiling Spring Lakes in case of a hazardous event.

Progress: The City has not direct mailed this information over the last five years. The City will rely on the County Emergency Management as a means to disseminate these maps and information to residents and visitors. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, B21

Strategy BSL PI-8: Work with Brunswick County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: Over the last five years, Boiling Spring Lakes has collaborated with County utility districts to educate businesses and property owners about the terms and potential restrictions associated with local water shortage response plans. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: B53

Strategy BSL P-1: Continue to update the City's Emergency Response Plan on an annual basis. The Emergency Response Plan should contain detailed information on responsible parties and contact information; this information should be updated as positions and contact information changes.

Progress: The City has participated in Emergency Operations efforts at the local and County level over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy BSL P-2: Maintain evacuation routes in the event of a hazardous event.

Progress: The City has worked closely with Brunswick County Emergency Management and NCDOT to

maintain and mark evacuation routes. The actions defined under this locally specific strategy statement will
continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC21

Strategy BSL P-3: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The City's Public Works department has worked closely with Brunswick County Emergency Management to monitor and maintain backup generators. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy BSL P-4: Purchase, as necessary, backup generators as determined by the results of Action P-3.

Progress: No additional backup generators or quick connects were acquired over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy BSL P-5: Install, as necessary, generator quick connects, as determined by the results of Action P-3.

Progress: No additional backup generators or quick connects were acquired over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy BSL P-6: Continue to enforce the International Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the International Building Code.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will
continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy BSL P-7: Monitor trees and branches, in public areas, at risk of breaking or falling in wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines or other significant structures or critical facilities in the City.

Progress: The City's Public Works department in conjunction with local utility providers has worked over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy BSL P-8: The City will take a proactive approach in investigating dangerous damaged structures and should take prompt action in condemning damaged structures that have been abandoned.

Progress: The City has carried out this strategy through enforcement of the City's Minimum Housing Code. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC30

Strategy BSL P-9: Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the City's capability to generate maps when needed.

Progress: Over the last five years, Brunswick County, in collaboration with all participating municipalities, worked to expand upon and improve the quality of county-wide GIS data. The County will continue to work closely with municipalities to establish and maintain a robust and comprehensive GIS system. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC43

Strategy BSL P-10: Develop a database that identifies each property that has received damage due to hazards identified within this mitigation plan. The database should also include a tax identification number of the property, a description of the property damage, the value of the damage, and links to photographs of the damage. Developing this database will allow the City to easily identify properties at high risk of damage from certain hazards as well as properties which receive repetitive damage from multiple hazards. In an effort to gain historical information, the City should send a survey to all residents requesting information that should be included in the database.

Progress: The City has not been diligent in carrying out this strategy. These efforts will continue in conjunction with the County GIS. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy BSL P-11: The zoning and subdivision ordinances should be revised to utilize the use of various pervious surfaces in parking lots in recreational areas near the floodplain..

Progress: This strategy has not been carried out due to a lack of political will. It will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy BSL P-12: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Boiling Spring Lakes Emergency Response Plan as it relates to the expectations of the City's water supplier.

Progress: The City completed and adopted a Water Shortage Response Plan in 2008; enforcement will continue through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy BSL P-13: The City should continue their proactive approach to mitigation by connecting Rainwater Retention Drums to the downspouts of each gutter system on every municipal building within Boiling Spring Lakes. The collected water should be used to irrigate all municipal gardens, parks, lawns, and the like.

Progress: This strategy has been eliminated due to a lack of political will and available funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy BSL P-14: Storms can create hazardous road conditions, including decreased ability for drivers to see road boundaries. To improve road visibility, encourage the Department of Transportation to place new reflector tape or paint along road edges and in the dividing line should be placed on all major roads throughout City.

Progress: The City in collaboration with other participating County jurisdictions have worked closely with NCDOT to carry out this strategy. Some progress has been made but efforts will continue through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy BSL P-15: Continue to encourage proper waste disposal and recycling. In order to protect the vulnerable aquifer from contamination, the City should do all it can to prevent seepage of wastes and toxic elements into the ground. Proper disposal of waste and recycling when possible will aid in this effort. This measure may be implemented through a City policy or through public education measures.

Progress: This strategy was deemed a day-to-day function of the City, and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy BSL P-16: The zoning ordinance should be amended to prohibit underground chemical and gasoline storage, as set forth by EPA and the International Building Code, in an effort to minimize risks to groundwater resources.

Progress: This strategy was completed in 2009. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy BSL P-17: Regulate storage of toxic wastes. The zoning ordinance should be amended to prohibit the storage of toxic wastes within the planning jurisdiction.

Progress: This strategy was completed in 2009. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy BSL P-18: The City shall work with other appropriate governmental bodies, namely Brunswick County to provide for a continued pure supply of potable water.

Progress: The City has collaborated over the last five years with local water utilities to ensure access to a safe potable water supply. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This
change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2

Strategy BSL P-19: Maintain fire event preparedness. The fire department has the responsibility to assure the City's protection during fire events. Part of this responsibility is dependent upon the department's ability to maintain the materials and a knowledge base for addressing such an event. This responsibility must be supported by provision of adequate funding for the continuing education and materials necessary to maintain this preparedness.

Progress: The City has worked diligently with Brunswick County Emergency Management to prepare for and respond to fire events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy BSL P-20: Explore and seek access to all potential sources of information and communication regarding early fire prevention.

Progress: The City has worked diligently with Brunswick County Emergency Management to prepare for and respond to fire events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy BSL P-21: Evaluate and improve fire fighting procedures.

Progress: The City has worked diligently with Brunswick County Emergency Management to prepare for and respond to fire events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective

Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy BSL P-22: Ensure the fire hydrants are working properly.

Progress: The City Public Works department, in coordination with local fire officials, inspect all town fire hydrants for proper functioning. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies
(Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy BSL P-23: Maintain hazardous materials event preparedness. The City should develop a plan of action to maintain the materials and knowledge base for addressing such a spill, or develop preliminary measures to assist the county till the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness.

Progress: The City's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of hazardous materials. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Strategy BSL P-24: Maintain nuclear event preparedness. The City should develop a plan of action to maintain the materials and knowledge base for addressing a nuclear event, or develop preliminary measures to assist the county until the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness. This may be made part of the City's Emergency Response Plan.

Progress: The City's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Strategy BSL ES-1: Develop a tornado warning system. Several options exist for a tornado warning system. The most feasible for Boiling Spring Lakes would be to develop a siren to warn of oncoming tornados. This siren would have to differentiate from the fire alarm and be well publicized for citizens to recognize.

Progress: This strategy has not been achieved. Moving forward, early warning efforts will be handled through Brunswick County Emergency Management. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC46

Strategy BSL NRP-1: Protect/Enhance Shoreline Vegetation. The City should revise its zoning and subdivision ordinance to incorporate shoreline vegetation protection buffers along the AEC's in order to protect the character and the help mitigate flooding.

Progress: This strategy was completed in 2006; enforcement has continued since this time. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC25

Town of Bolivia

Strategy Bolivia P-1: Work with Brunswick County to set up program to advise/assist property owners in retrofitting homes, businesses, and institutional facilities. (CRS 320)

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Bolivia P-2: Work with Brunswick County to ensure that no public facilities are proposed for flood hazard areas. Protect new critical facilities (e.g., schools, hospitals, fire stations, emergency shelters) to 2' above the 500-year flood elevation (5' above BFE). (CRS 430)

Progress: Over the last five years, the Town has steered development away from high hazard areas through enforcement of local zoning regulations and the Flood Damage Prevention Ordinance. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3, BC9

Strategy Bolivia P-3: In cooperation with Brunswick County, continue program for evaluation and improvement of critical facilities (public and private) – roads, bridges, water, sewer, electricity, etc. – and critical services – fire, rescue, medical, etc.

Progress: The Town has not made improvements to any critical facilities over the last five years. The Town will continue to target opportunities as they arise or funding becomes available. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3, BC5

Strategy Bolivia P-4: Continue to address and strengthen approach to "scattered and sprawling, large lot subdivision activity," "unplanned commercial strip development," "sewage problems and sewage solutions," and "storm water runoff and drainage."

Progress: This strategy was completed through update and adoption of the County's Unified Development Ordinance within the last five years for areas surrounding the Town. Bolivia did not independently adopt any revised planning and zoning standards. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Bolivia P-5: Review and update as necessary the Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events (CRS 430). Consider raising the minimum flood protection level from 1' above base flood elevation to 2' or more above BFE. All substantially damaged buildings should be elevated to this level (CRS 430).

Progress: The Town has actively enforced local Flood Damage Prevention Ordinance provisions; however, the BFE has not been increased to two feet. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an

effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy Bolivia P-6: Evaluate the zoning ordinance for its ability to target and direct growth to areas consistent with the land classification map, the water distribution system, and existing and future sewer systems.

Progress: This strategy was completed through update and adoption of the County's Unified Development Ordinance within the last five years for areas surrounding the Town. Bolivia did not independently adopted any revised planning and zoning standards. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Town of Calabash

Strategy Calabash P-1: Update the Land Use Plan.

Progress: The Town completed a Land Use Plan update in 2012. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC8

Strategy Calabash P-2: Revise/update Stormwater Management Ordinance.

Progress: The Town reviews and updates local stormwater controls on an as needed basis. No revisions were required over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Calabash P-3: Update the Town Zoning Ordinance.

Progress: The Town adopted updates zoning regulations in 2013. The Town will continue to revise these regulations as deemed necessary. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Calabash P-4: Work with Brunswick County to enforce NC Building Codes for wind resistance.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Calabash P-5: Ensure Mobile/Manufactured Homes are installed and secured properly.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. All manufactured homes are tied down in accordance with NC State Building Code. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Calabash P-6: Consider revising Flood Damage Prevention Ordinance.

Progress: The Town revised the Flood Damage Prevention Ordinance in May 2010. The Town will continue to review the Flood Damage Prevention Ordinance annually and update it as deemed necessary and/or required by FEMA and NCDPS. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy Calabash S-1: Work with Brunswick County to enforce debris removal program to correct problem sites.

Progress: This strategy is carried out as a component of the County's Emergency Operations Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: B38

Strategy Calabash PI-1: Produce an annual progress report on the status of actions proposed in the HMP.

Progress: This strategy has been carried out through implementation of the Town's current HMP. Moving forward, this language is covered in Section 7 of this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Town of Carolina Shores

Strategy Carolina Shores 1.1.1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a Town-sponsored workshop.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Carolina Shores 1.1.2: Post the plans on the Town's website.

Progress: The plan has been posted on the Town's website over the last five years. The existing plan will be replaced with this update upon adoption. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy Carolina Shores 1.1.3: Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the Town Hall and other community owned, public facilities in Town.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in

collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Carolina Shores 1.1.4: Include information in quarterly Town newsletter (via email and hand deliver to POA).

Progress: The Town has carried out this task annually over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented
in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1

Strategy Carolina Shores 1.2.1: Manually disperse and post information at the Town Hall which provides information about the Town's Emergency Response Plan and relevant emergency response actions the public can take. Also ensure each Town department possesses a clear list of department responsibilities as outlined in the plan. Update department contacts as they change.

Progress: The Town has worked closely with Brunswick County Emergency Management over the last five years in an effort to provide citizens with accurate information regarding natural hazards through Town Hall. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy Carolina Shores 1.2.2: Manually disperse and post information at the Town Hall which provides information about the Town's Community-Based Hazard Mitigation Plan and relevant mitigation measures the public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: Information regarding the Town's existing plan has been provided to residents over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5, BC46, BC48

Strategy Carolina Shores 1.3.1: Continue to update the Town of Carolina Shores Emergency Response Plan on an annual basis. The Emergency Response Plan should contain detailed information on responsible parties and contact information; this information should be updated as positions and contact information changes.

Progress: This strategy has been carried out over the last five years in concert with updates to the County Emergency Operations Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Carolina Shores 1.4.1: Maintain evacuation routes in the event of a hazardous event.

Evacuation routes are reviewed and updated annually as necessary through mandated County Emergency Operations Plan updates in collaboration with NCDPS. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Carolina Shores 1.4.2: The Town should publicize, at Town Hall, maps of evacuation routes which will facilitate the evacuation of Carolina Shores in case of a hazardous event.

Evacuation routes are reviewed and updated annually as necessary through mandated County Emergency Operations Plan updates in collaboration with NCDPS. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Carolina Shores 1.4.3: The Town should distribute via website and newsletter, maps of evacuation routes which will facilitate the evacuation of Carolina Shores in case of a hazardous event.

Progress: All evacuation routes have been mapped by the Brunswick County GIS department and are reviewed and updated annually as needed. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an

effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5, BC21

Strategy Carolina Shores 2.1.1: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Carolina Shores 2.1.2: Purchase as necessary backup generators as determined by the results of 2.1.1.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Carolina Shores 2.1.3: Purchase emergency supplies for 10 Town personnel who will man the emergency operations center during and following a disaster. This strategy will require the Town to establish a list of items necessary for each employee prior to purchase.

Progress: This strategy has not been accomplished. The Town will apply for funding to have this project completed as the opportunity arises. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Carolina Shores 2.1.4: Purchase 4 chain saws to assist in the removal of debris created during disaster events. Approximate cost of this project is $2000.

Progress: This strategy has been accomplished and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Carolina Shores 2.1.5: Purchase a tractor/backhoe for clearing.

Progress: This strategy has been accomplished and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Carolina Shores 2.2.1: Purchase hurricane shutters to place on the 12 windows in Town Hall during high wind events. It is necessary to protect Town Hall as much as possible as it is the emergency operations center for the Town during disaster response and recovery.

Progress: This strategy was not accomplished through implementation of the existing plan. The Town will continue to seek funding opportunities through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3

Strategy Carolina Shores 2.2.2: Purchase hurricane shutters to place on the window of the public works building during high wind events.

Progress: This strategy was not accomplished through implementation of the existing plan. The Town will continue to seek funding opportunities through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3

Strategy Carolina Shores 3.1.1: Continue to enforce the North Carolina State Building Codes. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the North Carolina State Building Codes.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Carolina Shores 3.2.1: Monitor trees and branches in public areas at risk of breaking or falling in

wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines, or other significant structures or critical facilities in the Town.

Progress: The Town's Public Works department in conjunction with local utility providers has worked over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Carolina Shores 3.3.1: The Town will take a proactive approach in investigating dangerous damaged structures and should take prompt action in condemning damaged structures that have been abandoned.

Progress: The Town addresses this issue on an ongoing basis due to shoreline migration and erosion. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC30

Strategy Carolina Shores 4.1.1: Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the Town's capability to generate maps when needed. The Brunswick County GIS department currently completes their GIS mapping.

Progress: The Town has completed this strategy in conjunction with implementation of the existing plan.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Carolina Shores 4.2.1: Develop a database that identifies each property that has received damaged due to hazards identified within the mitigation plan. The database should also include a tax identification number of the property, a description of the property damage, the value of the damage, and links to photographs of the damage. Developing this database will allow the Town to easily identify properties at high risk of damage from certain hazards and well as properties which receive repetitive damage from multiple hazards. In an effort to gain historical information the Town should send a survey to all residents requesting information that should be included in the database.

Progress: The Town addresses this issue on an ongoing basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy Carolina Shores 4.3.1: Purchase 5 Nextel radios to assign to all primary Town personnel.

Progress: This strategy has been accomplished and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Carolina Shores 4.3.2: Purchase 2-way radios as a backup for personnel, approximate cost is $5,000.

Progress: This strategy was not accomplished; however, the Town will continue to work closely with County Emergency Management regarding the issue of emergency communication.

Status/Corresponding 2015 Strategy: BC50

Strategy Carolina Shores 5.1.1: Revise the Zoning and Subdivision Ordinance to require the utilization of various pervious surfaces within the floodplain in order to reduce stormwater runoff. This should utilizing the use of various pervious surfaces in parking lots in recreational areas near the floodplain.

Progress: The Town has not accomplished this strategy; however, the Town will consider changes to land development regulations that will assist with mitigation efforts. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Carolina Shores 5.1.2: Revise the existing special flood hazard area to reflect the areas flooded during Hurricane Floyd.

Progress: The Town addresses this issue on an ongoing basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC13, BC17

Strategy Carolina Shores 5.1.3: Identify all structures within the newly identified Special Flood Hazard area.

Progress: This strategy will be completed upon final adoption of updated FIRMs. The maps are currently under review by Brunswick County. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an

effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC13, BC17

Strategy Carolina Shores 5.1.4: Implement program to acquire buildings located within the Special Flood Hazard area that have been substantially damaged by flood events.

Progress: No structures were acquired by the Town over the last five years. The Town will continue to address this issue following natural hazard events like the flooding of 2015. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC26

Strategy Carolina Shores 5.1.5: Implement program to elevate any buildings that are located within the Special Flood Hazard area in cases in which owners are not willing to relocate.

Progress: No structures were elevated by the Town over the last five years. The Town will continue to address this issue following natural hazard events like the flooding of 2015. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC26

Strategy Carolina Shores 6.1.1: Work with Brunswick County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: This strategy has not been carried out independently by the Town. The Town has worked closely with Brunswick County Emergency Management to carry out this activity.

Status/Corresponding 2015 Strategy: BC53

Strategy Carolina Shores 6.1.2: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Carolina Shores Emergency Response Plan as it relates to the expectations of the Town's water supplier. Currently the Town follows the county's guidelines.

Progress: This effort was completed and will be implemented through future updates of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with

effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Carolina Shores 7.1.1: Develop a tornado and waterspout warning system.

Progress: This strategy has not been developed locally; however, it will be accomplished through annual EOP updates.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Carolina Shores 8.1.1: Maintain a current action plan for fire response.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Carolina Shores 8.2.1: Explore and seek access to all potential sources of information and communication regarding early fire detection.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC50

Strategy Carolina Shores 8.2.2: Evaluate and improve fire fighting procedures.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC50, BC52

Strategy Carolina Shores 8.2.3: Ensure the fire hydrants are working properly.

Progress: The Town Public Works department works closely with the Town fire department to inspect all hydrants annually to ensure they are working properly. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Carolina Shores 9.1.1: Maintain HAZMAT event preparedness. The Fire Department should develop a plan of action to maintain the materials and knowledge base for addressing such a spill, or develop preliminary measures to assist the County until the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness.

Progress: The Town has not completed this effort; however, Town emergency management has worked closely with the County LEPC to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC49

Strategy Carolina Shores 10.1.1: Maintain nuclear event preparedness.

Progress: The Town's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Town of Caswell Beach

Strategy Caswell Beach 1.1.1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a Town-sponsored workshop.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the

County.

Status/Corresponding 2015 Strategy: BC1

Strategy Caswell Beach 1.1.2: Hold a Town-sponsored hazard mitigation seminar for the community residents, including information on preparedness for all hazards significant to Caswell Beach.

Progress: This strategy is addressed through the Town's implementation of required CRS activities.

Status/Corresponding 2015 Strategy: R7, BC1

Strategy Caswell Beach 1.1.3: Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the Town hall and other community owned, public facilities in Town.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Caswell Beach 1.2.1: Manually disperse and have a website posting which provides information about the Town of Caswell Beach Emergency Response Plan and The Time Sensitive Hurricane Plan and relevant emergency response actions the public can take. Also ensure each Town department possesses a clear list of department responsibilities as outlined in the plan.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies

(Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy Caswell Beach 1.2.2: Manually disperse and have a website posting which provides information about the Town's Community-Based Hazard Mitigation Plan and relevant mitigation measures the public can take. In addition, provide a response/reply section where residents can comment on

the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3, BC5

Strategy Caswell Beach 1.3.1: Update and revise the Town of Caswell Beach Emergency Response Plan and The Time Sensitive Hurricane Plan on an annual basis. The plans should contain detailed information on responsible parties and contact information; this information should be updated as positions and contact information changes.

Progress: The Town reviews and updates the local emergency response procedures in conjunction with Brunswick County emergency management annually. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Caswell Beach 1.4.1: Maintain evacuation routes in the event of a hazardous event.

Progress: Evacuation routes are reviewed and updated annually as necessary through mandated County Emergency Operations Plan updates in collaboration with NCDPS. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Caswell Beach 1.4.2: The Town should publicize, on the Town's website, a map of evacuation routes which will facilitate the evacuation of Caswell Beach in case of a hazardous event.

Progress: All evacuation routes have been mapped by the Brunswick County GIS department and are reviewed and updated annually as needed. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Caswell Beach 2.1.1: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Caswell Beach 3.1.1: Continue to enforce the North Carolina Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the International Building Codes.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Caswell Beach 3.2.1: Monitor trees and branches, in public areas, at risk of breaking or falling in wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines, or other significant structures or critical facilities in the Town.

Progress: The Town's Public Works department in conjunction with local utility providers has worked over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts
focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Caswell Beach 3.3.1: The Town will take a proactive approach in investigating dangerous damaged structures.

Progress: The Town addresses this issue on an ongoing basis due to shoreline migration and erosion.

The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17, BC30

Strategy Caswell Beach 4.1.1: Procure GIS and GPS services through outsourcing for all the town's mapping needs and to assist in monitoring the rate of erosion.

Progress: This strategy has been completed and therefore, will be removed through the plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 4.2.1: Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the Town's capability to generate maps when needed.

Progress: The County continues to maintain a full-service GIS department which addresses the County and municipal overall mapping and data needs. This routine is considered a day-to-day operation for the County.

Status/Corresponding 2015 Strategy: BC43

Strategy Caswell Beach 4.3.1: Identify damage prone properties and develop a database that identifies each property that has received damage due to hazards identified within this mitigation plan. The database should include a tax identification number of the property, a description of the property damage, the value of the damage, and links to photographs of the damage. Developing this database will allow the Town to easily identify properties at high risk of damage from certain hazards as well as properties which receive repetitive damage from multiple hazards. In an effort to gain historical information, the Town should send a survey to all residents requesting information that should be included in the database.

Progress: The Town addresses this issue on an ongoing basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC13, BC17

Strategy Caswell Beach 5.1.1: This should utilize the use of various pervious surfaces in parking lots in recreational areas near the floodplain. The zoning and subdivision ordinances should be revised to require this action.

Progress: The Town has not accomplished this strategy; however, the Town will consider changes to

land development regulations that will assist with mitigation efforts. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Caswell Beach 5.2.1: Protect/Enhance Shoreline Vegetation. The Town should revise its zoning and subdivision ordinance to incorporate shoreline vegetation protection buffers along the AEC's and Canals in order to help mitigate flooding and to filter stormwater runoff before it comes in contact with local surface waters.

Progress: The Town has not accomplished this strategy; however, the Town has worked with NCDEQ and the US Army Corps of Engineers. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10, BC20, BC22

Strategy Caswell Beach 5.3.1: Using the Stormwater Drainage Study conducted in August 2000 as a guide, complete and adopt a Stormwater Management Plan.

Progress: The Town has collaborated with the County and NCDEQ to increase standards related to stormwater runoff. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Caswell Beach 5.3.2: Adopt and enforce a Stormwater Ordinance incorporating best management practices to control stormwater runoff from development and redevelopment sites.

Progress: The Town has collaborated with the County and NCDEQ to increase standards related to stormwater runoff. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Caswell Beach 5.3.3: Establish and empower a Stormwater Committee to assist the Planning Board in the development of a local Stormwater Management Plan, Stormwater Ordinance and the implementation of said plan and ordinance. The Town has attempted to establish a Stormwater Committee in the past but was unsuccessful in their attempts. The local governing body should once

attempt to establish this committee by using the public education and outreach aspect of this plan to educate the public on the need for such a committee and the need for strong public participation.

Progress: This strategy has not been carried out; however, the Town has and continues to work with NCDEQ and the County to ensure proper stormwater controls. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Caswell Beach 6.1.1: Continue to prioritize beach nourishment as a means of mitigating coastal beach erosion. Beach nourishment has been successfully used, in the past, to increase the amount of sand, to adjust the shoreline profile, to replenish depleted sand supplies and, through literal transport processes to supply sediment to downdrift shorelines.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 6.1.2: Complete implementation of the Strategic Plan and its subsequent plans.

Progress: This strategy has been eliminated due to its vague and ambiguous language.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 7.1.1: Work with Brunswick County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: The Town has not direct mailed notices to property owners regarding the Water Shortage Response Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Caswell Beach 7.1.2: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Caswell Beach Emergency Response Plan as it relates to the expectations of the Town's water supplier.

Progress: This effort was completed in 2012 and will be implemented through future updates of this plan.

The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Caswell Beach 8.1.1: To improve road visibility during hazardous road conditions, encourage NCDOT to place new reflector poles along road edges and in the dividing line on all major roads in the Town.

Progress: The Town continues to collaborate with the County and NCDOT to address this issue. Some progress has been made; however, it continues to be an issue. This strategy will now be addressed through strategies developed and implemented at the County-wide level.

Status/Corresponding 2015 Strategy: BC11

Strategy Caswell Beach 9.1.1: Continue to encourage proper waste disposal and recycling. In order to protect the vulnerable aquifer from contamination, the Town should do all it can to prevent seepage of wastes and toxic elements into the ground. Proposal disposal of waste and recycling when possible will aid in this effort. This measure may be implemented through a Town policy or through public education measures.

Progress: This strategy was deemed a day-to-day function of the town and not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.1.2: Implement a central wastewater collection system. One of the highest risks to groundwater is the septic tank system currently being used to handle the Town's wastewater. Studies show that by replacing the current septic tank system with a central collection system the level of groundwater contamination will be drastically reduced.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.1.3: To assist in the control and governance of the central wastewater system, the Town should develop a Wastewater Management Ordinance. This ordinance should include a list of potentially hazardous materials whose deposit into the central wastewater system should be prohibited.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.2.1: The Town should provide annual calibration of the 6" and 2" meters located at the Oak Island Beach Villas, Caswell Dunes, Arboretum, US Coast Guard Station, and the Baptist Assembly.

Progress: The Town has conducted these calibrations on an annual basis over the last five years. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.2.2: Replace still meters with new water meters and/or meter boxes.

Progress: The Town has replaced a number of meters over the last five years. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.2.3: Replace many of the meters in use by home owners which are old and have questionable accuracy.

Progress: The Town has replaced a number of meters over the last five years. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.3.1: The town purchases water from the county which is responsible for ensuring that the water meets all state and federal laws for safe drinking water. As a means of verifying the water quality, the Town should continue to maintain a Water Sampling Schedule on a continuous basis.

Progress: The Town has worked closely with local water and sewer districts over the last five years to ensure access to a potable water supply. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.3.2: It appears that waterlines were designed for each of the Town neighborhoods, and in some instances new subdivisions, without apparent consideration of a water system for the entire town. As a result, there are several waterlines that dead end in neighborhoods resulting in stale distasteful drinking water. One solution to this problem is to continue the scheduled flushing that is now being performed by Public Utilities throughout the Town.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.3.3: The Town does not have maps of the complete Town water system. The lack of built drawings is a major problem particularly as it affects waterline repairs, water turn offs required due to breaks, and fire protection. In an effort to rectify this issue, the Town should conduct a hydraulic analysis of the town's water distribution system to identify deficiencies and ensure protection of public health and safety.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.3.4: Determine if connecting the dead end waterlines will increase the amount of water flow to significantly affect the town's water supply for the purpose of fire protection. At the same time, eliminating dead end waterlines will reduce the need for frequent flushing ergo reducing the loss of unmetered water.

Progress: The Town has not carried out this strategy, but intends to carry it out as funding becomes available. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2, BC15

Strategy Caswell Beach 9.3.5: There are a number of alternatives that will be considered when attempting to increase the town's water flow and water pressure. These alternatives will be reviewed as part of the proposed engineering study and will include a cost benefit analysis to assist in the town's decision making. The risk in not implementing an alternative is to continue to lack sufficient water flow to put out a major fire in the town.

Progress: The Town has not carried out this strategy, but intends to carry it out as funding becomes available. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC15, BC16

Strategy Caswell Beach 9.3.6: Continue to review and revise the Town ordinances to be certain the Town ordinances meet the N.C. State Plumbing Code Standards and State Board of Health requirements.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.3.7: By state law, all double check valve assemblies and Reduced Pressure Zones must be in place by July, 2003. The Town should monitor double check valve assemblies and Reduced Pressure Zones to ensure they are in place by the state deadline.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 9.3.8: The Town shall work with other appropriate governmental bodies, namely Brunswick County, and surrounding municipalities to provide for a continued pure supply of potable water.

Progress: The Town has worked closely with local water and sewer districts over the last five years to ensure access to a potable water supply. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2

Strategy Caswell Beach 10.1.1: Maintain fire event preparedness. The fire department has the responsibility to assure the Town's protection during fire events. Part of this responsibility is dependent upon the department's ability to maintain the materials and a knowledge base for addressing such an event. This responsibility must be supported by provision of adequate funding for the continuing education and materials necessary to maintain this preparedness.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Caswell Beach 10.2.1: Explore and seek access to all potential sources of information and communication regarding early fire detection.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Caswell Beach 10.2.2: Evaluate and improve fire fighting procedures.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Caswell Beach 10.2.3: Ensure the fire hydrants are working properly.

Progress: The Town Public Works department works closely with the Town fire department to inspect all hydrants annually to ensure they are working properly. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Caswell Beach 10.3.1: Revise the Zoning Ordinance to prohibit the use of fireworks in the Town limits of Caswell Beach.

Progress: This strategy was completed in 2013 and will be enforced moving forward. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Caswell Beach 11.1.1: Maintain hazardous materials event preparedness. The Town should develop a plan of action to maintain the materials and knowledge base for addressing such a spill, or develop preliminary measures to assist the county till the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this

preparedness.

Progress: The Town has not completed this effort; however, Town emergency management has worked closely with the County LEPC to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC49

Strategy Caswell Beach 11.2.1: The Town should inspect all propane tanks located within the town limits of Caswell Beach to ensure they are secured as established through state regulations. Town officials have identified their concern is primarily related to tanks floating through town during high water events. However, this strategy will also prevent said tanks from being blow over due to high wind events. In addition, the Town should establish a method of ensuring problems with any tanks that are not properly secured are rectified.

Progress: It has been determined that staff does not have the resources to carry out this strategy. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 11.2.2: The Town should annually inspect all propane tanks located within the town limits of Caswell Beach to ensure there are no leaks from the tanks and to ensure there has been no surface soil contamination from the tanks.

Progress: It has been determined that staff does not have the resources to carry out this strategy. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Caswell Beach 12.1.1: Maintain nuclear event preparedness. The Town should develop a plan of action to maintain the materials and knowledge base for addressing a nuclear event, or develop preliminary measures to assist the county until the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness. This may be made part of the Towns Emergency Response Plan.

Progress: The Town's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Town of Holden Beach

Strategy Holden Beach 1.1.1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a Town-sponsored workshop. The Town will install a monitoring program on the website to track hits to the website.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Holden Beach 1.1.2: Hold a Town-sponsored hazard mitigation seminar for the community residents, including information on preparedness for all hazards significant to Holden Beach. Each May, the Town coordinates with the County Emergency Management Coordinator to hold the seminar to give residents the information and tools needed to respond to any hazard.

Progress: This strategy will be carried out as a function of the Town's CRS program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1

Strategy Holden Beach 1.1.3: Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the Town hall and other community owned, public facilities in Town.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the

County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Holden Beach 1.2.1: Manually disperse and have a website posting which provides information about the Town's State of Emergency Ordinance and relevant emergency response actions the public can take. Also ensure each Town department possesses a clear list of department responsibilities as outlined in the plan. Update department contacts as they change.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy Holden Beach 1.2.2: Manually disperse and have a website posting which provides information about the Town's Hurricane Preparedness Plan and relevant emergency response and preparedness actions the public can take.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Holden Beach 1.2.3: Provide a public information display in the Town Hall lobby.

Progress: This display was installed in 2012 and is maintained and updated as necessary. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1

Strategy Holden Beach 1.2.4: Provide survey cards during the annual POA meeting.

Progress: This strategy does not relate to the Town's mitigation program and is therefore, being eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 1.2.5: Provide information on the public access channel (Ch.8) on television concerning the community based hazard mitigation plan and the associated documents.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: R7, B1, BC5

Strategy Holden Beach 1.2.6: Manually disperse and have a website posting which provides information about the Town's Community-Based Hazard Mitigation Plan and relevant mitigation actions the public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: The Town has maintained the Hazard Mitigation Plan on the Town's website over the last five years. Upon adoption, this document will replace the existing HMP. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1, BC5

Strategy Holden Beach 1.3.1: Update and revise the Town of Holden Beach State of Emergency Ordinance on an annual basis. The State of Emergency Ordinance should contain detailed information on responsible parties and contact information; this information should be updated as positions and contact information changes.

Progress: The Town reviews and updates the local emergency response procedures in conjunction with Brunswick County emergency management annually. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Holden Beach 1.4.1: Maintain evacuation routes in the event of a hazardous event.

Progress: Evacuation routes are reviewed and updated annually as necessary through mandated

County Emergency Operations Plan updates in collaboration with NCDPS. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-
wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Holden Beach 1.4.2: The Town should publicize, on the Town's website, a map of evacuation routes which will facilitate the evacuation of Holden Beach in case of a hazardous event.

Progress: All evacuation routes have been mapped by the Brunswick County GIS department and are reviewed and updated annually as needed. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5, BC21

Strategy Holden Beach 1.4.3: The Town should distribute via Brunswick County water bills, realty companies, the Holden Beach Property Owner's Association, and the town hall public information rack, maps of evacuation routes which will facilitate the evacuation of Holden Beach in case of a hazardous event.

Progress: All evacuation routes have been mapped by the Brunswick County GIS department and are reviewed and updated annually as needed. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy Holden Beach 2.1.1: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Holden Beach 2.1.2: Purchase, as necessary, backup generators as determined by the results of 2.1.1. Install, as necessary, generator quick connects, as determined by the results of 2.1.1.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Holden Beach 3.1.1: Continue to enforce the International Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the International Building Codes.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Holden Beach 3.2.1: Monitor trees and branches, in public areas, at risk of breaking or falling in wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines, or other significant structures or critical facilities in the Town.

Progress: The Town's Public Works department in conjunction with local utility providers has worked over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Holden Beach 3.3.1: The Town will take a proactive approach in investigating dangerous damaged structures and should take prompt action in condemning damaged structures that have been abandoned.

Progress: The Town addresses this issue on an ongoing basis due to shoreline migration and erosion. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change

is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17, BC30

Strategy Holden Beach 3.4.1: Bury the utility lines on Swordfish Drive, Brunswick Avenue West, and those crossing the Intracoastal Waterway in an effort to complete the utility line burial project which began in 1989. Once this portion of the project is finished, the entire community will receive its utilities from buried lines, thus, depleting the potential for service interruption as a result of line breakage for natural hazards. This project is complete as of 2008 and the Town will continue its policy of requiring developers to install utilities underground.

Progress: This effort is complete and therefore, it is eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 4.1.1: Purchase a complete GIS/GPS setup and provide training on said setup to all pertinent town personnel. As of 2008, the Town has its own GIS system, and utilizes this technology to maintain historical data as well as current information regarding particular Town ordinances.

Progress: This strategy has been completed and therefore, will be removed through the plan update.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Holden Beach 4.2.1: Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the Town's capability to generate maps when needed. Utilizing the GPS system, the Town maintains a database with this information and can provide this information as requested

Progress: The Town has acquired a GIS/GPS system and updates pertinent data on an as needed basis. These efforts have also included maintaining data layers defining the Town's Flood Hazard Area. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC43

Strategy Holden Beach 4.3.1: Develop a database that identifies each property that has received damage due to hazards identified within this mitigation plan. The database should include a tax identification number of the property, a description of the property damage, the value of the damage, and links to photographs of the damage. Developing this database will allow the Town to easily identify properties at high risk of damage from certain hazards as well as properties which receive repetitive damage from

multiple hazards. In an effort to gain historical information, the Town should send a survey to all residents requesting information that should be included in the database. This database is in place and is maintained as new information is received.

Progress: This strategy has not been completed to date. The Town will consider establishing this database following future storm events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table
6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy Holden Beach 5.1.1: Revise the Zoning and Subdivision Ordinance to require the utilization of various pervious surfaces within the floodplain in order to reduce stormwater runoff. This should include utilizing the use of various pervious surfaces in parking lots in recreational areas near the floodplain. The Town amended their ordinances to provide for the use of pervious materials. The Town will continue to amend its ordinances as new BMP's become available.

Progress: This strategy has not been carried out due to changing views regarding the effectiveness of permeable pavement. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Holden Beach 5.2.1: Revise the zoning and subdivision ordinance to incorporate shoreline vegetation protection buffers along the AEC's and Canals in order to protect the character and to help mitigate flooding. In 2004, the Town amended its ordinances to require this important buffering process.

Progress: The Town has not implemented this strategy; however, the Town has worked closely with NCDEQ to enforce state and local CAMA regulations. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Holden Beach 5.2.2: Protect surrounding surface water and ecosystems from pollutants often associated with flooding and stormwater runoff. Specifically, the Town will provide a natural, vegetative toxin/pollutant filter at the end of all Town owned roads and streets (i.e., Halstead, Roger, Boyd, Fayetteville, Lumberton, Raleigh, Sanford, Burlington, Salisbury, Durham, Charlotte, Greensboro, Lions Paw, Starfish, Sanddollar, Marlin, Tarpon, Dolphin, and Tuna). The Town will continue this project as

funds become available.

Progress: The Town has maintained and enforced its stormwater management ordinance over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Holden Beach 6.1.1: Continue to prioritize beach nourishment as a means of mitigating coastal beach erosion.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 6.1.2: Develop a Beach Management Plan which will include annual monitoring of literal drift erosion, to address the long-term issue of beach erosion. The Town appointed a 9-member Shoreline Protection Committee; however, this committee was not able to accomplish its goals and objectives. In 2008, a new committee was appointed reducing the number of members to 5 and they have been tasked with developing a vegetation plan.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 7.1.1: Work with Brunswick County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: The Town has not direct mailed notices to property owners regarding the Water Shortage Response Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Holden Beach 7.1.2: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Holden Beach State of Emergency Ordinance as it relates to the expectations of the Town's water supplier.

Progress: This effort was completed in 2012 and will be implemented through future updates of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC53

Strategy Holden Beach 7.2.1. The Town should continue their proactive approach to mitigation by connecting Rainwater Retention Drums to the downspouts of each gutter system on every municipal building within Holden Beach. The collected water should be used to irrigate all municipal gardens, parks, lawns, and the like.

Progress: This strategy has been eliminated through this plan update due to a lack of funding and political will.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 8.1.1: Develop a tornado and waterspout warning system. The Town researched this type of system and determined it was cost prohibitive at this time. The Town developed a more cost effective measure by educating the public and join in the campaign with local TV stations to encourage citizens to purchase individual weather alert radios. This type of warning system was determined to be not only more cost effective but more benefit to the individuals because they can have the radio with them at all times.

Progress: The Town has carried out this strategy and has several employees trained in early detection techniques. The Town will maintain continuing education for relevant staff members. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35

Strategy Holden Beach 9.1.1: To improve road visibility, encourage the Department of Transportation to place new reflector tape or paint along road edges and in the dividing line should be placed on all major roads through Town.

Progress: The Town continues to collaborate with the County and NCDOT to address this issue. Some progress has been made; however, it continues to be an issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Holden Beach 10.1.1: Continue to encourage proper waste disposal and recycling. In order to protect the vulnerable aquifer from contamination, the Town should do all it can to prevent seepage of wastes and toxic elements into the ground. Proposal disposal of waste and recycling when possible will aid in this effort. This measure may be implemented through a Town policy or through public education measures.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 10.1.2: The zoning ordinance should be amended to prohibit underground chemical and gasoline storage that are a risk to groundwater resources.

Progress: The Town has worked closely with NCDEQ, the local LEPC, and the US Army Corps of Engineers to oversee installation and monitoring of underground tanks. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Holden Beach 10.1.3: The zoning ordinance should be amended too prohibit the storage of toxic wastes within the planning jurisdiction. This amendment was approved by the Town Council. Staff will continue to monitor this issue and amend the Z oning Ordinance as needed.

Progress: The Town has worked closely with NCDEQ, the local LEPC, and the US Army Corps of Engineers to oversee installation and monitoring of underground tanks. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Holden Beach 10.1.4: The Town shall work with other appropriate governmental bodies, namely Brunswick County, Shallotte, and Ocean Isle Beach to provide for a continued pure supply of potable water.

Progress: As noted, the Town has worked closely with local water suppliers to provide a sanitary and consistent potable water supply. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2

Strategy Holden Beach 10.1.5: Implement a central wastewater collection system. Studies conducted by the Town have shown that the highest risk to groundwater is the septic tank system currently being used to handle the Town's wastewater.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 10.1.6: Develop a Wastewater Management Ordinance to assist in the control and governance of the central wastewater system. This ordinance should include a list of potentially hazardous materials whose deposit into the central wastewater system should be prohibited. Since the Town is a partner with Brunswick County, the Town will adopt the County's Sewer Use Ordinance.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 10.1.7: Amend the Stormwater Management Ordinance to include a list of potentially hazardous materials that should not be deposited into local drainage systems or surface waters. This Ordinance as amended by the Town and the Director of Planning & Inspections will ensure the enforcement and ensure the Town stays in compliance with the state stormwater rules.

Progress: Over the last five years, the County has effectively enforced state and local stormwater management regulations. The Town will update these regulations as deemed necessary, or when amendments will positively impact the Town's mitigation program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Holden Beach 11.1.1: Maintain fire event preparedness.

Progress: The Town's fire department works closely with County Emergency Management to improve upon and educate regarding the issue of fire event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC52

Strategy Holden Beach 11.2.1: Explore and seek access to all potential sources of information and

communication regarding early fire detection.

Progress: The Town's fire department works closely with County Emergency Management to improve upon and educate regarding the issue of fire event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC35, BC52

Strategy Holden Beach 11.2.2: Evaluate and improve fire fighting procedures.

Progress: The Town's fire department works closely with County Emergency Management to improve upon and educate regarding the issue of fire event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC35, BC52

Strategy Holden Beach 11.2.3: Ensure the fire hydrants are working properly.

Progress: The Town's fire and public works departments have inspected all hydrants once annually over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC52

Strategy Holden Beach 12.1.1: Maintain HAZMAT event preparedness. The Town should develop a plan of action to maintain the materials and knowledge base for addressing such a spill, or develop preliminary measures to assist the county till the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness.

Progress: Town emergency management staff in conjunction with County Emergency Management and the County LEPC have worked to enforce this strategy. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC33, BC35, BC36

Strategy Holden Beach 12.2.1: The Town shall not support offshore drilling for gas or oil and shall not permit facilities such as oil refineries, storage facilities, or staging areas within the Town.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Holden Beach 13.1.1: Maintain nuclear event preparedness. The Town should develop a plan of action to maintain the materials and knowledge base for addressing a nuclear event, or develop preliminary measures to assist the county until the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness. This may be made part of the Towns Emergency Response Plan.

Progress: The Town's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Town of Leland

Strategy Leland PI-1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a City-sponsored workshop.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Leland PI-2: Hold a City-sponsored hazard mitigation seminar for the community residents, including information on preparedness, mitigation, and response for all hazards significant to Leland.

Progress: This strategy will continue to be implemented as a component of the County' s CRS program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1

Strategy Leland PI-3: Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the community administration building.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library
of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: B1, BC45

Strategy Leland PI-4: Survey local businesses to determine if they have emergency operations procedures in place and that all employees are aware of said procedures.

Progress: This strategy has not been carried out by the Town; however, local business owners have been provided education and outreach regarding natural hazards through County EOP procedures over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC36

Strategy Leland PI-5: Manually disperse and have a website posting which provides information about the Community-Based Hazard Mitigation Plan for Leland and relevant mitigation measures the public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: The Town has maintained the current Hazard Mitigation Plan on the Town website. Upon adoption of this update, the Town will replace the current document and continue to make it available through implementation of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy Leland PI-6: Develop a Town of Leland Emergency Response Plan. The Emergency Response Plan

should contain detailed information on responsible parties and contact information; this information should be updated as positions and contact information changes.

Progress: The Town reviews and updates the local emergency response procedures in conjunction with Brunswick County emergency management annually. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Leland PI-7: Manually disperse and post information on the Town-sponsored website about the Town's Emergency Response Plan and relevant emergency response actions the public can take. Also ensure each Town department possesses a clear list of department responsibilities as outlined in the plan. Update department contacts as they change.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy Leland PI-8: Develop an Alert System to improve the Town's communications with citizens during impending disasters.

Progress: The Town has collaborated over the last five years with County Emergency Management to provide an emergency alert system available to all residents. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC46

Strategy Leland PI-9: Implement a reverse 911 system to assist the Police Department with the Elder Check Program to assist in contacting at risk populations during emergency situations. This program is already being implemented but a reverse 911 system would improve the performance of the program.

Progress: The Town has not established a municipal reverse 911 system. The Town has relied on the County Emergency Management for this service. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC46

Strategy Leland PI-10: Coordinate with local churches and Spanish speaking representatives to disperse information about the hazards prevalent in the area and the steps they can take to mitigate these hazards.

Progress: The Town has not carried out this strategy; but has relied on services provided through County Emergency Management. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC48

Strategy Leland P-1: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Leland P-2: Continue to enforce the North Carolina State Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the International Building Code.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Leland P-3: Monitor trees and branches, in public areas, at risk of breaking or falling in wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines or other significant structures or critical facilities in the Town.

Progress: The Town's Public Works department in conjunction with local utility providers has worked

over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Leland P-4: The Town will take a proactive approach in investigating dangerous damaged structures and should take prompt action in condemning damaged structures that have been abandoned.

Progress: The Town addresses this issue on an ongoing basis due to future impacts of natural hazard events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of
collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17, BC30

Strategy Leland P-5: Hire and train a local Building Inspector. The Town is currently working with Brunswick County to ensure the North Carolina State Building Codes are implemented in the Town. However, they are hiring and training a local Building Inspector in an effort to improve their current institutional capability.

Progress: This strategy has been completed and, therefore, will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Leland P-6: Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the Town's capability to generate maps when needed.

Progress: The Town has an established GIS program and has maintained local floodplain data on this system for the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC43

Strategy Leland P-7: Develop a database that identifies each property that has received damage due to hazards identified within this mitigation plan. The database should also include a tax identification number of the property, a description of the property damage, the value of the damage, and links to photographs of the damage. Developing this database will allow the Town to easily identify properties at high risk of damage from certain hazards as well as properties which receive repetitive damage from

multiple hazards. In an effort to gain historical information, the Town should send a survey to all residents requesting information that should be included in the database.

Progress: The Town addresses this issue on an ongoing basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC13, BC17

Strategy Leland P-8: Purchase 15 vehicle radios for the Police Department and 15 hand-held radios for the Police Department.

Progress: The Town has purchased fifteen radios over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC50

Strategy Leland P-9: In order to reduce stormwater runoff, the Town should utilize various pervious surfaces within the floodplain. This should include the use of various pervious surfaces in parking lots in recreational areas near the floodplain. The zoning and subdivision ordinances should be revised to require this action.

Progress: The Town has not accomplished this strategy; however, the Town will consider changes to land development regulations that will assist with mitigation efforts. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: B10

Strategy Leland P-10: Develop a Floodplain Management Plan to assist in preventing wetland fill-in and wetland development.

Progress: This Regional Hazard Mitigation effort will serve as the Town's Flood Management Plan moving forward.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Leland P-11: Update the Flood Damage Prevention Ordinance.

Progress: The Town maintains an updated Flood Damage Prevention Ordinance. The Town will continue to review the Flood Damage Prevention Ordinance annually and update it as deemed necessary and/or required by FEMA and NCDPS. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy Leland P-12: Develop a Stormwater Advisory Committee to develop a Stormwater Ordinance in an effort to limit future stormwater drainage issues in the Town.

Progress: The strategy has been completed in concert with implementation of the County's Stormwater Management program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Leland P-13: Develop a standby acquisition application to remove all structures with repetitive loss located in the 100-year floodplain.

Progress: This strategy has not been completed. In lieu of this effort, the Town works directly with NCDPS to complete applications as necessary. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC26

Strategy Leland P-14: Become a member of the Community Rating System program through the NFIP.

Progress: The Town has not joined the CRS program to date; this decision was based on the cost-benefit that the program will provide. The Town will revisit this action through implementation of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC7

Strategy Leland P-15: Work with Brunswick County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: The Town has worked closely with local water suppliers to develop and disseminate

information regarding the Town's Water Shortage Response Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Leland P-16: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Emergency Response Plan.

Progress: The Town has worked closely with local water suppliers to develop and disseminate information regarding the Town's Water Shortage Response Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Leland P-17: Maintain fire event preparedness. The fire department has the responsibility to assure the Town's protection during fire events. Part of this responsibility is dependent upon the department's ability to maintain the materials and a knowledge base for addressing such an event. This responsibility must be supported by provision of adequate funding for the continuing education and materials necessary to maintain this preparedness.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Leland P-18: Explore and seek access to all potential sources of information and continuing education for firefighters.

Progress: The Town's fire department works closely with County Emergency Management to improve upon and educate regarding the issue of fire event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC35, BC52

Strategy Leland P-19: Evaluate and improve fire fighting procedures.

Progress: The Town's fire department works closely with County Emergency Management to improve upon and educate regarding the issue of fire event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC35, BC52

Strategy Leland P-20: Ensure the fire hydrants are working properly.

Progress: The Town's fire and public works departments have inspected all hydrants once annually over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC52

Strategy Leland P-21: Maintain a current action plan for hazardous materials event response. The Town should develop a plan of action to maintain the materials and knowledge base for addressing such a spill. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness.

Progress: The Town has not completed this effort; however, Town emergency management has worked closely with the County LEPC to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC33, BC36

Strategy Leland P-22: Maintain a current action plan for nuclear event response. The Town should develop a plan of action to maintain the materials and knowledge base for addressing a nuclear event, or develop preliminary measures to assist the county until the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness. This may be made part of the Town's Emergency Response Plan.

Progress: The Town's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Strategy Leland P-23: Conduct a survey with each department to identify the current training needs of each department. The list from each department should be prioritized and should be developed according to current and future staffing.

Progress: This strategy was deemed irrelevant in relation to the Town's mitigation efforts and will be eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Leland P-24: Educate a primary staff person in conversational Spanish.

Progress: The Town has Spanish speaking staff; however, no formal plan is in place to expand these efforts. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC48

Strategy Leland P-25: Work with volunteer organizations to develop standard operation procedures to be used during disaster recovery and response.

Progress: This strategy has been completed through collaboration with Brunswick County Emergency Management. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Leland PA-1: Have each member of the Planning Board read and respond in group discussion to the NCAPA Citizen Planners Training Program Module.

Progress: This strategy was deemed irrelevant in relation to the Town's mitigation efforts and will be eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Leland PA-2: Conduct a mini-conference to discuss and revise the community vision in an effort to make the community more proactive in regards to development.

Progress: The Town has accomplished this strategy through ongoing planning efforts; it will be eliminated from this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Town of Navassa

Strategy Navassa P-1 : In cooperation with Brunswick County, set up program to advise/assist property owners in retrofitting homes, businesses, and institutional facilities. (CRS 320)

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches

and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Navassa P-2: Continue/expand efforts to partner with area utility districts to encourage proper development of regional sewer systems.

Progress: These efforts are ongoing and the Town works closely with County sewer districts to expand County- wide sewer.

Status/Corresponding 2015 Strategy: BC2

Strategy Navassa P-3: In cooperation with Brunswick County, ensure, when possible, that no public facilities are proposed for flood hazard areas. Protect new critical facilities (e.g., schools, hospitals, fire stations, emergency shelters) to 2' above the 500-year flood elevation (5' above BFE). (CRS 430)

Progress: No modifications have been made to Town critical facilities over the last five years; however, the Town continues to utilize the data in this plan when considering development of new critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3

Strategy Navassa P-4: In cooperation with Brunswick County, continue program for evaluation and improvement of critical facilities (public and private) – roads, bridges, water, sewer, electricity, etc. – and critical services – fire, rescue, medical, etc.

Progress: No modifications have been made to Town critical facilities over the last five years; however, the Town continues to utilize the data in this plan when considering development of new critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3, BC5

Strategy Navassa P-5: In cooperation with Brunswick County, continue to address and strengthen approach to "scattered and sprawling, large lot subdivision activity," "unplanned commercial strip development," "sewage problems and sewage solutions," and "storm water runoff and drainage."

Progress: This strategy was completed through update and adoption of the County's Unified Development Ordinance within the last five years.

Status/Corresponding 2015 Strategy: Completed.

Strategy Navassa P-6: In cooperation with Brunswick County, strengthen the land use classification system by more closely defining allowed uses and designating certain areas as off limits to development.

Progress: The County reviews and updates the Land Use Plan on a regular basis. These efforts will continue; therefore, this strategy has been eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Navassa P-7: In cooperation with Brunswick County, continue to strengthen policies directing urban level growth to appropriate locations where services can be provided.

Progress: This strategy has been completed through ongoing land use planning and zoning management over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10, BC15

Strategy Navassa P-8: In cooperation with Brunswick County, continue to review and update the Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events (CRS 430). Consider raising the minimum flood protection level from 1' above base flood elevation to 2' or more above BFE.

Progress: The County, as well as all participating jurisdictions, reviews and updates their respective Flood Damage Prevention Ordinances as deemed necessary, or when mandated by NCDPS and/or FEMA

through the NFIP. Additionally, all existing locally adopted Base Flood Elevation standards will be maintained.

Status/Corresponding 2015 Strategy: BC9

Strategy Navassa P-9: Evaluate the zoning ordinance for its ability to target and direct growth to areas consistent with the land classification map, the water distribution system, and existing and future sewer systems.

Progress: This strategy has been completed through ongoing land use planning and zoning management over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Navassa P-10: Continue efforts to revise, update, and improve subdivision regulations particularly with regard to open space and tree preservation.

Progress: This strategy has not been carried out over the last five years. The Town will consider these amendments moving forward. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Navassa P-11: Continue to improve road access standards to protect the integrity of significant traffic-carrying roadways throughout the Town.

Progress: This strategy has been completed through ongoing land use planning and zoning management over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10, BC11

Strategy Navassa P-12: In cooperation with Brunswick County, continue to review rebuilding activities after major storm events to determine how revisions to existing policies and procedures could help minimize repetitive losses.

Progress: This strategy has been carried out in collaboration with Brunswick County Planning and Emergency Management. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation

Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC13

Strategy Navassa P-13: In cooperation with Brunswick County, cntinue to require and maintain FEMA elevation certificates for all permits for new buildings or improvements to buildings on lots including any portion of the 100-year floodplain (CRS 310).

Progress: The County, as well as all participating municipalities, continue to require the submittal of FEMA Elevation Certificates for development within the defined Flood Hazard Area. This strategy has been updated to reflect current regulatory and record keeping requirements.

Status/Corresponding 2015 Strategy: BC14

Strategy Navassa P-14: Continue to allot capital funding for the implementation of hazard mitigation activities.

Progress: This strategy is taken into consideration during budget deliberations on an annual basis in an attempt to further the town's mitigation program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC16

Strategy Navassa P-15: Consider a shoreline overlay district to include requirements for more intense review of proposed drainage, and limitation on the type of land uses allowed within the overlay district.

Progress: This strategy has not been carried out because of uncertainty concerning future development along the shoreline. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

City of Northwest

Strategy Northwest P-1 : Using formed Disaster Committee to identify specific hazards, notify endangered parties in advance of storms.

Progress: This strategy has not been carried out locally by the Town. All emergency management efforts are carried out in conjunction with Brunswick County Emergency Management. The actions defined

under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Northwest P-2: Enforce ordinances to block construction in flood zones.

Progress: The Town has regulated development in the floodplain over the last five years through enforcement of the Town's Flood Damage Prevention Ordinance. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9, BC10

Strategy Northwest P-3: Work with NCDOT and local crews to treat roads in advance of storms, and clear roads afterward as soon as possible.

Progress: The Town works closely with Brunswick County Emergency Management and NCDOT to carry out this strategy. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Northwest P-4: Work with the local power service company to have crews on call in case of power outages, and keep access roads to power lines clear.

Progress: The Town works closely with Brunswick County Emergency Management and local utility providers to carry out this strategy. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Northwest PI-1: Provide residents with information about emergency services available.

Progress: The Town has maintained Emergency Management information on the Town's website. These efforts will continue in collaboration with Brunswick County Emergency Management. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result

of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy Northwest ES-1: Bolster inventory of equipment and services available to residents.

Progress: This strategy was deemed to be vague and will be eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Northwest ES-2: Improve equipment and training for fire fighters, and implement outside resources.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the

County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Northwest S-1: Construct storm drainage piping and ditch improvements.

Progress: The Town was not able to carry out this strategy locally, but will continue to seek funding for this capital improvement through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC16, BC57

Town of Oak Island

Strategy Oak Island 5-3.1.1: Building Inspectors will continue to enforce local codes on building and development - zoning, subdivision regulations, NC State Building Code, Flood Damage Prevention, Stormwater Regulations, and Dune Protection Regulations.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. Additionally, other ordinances listed have been actively enforced and reviewed/updated annually as necessary. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the

County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Oak Island 5-3.1.2: Continue enforcement of the following: (1) one-foot freeboard above the FEMA required height above base flood elevation as determined by the NFIP; (2) requiring a survey and elevation certificate for all construction within a VE zone; (3) Requiring that break away walls or flood gates be installed in all enclosed areas in any flood zone; and (4) Requiring that no electrical, mechanical, or plumbing fixtures other than those required by building code or the NEC be located below base flood and the freeboard.

Progress: The Town has not updated the local Flood Damage Prevention Ordinance over the last five years; however, an update will be carried out in conjunction with the adoption of updated flood maps. The Town has, however, pro-actively enforced the FDPO standards over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9, BC10

Strategy Oak Island 5-3.1.3: The Town will continue participation in CRS program. Continue program to advise/assist property owners in retrofitting homes, businesses and institutional facilities.

Progress: The Town has continued participation in the CRS program, including assisting property owners in retrofitting homes, businesses, and institutional facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC47, Table 6-5 (page 6-40)

Strategy Oak Island 5-3.1.4: The Town will continue the local CAMA development Permit Program using town employees. The Town will continue to monitor and update the CAMA Land Use Plan in accordance with the state guidelines. All policies and actions listed in the CAMA Land Use Plan.

Progress: The Town has not updated the local CAMA Land Use Plan; however, the standards outlined in the plan have been enforced. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC8

Strategy Oak Island 5-3.1.5: The Planning Board will continue review of current zoning, building and development codes to determine consistency with Land Use and Coastal Management Policies. This process focuses on the codes adopted by the Town Council --- zoning ordinance, subdivision regulations, flood damage prevention ordinance, and stormwater ordinance. The Planning Board will make recommendations to the Town Council on any required code adjustments needed to maintain consistency with the Land Use Plan policies, and to minimize impacts of natural hazards.

Progress: The Town has not amended the codes over the last five years; however, these regulations have been enforced. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10, BC25

Strategy Oak Island 5-3.1.6: The town will continue with the installation of the central wastewater treatment system. The wastewater program involves multiple phases. Each phase will be reviewed and approved by the Town Council before proceeding to the next step. Ongoing Stormwater runoff planning: actively implementing additional regulations for limiting impervious surfaces, re-routing stormwater from public streets, and maintaining natural watercourses for proper drainage. The town is aggressively seeking and studying ways to expand and more efficiently operate its biological wastewater treatment facility.

Progress: The Town has completed installation of the Town's central wastewater system. No amendments have been made to the Stormwater Management Ordinance. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2

Strategy Oak Island 5-3.1.7: The Town staff will continue holding multi-government preparedness meeting yearly to update, change, and clarify evacuation information. By cooperating with the other local governments, Fire and Police Departments, Brunswick Electric Membership Corporation, Progress Energy Carolinas, Inc., Brunswick County Emergency Management, Brunswick County Sheriff's Department, U.S. Coast Guard, and the N.C. State Police we achieve the best possible evacuation and re-entry plans possible for Oak Island.

Progress: The Town has collaborated with the County and other relevant jurisdictions/agencies to implement the County Emergency Operations Plan over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: B5

Strategy Oak Island 5-3.1.8: The Town Council supports the TIP projects (Second Bridge and 211 Intersection realignment) that help with evacuation of the Island.

Progress: The Town has pro-actively supported the NCDOT in their efforts to implement the County TIP. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Oak Island 5-3.1.9: The code officers will continue enforcement of an ordinance that prohibits structures on the public beach. It is the policy of the town to prohibit any structure from landing on public property. Public property, in this case is defined as any area seaward of the mean high tide line as surveyed and recorded by the USACE prior to the commencement of the Sea Turtle Habitat Restoration Project and the Section 933 Cape Fear River Dredging Project. Continue enforcement of the other ordinances limit the construction of decks, walkways, and steps of oceanfront structures. These steps were taken to minimize damage created from debris and projectiles during storm events and storm surge. These ordinances are reviewed as necessary, making changes that will better protect the interests of the town and its residents. The town will continue to participate in the Coastal Strom Damage Reduction Project and the Wilmington Sand Management Plan.

Progress: Due to the rapidly changing issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Oak Island 5-3.1.10: Continue development of a strategic plan/capital improvements program.

Progress: The Town has maintained a CIP over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC16

Strategy Oak Island 5-3.1.11: Present these plans quickly to the public and make sure they are available to all municipal buildings, libraries, and any other public site possible. The Town of Oak Island broadcasts these plans on the town-operated television and radio channels as well as the local radio and news stations. Plan activities to educate the general public of planning for floods, storm events, and evacuations. Implement and assist staff in the organization of public information meetings, holding

question and answer forums on preparedness, planning hazards, development, and mitigation.

Progress: This strategy has been carried out as a function of the Town's emergency management program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC5, BC46

Strategy Oak Island 5-3.1.12: Ongoing review and updates to the Floodplain Management Plan and Action Plan. Assisting staffs with information gathering to better improve the Town's NFIP CRS rating.

Progress: This strategy is being accomplished through this plan update and therefore will be eliminated. The process for implementation and future updates is outlined in Section 7 of the plan.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Oak Island 5-3.2.1: After any event that causes damages to structures located in what are considered to be in repetitive loss areas, we encourage those people that must replace pilings to raise their non-conforming structures out of the floodplain. As an incentive to do this, the cost of the pilings is not calculated in their repair. The Division of Coastal Management also utilizes these guidelines. Continue enforcement of building codes.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies

(Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28, BC43

Strategy Oak Island 5-3.2.2: Continue to monitor and update the CAMA Land Use Plan in accordance with the state guidelines, preparing for the next update in 2004. (update underway 2008)

Progress: The Town has not updated the local CAMA Land Use Plan; however, the standards outlined in the plan have been enforced. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC8

Strategy Oak Island 5-3.2.3: Continue Planning Board review of current zoning, building and

development codes to determine consistency with Land Use and Coastal Management Policies. This process focuses on the codes adopted by the Town Council - zoning ordinance, subdivision regulations, flood damage prevention ordinance (2006), and stormwater ordinance (2009). The Planning Board will make recommendations to the Town Council on any required code adjustments needed to maintain consistency with the Land Use Plan policies, and to minimize impacts of natural hazards.

Progress: The Town has not amended the codes over the last five years; however, these regulations have been enforced. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Oak Island 5-3.2.4: Form an aggressive stormwater committee. (completed) Fill the advertised position of Stormwater Management Coordinator. The stormwater officer will be responsible for planning for and mitigating stormwater runoff problems and implementing the National Pollutant Discharge Elimination System Phase II permit. (completed) The central business district will be receiving sewer within the end of the year. (completed) Initiate planning for a central wastewater treatment system, consisting of a background information, a wastewater master plan, and system design. (under construction) Develop a comprehensive stormwater program. (completed) Develop a water quality improvement plan for Davis Creek. Develop sub basin drainage improvement plan.

Progress: The Town has not established a stormwater management committee; however, local and state stormwater management regulations have been enforced. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Oak Island 5-3.2.5: Secure a second bridge to Oak Island. During the summer months weekend traffic slows to a crawl creating a hazard for vehicles and pedestrians. By securing a second bridge, evacuations, which at this time could take as much as twelve to twenty four hours, could be cut in half. Safety of the residents before an impending storm is the top priority of Oak Island. It is possible that the island could be completely cut off from the mainland for weeks at the time if the current bridge was damaged or became impassable. The Town will cooperate with Brunswick County to develop a regional approval to implementation of the Second Bridge Corridor Plan (done bridge under construction)

Progress: The Town pro-actively supported the NCDOT in their efforts to implement the County TIP. This strategy has been completed and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Oak Island 5-3.2.6: Implement a beach preservation plan including: (1) the implementation of an ongoing beach preservation program; (2) implementation of the Sea Turtle Habitat Restoration Project; and (3) develop a maintenance program for the long-term success of these projects. Continue participation in the Coastal Storm Damage Reduction Project. Continue participation in the Wilmington Harbor Sand Management.

Progress: Due to the rapidly changing issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Oak Island 5-3.2.7: Complete Development Services Assessment to the hazards of flooding particular to Oak Island.

Progress: This strategy has been carried out as a function of the Town's Emergency Management Program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Oak Island 5-3.2.8: Continue review and update procedures as provided in the Floodplain Management and CAMA Land Use Plan. Continue to review existing ordinances in regards to hazard mitigation.

Progress: The Town has worked diligently to carry out the terms and policies outlined in the Town's CAMA Land Use Plan and other land use regulatory ordinances.

Status/Corresponding 2015 Strategy: BC8

Strategy Oak Island 5-3.2.9: Continue to enforce local codes on building and development - zoning, subdivision regulations, NC State Building Code, Flood Damage Prevention, Stormwater Regulations, and Dune Protection Regulations.

Progress: The Town has diligently enforced the NC State Building Code and all other local regulations over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Town of Ocean Isle Beach

Strategy Ocean Isle Beach 1.1.1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a Town-sponsored workshop.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Ocean Isle Beach 1.1.2: Distribute Town-sponsored hazard mitigation materials for the community residents, including information on preparedness for all hazards significant to Ocean Isle Beach on Super Saturday Weekend. These materials can be part of the "Super Saturday Weekend" at Thanksgiving (the weekend most property owners are in Town for annual Homeowner Association meetings) each year.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Ocean Isle Beach 1.1.3: Provide all property owners a Flood Ordinance pamphlet containing information on the flood protection ordinance and flood insurance program.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: R7, BC1

Strategy Ocean Isle Beach 1.1.4: Provide existing homeowners and new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the Town hall and other community owned, public facilities in Town such as the Coastal Museum, the Community Center, the Fire Department, the Airport, and on the Town's website.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Ocean Isle Beach 1.2.1: Manually disperse and have a website posting which provides information about the Ocean Isle Beach Emergency Response Plan (updated by staff yearly) and relevant emergency response actions the public can take. Also ensure each Town department possesses a clear list of department responsibilities as outlined in the plan. Update department contacts as they change.

Progress: The Town has worked closely with Brunswick County Emergency Management, over the last five years, in an effort to provide citizens with accurate information regarding Natural Hazards through the Town's website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy Ocean Isle Beach 1.2.2: Manually disperse and have a website posting which provides information about the Town's Community-Based Hazard Mitigation Plan and relevant mitigation measures the public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: Information regarding the Town's existing plan has been provided to residents over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1

Strategy Ocean Isle Beach 1.3.1: Continue to update the Town of Ocean Isle Beach Emergency Response Plan on an annual basis.

Progress: This strategy has been carried out over the last five years in concert with updates to the County Emergency Operations Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Ocean Isle Beach 1.4.1: Maintain evacuation routes in the event of a hazardous event. The Town should develop a plan of action to facilitate the evacuation of Ocean Isle Beach in case of a hazardous event. The NCDOT in cooperation with the Town have posted the evacuation route with blue evacuation signs on the mainland and island roads. The evacuation route is also posted on the Town's website when there is a threat of evacuation.

Progress: Evacuation routes are reviewed and updated annually as necessary through mandated County Emergency Operations Plan updates in collaboration with NCDPS. The County will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC21

Strategy Ocean Isle Beach 1.4.2: The Town should publicize, on the Town's website, a map of evacuation routes which will facilitate the evacuation of Ocean Isle Beach in case of a hazardous event.

Progress: The Town has maintained an evacuation route map via the County Emergency Services website over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This
change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC21

Strategy Ocean Isle Beach 1.5.1: Provide cell phones, pagers, and radios or other communication equipment to ensure all emergency personnel can communicate during and event. This link should be provided to all town departments as well as other local, state, and federal officials.

Progress: The Town has collaborated with the Brunswick County Emergency Management Department

to increase communication capabilities over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC50

Strategy Ocean Isle Beach 2.1.1: Monitor the status of communications for all critical public facilities. Test and monitor communications equipment on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town has collaborated with the Brunswick County Emergency Management Department to increase communication capabilities over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Ocean Isle Beach 2.1.2: Monitor the status of backup generators for all critical public facilities. SCADA monitors the infrastructure daily and automatically notifies the Town if there is a problem or malfunction. Test generators, on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Ocean Isle Beach 2.1.3: Purchase a portable generator to ensure the Town Hall, one of the Town's critical facilities, is always operational during disaster recovery operations.

Progress: This strategy has been completed and therefore will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Ocean Isle Beach 2.1.4: Monitor the status of vehicles for all critical public facilities. Examine vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: This strategy has been carried out by the Town over the last five years. The actions defined

under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Ocean Isle Beach 3.1.1: Continue to enforce the North Carolina Building Code, CAMA regulations, and the Flood Damage Prevention Ordinance. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the International Building Codes, CAMA regulations, and local ordinances such as the Flood Ordinance.

Progress: The Town has diligently enforced the NC State Building Code and all local and State CAMA regulations over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC22, BC25, BC28

Strategy Ocean Isle Beach 3.2.1: Monitor trees and branches, in public areas, at risk of breaking or falling in wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines, or other significant structures or critical facilities in the Town.

Progress: The Town's Public Works department in conjunction with local utility providers has worked over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Ocean Isle Beach 3.3.1: Develop a Debris Management Plan.

Progress: The Town has not developed this plan; however, over the last five years the Town has maintained a contract with a Qualified Post-Disaster Debris Contractor.

Status/Corresponding 2015 Strategy: BC38

Strategy Ocean Isle Beach 4.1.1: Update the current GIS/GPS setup and provide training on said setup to all pertinent town personnel.

Progress: This strategy has been completed and therefore, will be removed through the plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Ocean Isle Beach 4.2.1: Develop a database that identifies each property that has received damage due to hazards identified within this mitigation plan. The database should include a tax identification number of the property, a description of the property damage, the value of the damage, and links to photographs of the damage. Developing this database will allow the Town to easily identify properties at high risk of damage from certain hazards as well as properties which receive repetitive damage from multiple hazards. In an effort to gain historical information, the Town should send a survey to all residents requesting information that should be included in the database.

Progress: The Town addresses this issue on an ongoing basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy Ocean Isle Beach 5.1.1: Work with citizens to acquire grants to elevate properties that are at danger of flooding.

Progress: The Town did not treat any repetitive loss properties with elevation over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC26

Strategy Ocean Isle Beach 5.2.1: To apply for grants to move a sewer pump station out of a flood zone in a repetitive flood area to protect infrastructure.

Progress: This strategy has not been carried out; however, the Town will continue to work closely with NCDPS to address this need as necessary. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies

(Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC26

Strategy Ocean Isle Beach 6.1.1: Continue to prioritize beach nourishment and other BMPS as a means of mitigating coastal beach erosion. Beach nourishment has been successfully used, in the past, to

increase the amount of sand, to adjust the shoreline profile, to replenish depleted sand supplies and, through literal transport processes to supply sediment to downdrift shorelines.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Ocean Isle Beach 6.1.2: Develop a study to identify alternate beach management systems in an effort to limit erosion.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Ocean Isle Beach 7.1.1: Develop a tornado warning system. Several options exist for a tornado warning system. The most feasible for Ocean Isle Beach would be to develop a siren to warn of oncoming tornados. This siren would have to differentiate from the fire alarm and be well publicized for citizens to recognize.

Progress: This strategy has not been independently developed by the Town; however, the Town has worked with collaboration with Brunswick County Emergency Management regarding this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC46

Strategy Ocean Isle Beach 8.1.1: In order to minimize injury from lightning strikes, shelters should be placed within each mile in the public open space beach areas that do not have other adequate sources of shelter available. As land is subdivided or recombined for a larger development, this recommendation should be incorporated into the zoning and subdivision ordinances.

Progress: This strategy has been eliminated due to lack of political will.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Ocean Isle Beach 8.1.2: Driving in storm conditions can create hazardous road conditions, including decreased ability for drivers to see road boundaries. To improve road visibility, encourage NCDOT to place new reflector tape or paint poles along road edges and reflectors in the centerline on all major roads in the Town.

Progress: The Town continues to collaborate with the County and NCDOT to address this issue. Some progress has been made; however, it continues to be an issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Ocean Isle Beach 9.1.1: Continue to encourage proper waste disposal and recycling. In order to protect the vulnerable aquifer from contamination, the Town should do all it can to prevent seepage of wastes and toxic elements into the ground. Proposal disposal of waste and recycling when possible will aid in this effort. This measure may be implemented through a Town policy or through public education measures.

Progress: This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Ocean Isle Beach 10.1.1: Maintain fire event preparedness. The fire department has the responsibility to assure the Town's protection during fire events. Part of this responsibility is dependent upon the department's ability to maintain the materials and a knowledge base for addressing such an event. This responsibility must be supported by provision of adequate funding for the continuing education and materials necessary to maintain this preparedness.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Ocean Isle Beach 10.2.1: Explore and seek access to all potential sources of information and communication regarding early fire detection.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC35, BC50, BC52

Strategy Ocean Isle Beach 10.2.2: Evaluate and improve fire sighting procedures.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Ocean Isle Beach 10.2.3: Ensure the fire hydrants are working properly.

Progress: The Town Public Works department works closely with the Town fire department to inspect all hydrants annually to ensure they are working properly. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Ocean Isle Beach 11.1.1: Maintain hazardous materials event preparedness. The Town should develop a plan of action to maintain the materials and knowledge base for addressing such a spill, or develop preliminary measures to assist the county till the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness.

Progress: The Town has not completed this effort; however, Town emergency management has worked closely with the County LEPC to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Ocean Isle Beach 12.1.1: Maintain nuclear event preparedness. The Town should develop a plan of action to maintain the materials and knowledge base for addressing a nuclear event, or develop preliminary measures to assist the county until the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness. This may be made part of the Towns Emergency Response Plan.

Progress: The Town's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
OIB1	Inspect all fire hydrants within the Town's corporate limits on a revolving schedule. Through this effort, the Town will aim to inspect each hydrant a minimum of two times per calendar year.	Fire	High	Sunset Beach Fire Department Brunswick County Emergency Services	General Funds, NCDPS	Deleted as part of the 2021 update	This is an ongoing maintenance activity for the Town and will be removed from future plan updates.
OIB2	Continue to maintain National Weather Service StormReady and TsunamiReady designations.	Hurricane	Moderate	Ocean Isle Beach Administration Brunswick County Emergency Services	General Funds, NCDPS, NWS	Deleted as part of the 2021 update	This is an ongoing capability for the Town and will be removed from future plan updates.

Town of Sandy Creek

Strategy Sandy Creek P-1: In cooperation with Brunswick County, update the CAMA Land Use Plan.

Progress: The Town continues to collaborate with Brunswick County Planning on update of the CAMA Land Use Plan which was last amended in 2011. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC8

Strategy Sandy Creek P-2: Work with Brunswick County to set up a program to advise/assist property owners in retrofitting homes, businesses, and institutional facilities. (CRS 320)

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Sandy Creek P-3: In cooperation with Brunswick County, ensure, when possible, that no public facilities are proposed for flood hazard areas. Protect new critical facilities (e.g., schools, hospitals, fire stations, emergency shelters) to 2' above the 500-year flood elevation (5' above BFE). (CRS 430)

Progress: No modifications have been made to Town critical facilities over the last five years; however, the Town continues to utilize the data in this plan when considering development of new critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3

Strategy Sandy Creek P-4: In cooperation with Brunswick County, continue program for evaluation and improvement of critical facilities (public and private) – roads, bridges, water, sewer, electricity, etc. – and critical services – fire, rescue, medical, etc.

Progress: No modifications have been made to Town critical facilities over the last five years; however, the Town continues to utilize the data in this plan when considering development of new critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through

updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3

Strategy Sandy Creek P-5: Adopt a Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events. (CRS 430)

Progress: The Town adopted a FDPO in 2005 and will continue to review and update it as deemed necessary, or when mandated by NCDPS and/or FEMA. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy Sandy Creek P-6: As a follow-up to the update of the CAMA Land Use Plan, evaluate the zoning ordinance for its ability to target and direct growth to areas consistent with Land Use Plan policies.

Progress: This strategy has not been carried out to date, but will be considered through implementation of this update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC8, BC10

Town of Shallotte

Strategy Shallotte PI-1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a City-sponsored workshop.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Shallotte PI-2: Hold a Town-sponsored hazard mitigation seminar for the community residents, including information on preparedness, mitigation, and response for all hazards significant to Shallotte.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: Table 6-5 (page 6-40)

Strategy Shallotte PI-3: Provide new home and property buyers with information on quality redevelopment and safe housing development.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC45

Strategy Shallotte PI-4: Manually disperse and have a website posting which provides information about the Town's Emergency Response Plan and relevant emergency response actions the public can take. Also ensure each Town department possesses a clear list of department responsibilities as outlined in the plan. Update department contacts as they change.

Progress: The Town maintains information regarding emergency management procedures and personnel responsibilities on the Town's website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1, BC45

Strategy Shallotte PI-5: Manually disperse and have a website posting which provides information about the Town's Community-Based Hazard Mitigation Plan and relevant mitigation measures the public can take. Provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: The Town maintains information regarding emergency management procedures and personnel responsibilities on the Town's website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an

effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1, BC45

Strategy Shallotte PI-6: The Town should distribute via gas/electric bills maps of evacuation routes which will facilitate the evacuation of Shallotte in case of a hazardous event.

Progress: This strategy has not been carried out at the local level. The Town relies on Brunswick County Emergency Management to carry out this strategy. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, Table 6-5 (page 6-40)

Strategy Shallotte PI-7: Develop a Town-sponsored website where information relating to hazard mitigation, emergency response, and emergency preparedness can be posted.

Progress: The Town has and will continue to maintain Mitigation and Emergency Response information on the Town's website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1, BC5

Strategy Shallotte PI-8: Work with Brunswick County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: The Town has pro-actively enforced and educated the public about the Water Shortage Response Plan over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: B53

Strategy Shallotte P-1: Continue to update the Town of Shallotte Emergency Response Plan on an annual basis. The Emergency Response Plan should contain detailed information on responsible parties and contact info; this info should be updated as positions and contact information change.

Progress: The Town reviews and updates the local emergency response procedures in conjunction with Brunswick County emergency management annually. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Shallotte P-2: Maintain evacuation routes in the event of a hazardous event.

Progress: The Town has and will continue to work closely with Brunswick County Emergency Management and NCDOT to maintain local evacuation routes. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: B5, B21, B37

Strategy Shallotte P-3: The Town should publicize, on the Town's website, maps of evacuation routes which will facilitate the evacuation of Shallotte in case of a hazardous event.

Progress: The Town has and will continue to work closely with Brunswick County Emergency Management and NCDOT to maintain and publish local evacuation routes. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Shallotte P-4: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Shallotte P-5: Purchase, as necessary, backup generators as determined by results of Action P-4.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Shallotte P-6: Install, as necessary, generator quick connects, as determined by results of Action P-4.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators quick connects were installed during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: B51

Strategy Shallotte P-7: Continue to contract with Brunswick County to enforce the North Carolina State Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the International Building Code.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Shallotte P-8: Monitor trees and branches, in public areas, at risk of breaking or falling in wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines or other significant structures or critical facilities in the Town.

Progress: The Town's Public Works department in conjunction with local utility providers has worked over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Shallotte P-9: The Town will take a proactive approach in investigating dangerous damaged structures and should take prompt action in condemning damaged structures that have been abandoned.

Progress: The Town addresses this issue on an ongoing basis due to rapidly changing shoreline migration and erosion issues and concerns. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC30

Strategy Shallotte P-10: Revise the Subdivision Ordinance to require underground utilities in all new residential developments, as well as all residential developments that have suffered major damage or disruption of service due to disasters, to decrease the potential for service interruption due to high wind events, ice storms, snow storms, and the like.

Progress: This strategy was not accomplished due to lack of political will and funding; therefore, it will be eliminated.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-11: Encouraged Brunswick County Electric Corporation to bury current utility lines to decrease the potential for service interruptions due to high wind events, ice storms, snow storms, and the like.

Progress: This strategy was not accomplished due to lack of political will and funding; therefore, it will be eliminated.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-12: Purchase a complete GIS/GPS setup and provide training on said setup to all pertinent Town personnel.

Progress: This strategy has been completed and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Shallotte P-13: Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the Town's capability to generate maps when needed.

Progress: Over the last five years, Brunswick County, in collaboration with all participating municipalities, worked to expand upon and improve the quality of county-wide GIS data. The County will continue to work closely with municipalities to establish and maintain a robust and comprehensive GIS system. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC43

Strategy Shallotte P-14: Develop a database that identifies properties with damage due to hazards identified within this plan.

Progress: The Town has not been diligent in carrying out this strategy. These efforts will continue in conjunction with the County GIS. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation

Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy Shallotte P-15: Revise the Zoning Ordinance to require the utilization of various pervious surfaces within the floodplain to reduce stormwater runoff.

Progress: This strategy was not accomplished and is being eliminated due to changing views regarding the use of permeable pavement. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-16: Establish a Stormwater Management Ordinance that will require runoff and drainage from development and agriculture activities to be of a quality as near to natural conditions as possible.

Progress: This strategy has been completed and will be enforced through future updates of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Shallotte P-17: Continue to implement a 1-foot freeboard but explore the option of instituing a 2-foot freeboard requirement.

Progress: The Town has not established a 2-foot freeboard. The 1-foot freeboard requirement will continue to be enforced and the Town will consider increasing it to 2-feet through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts
focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy Shallotte P-18: Develop a Shoreline Management Plan to address the long-term issue of shoreline erosion.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-19: Establish a Shoreline Protection Committee that will work with the Town Council to solicit funds for shoreline preservation, educate the public on shoreline preservation matters, oversee preservation project development, monitor shoreline change, and report any major issues to the Board of Aldermen.

Progress: This strategy has been eliminated in an effort to establish current policy for the Town regarding shoreline stabilization and management.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-20: Encourage NCDOT to install new reflector tape or paint along road edges and in the dividing line on all major roads.

Progress: This strategy has not been accomplished locally. The Town will continue to work with the Cape Fear MPO and NCDOT to carry out this strategy through implementation of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Shallotte P-21: Place shelters every five acres in all public open space areas in order to minimize the injury from lightning strikes.

Progress: This strategy is being eliminated due to the fact that the Town is not implementing this strategy and funding is not available to carry it out.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-22: Require lightning detection devices be installed in public outdoor gathering areas such as school stadiums.

Progress: This strategy is being eliminated due to the fact that the Town is not implementing this strategy and funding is not available to carry it out.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-23: Continue to encourage proper waste disposal and recycling.

Progress: This strategy was deemed a day-to-day function of the Town, and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-24: Amend the Zoning Ordinance to prohibit underground chemical and gasoline storage, as set forth by the EPA and the NC Building Code, in an effort to minimize risks to natural resources.

Progress: This strategy has not been carried out but the Town works closely with the County LEPC and NCDEQ to enforce these standards. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Shallotte P-25: Amend the Zoning Ordinance to prohibit the storage of toxic wastes within the planning jurisdiction.

Progress: This strategy has not been carried out but the Town works closely with the County LEPC and NCDEQ to enforce these standards. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Shallotte P-26: Continue to implement a recycling program that reduces solid waste disposal that could potentially lead to natural resource contamination.

Progress: This strategy was deemed a day-to-day function of the Town, and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte P-27: Encourage intergovernmental cooperation to ensure continued pure supply of potable water.

Progress: The Town continues to work with the County water and sewer districts to ensure a continued supply of potable water. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2

Strategy Shallotte P-28: Maintain fire event preparedness.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continue involve continued education, training exercises, and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a

result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Shallotte P-29: Explore and seek access to all potential sources of information and communication regarding early fire detection.

Progress: Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continue involve continued education, training exercises, and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Shallotte P-30: Evaluate and improve fire fighting procedures.

Progress: Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continue involve continued education, training exercises, and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC52

Strategy Shallotte P-31: Ensure the fire hydrants are working properly.

Progress: The Town public works department works closely with the Town fire department to inspect all hydrants annually to ensure they are working properly. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC52

Strategy Shallotte P-32: Maintain hazardous materials event preparedness.

Progress: The Town has not completed this effort; however, Town emergency management has worked closely with the County LEPC to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Shallotte P-33: Continue to implement the recommendations in the Shallotte Thoroughfare Plan

adopted in February 2002.

Progress: The Town has and will continue to work with NCDOT to implement the recommendations contained in the Thoroughfare Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Shallotte P-34: Maintain nuclear event preparedness.

Progress: Progress: The Town's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC49

Strategy Shallotte NRP-1: Protect and enhance shoreline vegetation.

Progress: The Town has not addressed this issue locally, but will work with NCDEQ regarding shoreline protection. The actions defined under this locally specific strategy statement will continue, but are now
addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC22

Strategy Shallotte NRP-2: Continue to seek funding for implementation of the recommendations in the Waterfront Access and Development Plan.

Progress: This strategy has been deemed irrelevant to the Town's mitigation program and has been eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte NRP-3: Develop local Water Shortage Response Guidelines (in phases) as a part of the Shallotte Emergency Response Plan as it relates to the expectations of the Town's water supplier.

Progress: This effort was not completed over the last five years and has been deemed redundant to water conservation measures adopted through ordinance; therefore, it will be eliminated.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte NRP-4: Connect rainwater retention drums to downspouts of each gutter system on every municipal building within Shallotte.

Progress: This strategy was determined not to be a mitigation measure and therefore, is being eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Shallotte ES-1: Develop a tornado and waterspout warning system using the current fire alarm.

Progress: This strategy has not been completed locally, but the Town will work closely with County Emergency Management regarding this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC46

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
SH23	Support the relocation of structures endangered by erosion, if the relocated structure will be in compliance with all applicable policies and regulations. Additionally, the issue of tax base loss should be taken into account within municipal jurisdictions.	~~Landslide~~	High	~~Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Oak Island, Ocean Isle Beach, Sandy Creek, Shallotte, Southport, St. James, Sunset Beach, Varnamtown~~	~~Brunswick Co Planning NCDPS~~	~~General Funds, NCDPS~~		Remove – Shallotte has very little areas affected by shoreline erosion
SH34	~~Continue and expand the program to retrofit schools and other public facilities to serve as emergency shelters.~~	All	Moderate	Shallotte	Brunswick Co Schools Brunswick Co Administration	General Funds, NCDPS		Remove
SH40	~~Continue to support efforts to place spoil materials from channel maintenance and dredging on Brunswick County beaches, including each of the incorporated municipalities, as warranted.~~	All	Moderate	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Oak Island, Ocean Isle Beach, Sandy Creek, Shallotte, Southport, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration Municipal Administrations	General Funds, NCDPS		Action deleted

Action #	Description	Hazard(s) Addressed	Relative Priority	Applicable Jurisdictions	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
SH41	~~Support Section 206 Lower Lockwood Folly River Aquatic Habitat Restoration Project (removal of sediment bars to increase tidal flushing and improve aquatic habitat).~~	Flood	High	Brunswick County, Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Oak Island, Ocean Isle Beach, Sandy Creek, Shallotte, Southport, St. James, Sunset Beach, Varnamtown	Brunswick Co Administration	General Funds, NCDEQ, NCDOT		Action deleted
SH53	Continue to enforce and adopt water shortage response plans and water shortage ordinances for municipalities operating central water service.	Drought	High	Shallotte	Shallotte Utilities	General Funds, NCDEQ	Ongoing	Delete- Brunswick County manages the water utility, shortage response plans and water shortage ordinances. This action will be removed from future updates and plans.

City of Southport

Strategy Southport PI-1 : Educate contractors about principles for quality redevelopment and safe housing development through written materials or a City-sponsored workshop.

Progress: The City's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Southport PI-2: Hold a City-sponsored hazard mitigation seminar for the community residents, including information on preparedness, mitigation, and response for all hazards significant to Southport.

Progress: The City's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: R7, BC1, BC5

Strategy Southport PI-3: Provide new home and property buyers with information on quality redevelopment and safe housing development.

Progress: The City's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: R7, BC1, BC45

Strategy Southport PI-4: Manually disperse and have a website posting which provides information

about the City's Emergency Response Plan and relevant emergency response actions the public can take.

Progress: The City of Southport has maintained information regarding the City's existing Hazard Mitigation Plan and Emergency Response procedures on the City's website over the last five years. Upon adoption, this Regional plan will replace the existing document, and will be disseminated to the public. The City will rely on Brunswick County Emergency Management to provide detailed information regarding County Emergency Management protocol. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1, BC45

Strategy Southport PI-5: Manually disperse and have a website posting which provides information about the City's Hazard Mitigation Plan and relevant mitigation measures that public can take. Provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: The City of Southport has maintained information regarding the City's existing Hazard Mitigation Plan on the City's website over the last five years. Upon adoption, this Regional Plan will replace the existing document, and will be disseminated to the public. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: R7, BC1, BC45

Strategy Southport PI-6: The City should distribute via gas/electric bills maps of evacuation routes which will facilitate the evacuation of Southport in case of a hazardous event.

Progress: The City has not carried out this strategy over the last five years. The City has and will continue to rely on Brunswick County Emergency Management for the dissemination of this information. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5, BC45

Strategy Southport PI-7: Work with Brunswick County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: The City has not direct mailed notices to property owners regarding the Water Shortage Response Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a
result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Southport P-1: Update the City's Emergency Response Plan.

Progress: The City reviews and updates the local Emergency Response procedures in conjunction with Brunswick County Emergency Management annually. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Southport P-2: Maintain evacuation routes in the event of a hazardous event.

Progress: The City maintains links on the municipal website to information regarding evacuation routes necessary in the event of a natural hazard event. This information is updated and maintained by Brunswick County Emergency Management and NCDPS. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Southport P-3: The City should publicize, on the City's website, maps of evacuation routes which will facilitate the evacuation of Southport in case of a hazardous event.

Progress: The City has maintained links on the municipal website to information regarding evacuation routes necessary in the event of a natural hazard event. This information is updated and maintained by Brunswick County Emergency Management and NCDPS. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy Southport P-4: Monitor the status of backup generators, communications, and vehicles for all critical public facilities.

Progress: The Town carries out routine maintenance on annual basis through the Town's public works department. No new generators were acquired. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Southport P-5: Purchase, as necessary, backup generators as determined by the results of Action P-4.

Progress: The Town carries out routine maintenance on annual basis through the Town's public works department. No new generators were acquired. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Southport P-6: Install, as necessary, generator quick connects, as determined by the results of Action P-3.

Progress: The Town carries out routine maintenance on annual basis through the Town's public works department. No new generator quick connects were acquired. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Southport P-7: Continue to enforce the North Carolina State Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the North Carolina State Building Codes.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Southport P-8: Monitor trees and branches, in public areas, at risk of breaking or falling in wind, ice, and snow storms.

Progress: The City's public works department in conjunction with local utility providers has worked over the least five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Southport P-9: The City will take a proactive approach in investigating dangerous damaged

structures and should take prompt action in condemning damaged structures that have been abandoned.

Progress: The City addresses this issue on an ongoing basis due to shoreline migration and erosion. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC30

Strategy Southport P-10: Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the City's capability to generate maps when needed.

Progress: The City has not established a comprehensive GIS system and will work closely with the County to maintain and expand upon it. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC43

Strategy Southport P-11: Develop a database that identifies properties with damage due to hazards identified within this mitigation plan.

Progress: The Town addresses this issue on an ongoing basis due to shoreline migration and erosion. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy Southport P-12: Improve the City's tax database to include information that will distinguish property as residential, commercial, industrial, or governmental. This database should also be expanded to identify developed or undeveloped properties.

Progress: The City has completed this effort over the last five years through ongoing land use planning efforts. This database will be updated as land use patterns change over the next five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy Southport P-13: Revise the Zoning Ordinance to require the utilization of various pervious surfaces within the floodplain to reduce stormwater runoff.

Progress: This strategy is being eliminated due to the changing views regarding the use of permeable pavement as an effective method for curbing non-point source stormwater runoff. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Southport P-14: Revise Zoning and Subdivision Ordinances to incorporate shoreline vegetation protection buffers along AECs in order to protect the character and to help mitigate flooding.

Progress: Over the last five years, the City of Southport has relied on NCDEQ and existing coastal CAMA regulations to address shoreline protection measures. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Southport P-15: Revise the Zoning Ordinance and Subdivision Ordinance to increase lot sizes in areas with poor soils.

Progress: This strategy has not been carried out and is being eliminated due to a lack of political will.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Southport P-16: Take a more proactive approach to participation in the Community Rating System.

Progress: The City has participated in the CRS program over the last five years; however, the City will take a stronger approach to program participation through implementation of this plan update.

Status/Corresponding 2015 Strategy: BC1, BC7

Strategy Southport P-17: Develop a plan, which will include annual monitoring of erosion, to address the long-term issue of erosion using several methods of erosion prevention and control.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Southport P-18: Encourage NCDOT to install new reflector tape or paint along road edges and in the dividing line on all major roads.

Progress: This strategy has not been accomplished locally; however, the City in collaboration with other

County participants will work with NCDOT on this issue through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC11

Strategy Southport P-19: Continue to encourage proper waste disposal and recycling.

Progress: This strategy is considered a day-to-day function of the City and not relevant to the City's mitigation program, therefore, it will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Southport P-20: Amend the zoning ordinance to prohibit underground chemical and gasoline storage that are a risk to groundwater resources.

Progress: The City has not accomplished this strategy, but rather relies on Statewide regulations regarding the installation of underground storage tanks to regulate this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Southport P-21: Amend the zoning ordinance to prohibit the storage of toxic wastes within the planning jurisdiction.

Progress: The City has not accomplished this strategy, but rather relies on Statewide regulations regarding the storage of toxic waste to regulate this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Southport P-22: Encourage intergovernmental cooperation to ensure continued pure supply of potable water.

Progress: The City has worked closely with local water service providers over the least five years to ensure access to a clean and consistent potable water supply. The actions defined under this locally specific strategy

statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC2

Strategy Southport P-23: Amend the Stormwater Management Ordinance to include a list of potentially hazardous materials that should not be deposited into local drainage systems or surface waters.

Progress: The City incorporated restrictions regarding the disposal of hazardous materials into stormwater drainage basins in 2013. Enforcement of these standards continues. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Southport P-24: Maintain fire event preparedness.

Progress: The City's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises, and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Southport P-25: Explore and seek access to all potential sources of information and communication regarding early fire prevention.

Progress: The City's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises, and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35, BC52

Strategy Southport P-26: Evaluate and improve fire fighting procedures.

Progress: The City's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises, and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC35, BC52

Strategy Southport P-27: Ensure the fire hydrants are working properly.

Progress: The City's public works department works closely with the City's fire department to inspect all hydrants annually to ensure they are working properly. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Southport P-28: Update the Disaster Response Plan.

Progress: The City reviews and updates the local emergency response procedures in conjunction with Brunswick County Emergency Management annually. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Southport P-29: Place a fireproof buffer along the railroad tracks in the City limits or ETJ.

Progress: This strategy has not been implemented due to a lack of political will.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Southport P-30: Limit development adjacent to the railroad tracks.

Progress: This strategy has not been implemented due to a lack of political will and the impact it would have on development potential along these corridors; however, the City will continue to consider this strategy through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC58

Strategy Southport P-31: Maintain hazardous materials event preparedness.

Progress: The City has not completed this effort; however, City emergency management has worked closely with the County LEPC to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Southport P-32: Maintain nuclear event preparedness.

Progress: The City has worked diligently with Brunswick County Emergency Management to maintain nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC49

Strategy Southport P-33: Place the City's power lines underground.

Progress: This strategy has been eliminated due to a lack of funding and political will.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Southport NRP-1: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Southport Emergency Response Plan as it relates to the expectations of the City's water supplier.

Progress: The City has worked over the last five years to develop and enforce local water shortage response guidelines. The City will continue to work closely with County and Regional water supply entities to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC53

Strategy Southport NRP-2: The City should continue their proactive approach to mitigation by connecting Rainwater Retention Drums to the downspouts of each gutter system on every municipal building within Boiling Spring Lakes. The collected water should be used to irrigate all municipal gardens, parks, lawns, and the like.

Progress: This strategy has been eliminated due to a lack of political will and funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Southport ES-1: Develop a tornado and waterspout warning system using the current fire alarm.

Progress: This strategy has not been accomplished; however, the City will continue to work closely with Brunswick County Emergency Management through the County EOP to improve upon waterspout and tornado warning mechanisms. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table
6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC46

Strategy Southport PP-1: Protection of Southport's sewer treatment plant.

Progress: This strategy is being eliminated from the plan due to vague and ambiguous language. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: Eliminated

Town of St. James

Strategy St. James P-1: Continue program for evaluation and improvement of critical facilities (public and private) – roads, bridges, water, sewer, electricity, etc. – and critical services – fire, rescue, medical, etc.

Progress: The Town has worked closely over the last five years to improve upon the stability and effectiveness of critical facilities within and adjacent to the Town of St. James. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC16

Strategy St. James P-2: Consider participation in the Community Rating System using Hazard Mitigation Plan components to fulfill application requirements.

Progress: The Town has not joined the CRS program to date. Participation in the program will be considered through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC7

Strategy St. James P-3: In cooperation with Brunswick County, review and update as necessary the Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events (CRS 430). Consider raising the minimum flood protection level from 1' above base flood elevation to 2' or more above BFE.

Progress: The Town continues to review/update and enforce the local Flood Damage Prevention Ordinance as required by NCDPS and FEMA. No updates have been conducted over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy St. James P-4: Employ specific provisions of the zoning ordinance to seek ways to expand the ETJ as well as the existing corporate limits to control land use.

Progress: This strategy is being eliminated from the plan due to the political restrictions surrounding this issue.

Status/Corresponding 2015 Strategy: BC10

Strategy St. James P-5: In cooperation with Brunswick County, review rebuilding activities after major storm events to determine how revisions to existing policies and procedures could help minimize repetitive losses.

Progress: The Town has worked closely with Brunswick County to establish a response and rebuilding plan that will expedite this process following natural hazard events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County- wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC13

Strategy St. James P-6: Consider an inventory of existing lots and structures within flood hazard areas to establish base flood elevation and finished 1st floor elevation.

Progress: This strategy has been accomplished through the NC Flood Maps update process. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC17

Strategy St. James PP-4: The Town will continue to actively participate in the Fire Wise program to reduce and remove debris that has the potential for fire hazards.

Progress: The Town has effectively carried out activities associated with the Firewise program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of
collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC59

Strategy St. James PP-5: The Town will continue to pursue efforts to reduce storm water runoff by draining, in advance of major storm events, the numerous retention ponds located on golf courses to reduce the amount of localized flooding.

Progress: The Town has pro-actively carried out this process over the last five years in advance of storm events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC60

Strategy St. James ES-1: In cooperation with Brunswick County, ensure adequate evacuation time in case of major hazard events. The Mayor of St. James can invoke mandatory evacuation when needed.

Progress: The Town has worked closely with Brunswick County Emergency Management to ensure that effective and accessible evacuation routes are maintained and properly advertised. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy St. James ES-2: Evaluate areas with limited evacuation capacity and pursue methods for improving capacity. The Town of St. James has the ability, in case of an emergency evacuation, to open a secondary exit route via the application of gravel to an existing drainage ditch.

Progress: The Town has worked closely with Brunswick County Emergency Management to ensure that effective and accessible evacuation routes are maintained and properly advertised. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5, BC21

Strategy St. James ES-3: Evaluate flood or access problems for critical facilities and develop recommendations for protecting these facilities. Identify alternate command post sites.

Progress: Although the Town has not been able to make any substantive changes regarding critical facility vulnerability, efforts have focused on identifying needs that may be addressed through future plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through
updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3, BC5

Strategy St. James S-1: Continue debris removal program to reduce potential hazards during a hazard

event.

Progress: The Town has maintained a contract with a qualified post-disaster debris removal contractor over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC38

Strategy St. James S-2: In cooperation with Brunswick County, continue to support the dredging of waterways to improve function and water quality.

Progress: The Town has supported efforts by Brunswick County and adjacent municipalities to ensure maintenance of waterways in an effort to maintain access to local inlets and waterways. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC40

Strategy St. James PI-1: Develop and implement a hazard awareness program (elevation certificates, FIRM data, bulletin on property protection measures and flood insurance, etc.) that is available through the County's website www.brunsco.net and also available through the St. James website www.townofstjamesnc.org (CRS 310/320/330/340/440).

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy St. James PI-2: Continue to educate town residents of potential effects of hurricanes and other natural disasters through the annual "Hurricane Awareness Symposium."

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the

County.

Status/Corresponding 2015 Strategy: BC1, BC5

Town of Sunset Beach

Strategy Sunset Beach 1: All future community/critical facilities developed by the Town of Sunset Beach will be located outside of the defined flood hazard area. This includes all facilities required to provide daily services to Town citizens and visitors.

Progress: Although, the Town has not developed any new critical facilities over the last five years, this strategy will continue to be maintained through this update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC16

Strategy Sunset Beach 2: Sunset Beach will work to make all community/ critical facilities disaster resistant. This effort will include the installation of storm shutters and floodproofing, where deemed necessary.

Progress: The Town received funding through an HMGP grant to install storm shutters on the Town's current municipal building. No other projects were completed, but the Town will continue to seek opportunities to improve the community's overall resiliency. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC16

Strategy Sunset Beach 3: The Sunset Beach Public Works Department will monitor the Town's municipal storm drainage facilities to ensure that the system is functioning properly. This effort may require maintenance to ensure that the system is not contributing to flooding issues during substantial rain events.

Progress: The Town has maintained a pro active approach to stormwater management over the last five years. These efforts have included enforcement of local regulations and NCDENR Coastal Stormwater rules. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Sunset Beach 4: The Sunset Beach Fire Department will inspect all fire hydrants within the Town's corporate limits on a revolving schedule. Through this effort, the Town will aim to inspect each

hydrant a minimum of two times per calender year.

Progress: Over the last five years, the Sunset Beach Fire Department has inspected all municipal fire hydrants on an annual basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC52

Strategy Sunset Beach 5: Sunset Beach will hold an internal coordination meeting annually during the month of May to address issues related to hurricane season. This meeting will focus on Town policies and procedures relating to preparation and response to tropical storm/hurricane/hurricane events. If deemed necessary, the public will be informed of changes to existing procedures resulting from this annual effort.

Progress: The Town has consistently maintained holding a coordination meeting in approximately May to ensure that appropriate policies and procedures are in place to address issues and potential problems associated with hurricane season. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 6: The Town of Sunset Beach police, fire, and public works departments will attend the annual Brunswick County Hurricane Symposium. The symposium addresses interagency coordination between the Brunswick County Emergency Management Department, all County municipalities, and regional utility companies (telephone, electric, and water/sewer facility operators)

Progress: The Town has actively participated in the Brunswick County Hurricane Symposium annually over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 7: Sunset Beach will maintain a pre-disaster debris management contract with a qualified provider. The Town will review and assess this contract every three years.

Progress: Over the last five years Sunset Beach has maintained a Qualified Post Disaster Debris Management Contractor. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC38

Strategy Sunset Beach 8: The Town will continue to operate and maintain backup generators at all community/critical facilities including the Sunset Beach Fire Department, the Sunset Beach Municipal Building, and the Town's public works facility.

Progress: The Town carries out routine maintenance on an annual basis through the Town's public works department. No new generators were acquired. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC51

Strategy Sunset Beach 9: The Sunset Beach Police and Fire Department will pre-plan for necessary staffing levels in preparation for post-disaster response situations. This effort will ensure that appropriate staff support is available in the event of a tropical storm/hurricane.

Progress: The Town of Sunset Beach has worked closely with Brunswick Emergency Services to ensure proper staffing levels and procedures to effectively deal post disaster response situations. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 10: The Town of Sunset Beach will consider sending the Town's floodplain management staff members to attend the FEMA Certified Floodplain Managers course.

Progress: The Town has not accomplished this strategy, but will aim to provide this educational opportunity to floodplain management staff through this update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy Sunset Beach 11: The Sunset Beach Police Department will continue to provide annual in-service training to officers including courses focused on: firearms, hazardous materials, blood-borne pathogens, ethics, dealing with juveniles, and domestic violence. Although all of these disciplines do not address natural hazards, continuing education assists the police department in dealing with a wide range of issues and situations.

Progress: This strategy has been deemed irrelevant to the Town's natural hazard mitigation program and therefore will be eliminated through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35

Strategy Sunset Beach 12: The Town of Sunset Beach Fire Department will continue to provide annual training to all firefighters on staff. This training will focus on improving upon response times and dealing with issues resulting from man-made and natural disaster situations.

Progress: The Town of Sunset Beach has provided training to all fire department staff regarding a range of functions focused on response and the minimization of damage relating to future events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35

Strategy Sunset Beach 13: The Town of Sunset Beach will provide funding for all staff members/departments to secure certifications and continuing education including building inspections, floodplain management, fire service training, police department training, and emergency management training.

Progress: Over the last five years, the Tow has provided funding for continuing education efforts addressing a range of issues. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2).

This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC35

Strategy Sunset Beach 14: The Town of Sunset Beach will review the Town's Flood Damage Prevention Ordinance annually to ensure that the document is consistent with the latest FEMA and NCEM standards.

Progress: The Town has not updated the local Flood Damage Prevention Ordinance over the last five years; however, an update will be carried out in conjunction with the adoption of updated flood maps. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9

Strategy Sunset Beach 15: The Town of Sunset Beach will continue to require elevation certificates for all development within the defined A, AE, and VE flood hazard areas.

Progress: The Town has required the provision of elevation certificates for all structures located within

the defined flood hazard area. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC9, BC14

Strategy Sunset Beach 16: The Town of Sunset Beach will conduct on-site fire inspections on all non-residential structures a minimum of once annually.

Progress: The Sunset Beach Fire Department has pro-actively inspected all non-residential structures over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Sunset Beach 17: The Town of Sunset Beach will continue to enforce the NC State Building Code.

Progress: The Town addresses this issue on an ongoing basis due to shoreline migration and erosion. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result
of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Sunset Beach 18: The Town will consider working with regional partners on the development and adoption of legislation that will enable the Town to enforce the wind-borne debris International Building Code standards throughout the Town's corporate limits (enabling the Town to secure a CRS rating lower than 8).

Progress: This strategy is being eliminated through this plan update due to the political viability of successfully carrying out this strategy.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Sunset Beach 19: The Town will establish funding to work through a comprehensive update of all land development ordinances.

Progress: Over the last five years, the Town has worked through a comprehensive update of all local land development regulations. These standards will continue to be reviewed on an annual basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental

coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Sunset Beach 20: Sunset Beach will continue to work closely with the Brunswick County Emergency Management Department on improving the County's multi-jurisdictional communications system in an effort to enhance interoperability. The Sunset Beach Fire Chief will attend bi-monthly meetings with the County Emergency Management Department to address this issue.

Progress: The Town of Sunset Beach has worked closely over the last five years with Brunswick County Emergency Services to improve upon regional communication systems. These efforts have resulted in the purchase of new radio technologies which will improve upon communication redundancy. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 21: The Town of Sunset Beach administration and Town Council will advocate the establishment of an 800 MHz communication system for the County, as well as all municipalities. Establishment of this system will make the County compatible with the latest communications technology and will alleviate many of the issues present in dealing with the existing system.

Progress: The County has acquired this system over the last five years, and has incorporated the Town of Sunset Beach into this communications framework. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC50

Strategy Sunset Beach 22: The Town of Sunset Beach will research the feasibility of establishing an internal communication system that operates independent of the existing County-wide infrastructure.

Progress: This strategy has been deemed unnecessary and therefore will be eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Sunset Beach 23: The Town of Sunset Beach will participate in scheduled conference calls with the County Emergency Operations Center as the imminent threat of severe weather approaches. The call will be scheduled by the County Emergency Management Department and all town departments should be represented.

Progress: The Town of Sunset Beach has carried out this strategy over the last five years through

participation in the Brunswick County Emergency Operations Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 24: The Town of Sunset Beach will maintain an internal early warning system to assist in notifying town residents of issues related to natural and man-made hazards. The maintenance of this system should involve an outreach effort to ensure that all residents have their telephone numbers registered in the notification system.

Progress: The Town of Sunset Beach has determined that implementation of a local system will be redundant to the County's Code Red emergency notification system; therefore, this strategy will be eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Sunset Beach 25: The Town will review and update hurricane re-entry and evacuation procedures on an annual basis.

Progress: The Town of Sunset Beach has pro-actively reviewed these policies over the last five years as a component of the County Emergency Operations Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 26: The Sunset Beach Town Council will maintain a staff level Public Information officer charged with disseminating information relating to threats associated with man-made and natural disasters. The Public Information Officer's role and duties are defined within the Town's Hurricane Operations Plan.

Progress: The Town has maintained a designated Public Information Officer charged with disseminating information regarding impending inclement weather and natural hazard events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 27: The Town of Sunset Beach will provide information relating to natural and man-made disaster situations through all available outlets including news media, the Town's website, and the Town's emergency notification system.

Progress: This strategy has been deemed irrelevant to the Town's Mitigation Program and will be eliminated through this update. This issue will be handled through functions carried out by the Brunswick County LEPC.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Sunset Beach 28: Sunset Beach will maintain a policy of patrolling portions of the Town under mandatory evacuation procedures as the threat of severe weather approaches. This effort will ensure that all residents and visitors within those areas are clearly aware of the evacuation order and will respond accordingly.

Progress: The Town of Sunset Beach has pro-actively carried out this strategy as a function of local emergency management procedures over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 29: The Town will work with local media outlets as well as the Brunswick County Emergency Management Department to promote the importance of hand-held NOAA weather radios. These radio systems provide efficient and prompt notice of approaching severe weather.

Progress: Through Town Hall and other local outreach mechanisms, the Town has promoted the importance an effectiveness of citizens acquiring and utilizing NOAAS weather radios over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 30: As stated previously, the Town of Sunset Beach will establish funding to work through a comprehensive update of all land development ordinances. This effort will include a review of local stormwater and sedimentation control regulations.

Progress: Over the last five years, the Town has worked through a comprehensive update of all local land development regulations. These standards will continue to be reviewed on an annual basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Sunset Beach 31: The Town of Sunset Beach will continue to require that all development

occurring along Main Street must be located within 150 feet of the property line abutting the right-of-way. This strategy is intended to protect the primary frontal dune structure running the extent of the Island.

Progress: The Town has maintained this ocean front setback requirement through both the local CAMA Land Use Plan and Zoning Regulations over the last five years. Enforcement of this standard will continue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Sunset Beach 32: In working through the revisions of the Town's land development ordinances, the Sunset Beach Planning Board and Town Council will consider increasing the amount of open space required for all subdivisions with ten or more subdivided lots.

Progress: Over the last five years, the Town has worked through a comprehensive update of all local land development regulations. These standards will continue to be reviewed on an annual basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Sunset Beach 33: The Town will continue to impose its impervious surface limits whereby a property owner must installed an on-site stormwater retention and/or detention facility if the total impervious surface area exceeds 30% of a given site. These systems must be designed to retain all runoff generated by the impervious coverage in excess of the stated 30%.

Progress: This strategy was incorporated into Land Development Regulation updates completed over the last five years. The Town will continue to enforce this standard through implementation of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Sunset Beach 34: The Town of Sunset Beach will continue to work with Brunswick County on the enforcement of their Stormwater Management Ordinance.

Progress: The Town has worked closely with the Brunswick County Planning and Public Works Department to pro-actively enforce County stormwater regulations. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination

and cooperation.

Status/Corresponding 2015 Strategy: BC6

Strategy Sunset Beach 35: The Town of Sunset Beach will continue to work with the NC Department of Environment and Natural Resources on the enforcement of the NC Statewide Stormwater Management Program.

Progress: The Town has worked closely with the NCDENR to pro-actively enforce State Coastal stormwater regulations. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC25

Strategy Sunset Beach 36: The Town of Sunset Beach will maintain a policy of supporting single-family residential development as a desired land use pattern. Residential density and the establishment of non-residential land uses will be significant issues discussed while working through the revision of the Town's land development ordinances.

Progress: The Town has clearly stated this policy in locally adopted land use planning documents. Through implementation of this plan, the Town will maintain the policy of promoting single-family residential development both on and off island. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Sunset Beach 37: The Town of Sunset Beach will assist property owners in applying for post-disaster mitigation funding for acquisition/relocation grant programs following a natural disaster.

Progress: The Town, over the last five years, has maintained a pro-active approach to addressing repetitive loss properties through funding provided through the HMGP program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC23

Strategy Sunset Beach 38: The Town of Sunset Beach will work closely with Brunswick County Emergency Management to maintain clear and accurate records regarding expenses related to post-disaster recovery and clean up. This effort will be focused on ensuring that the Town may recover expenses relating to the disaster situation.

Progress: The Town maintains a policy of establishing clear and accurate records regarding post disaster clean up. Although, this has not been required over the last five years, it is a mandatory practice to ensure proper reimbursement regarding storm clean up. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 39: Sunset Beach will seek out grant funding for the installation of storm shutters on the Town's fire department facility.

Progress: This strategy was completed in 2011, and will be eliminated through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through
updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3

Strategy Sunset Beach 40: Sunset Beach will seek grant funding for the acquisition of internal communication system equipment. This effort will work towards the goal of improving upon the Town's emergency response capabilities.

Progress: As stated earlier, the Town has determined that this system will be redundant to the improved County communication system; therefore, it will be eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Sunset Beach 41: Sunset Beach will seek grant funding to acquire equipment needed to provide comprehensive ocean rescue services.

Progress: The Town acquires ocean rescue equipment as necessary through annual budgetary considerations. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC3

Strategy Sunset Beach 42: The Town of Sunset Beach will update its website to include more comprehensive information relating to emergency response and mitigation. This information will cover a wide range of topics including: evacuation procedures, mitigation options, floodplain protection, emergency preparedness, and special needs registry efforts.

Progress: The Town has worked to improve its website consistently over the last five years. These efforts have included expanding upon information regarding Hazard Mitigation and Emergency Management.

The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC1, BC5

Strategy Sunset Beach 43: Sunset Beach will continue to provide information to citizens following a natural hazard event that outlines the policies regarding evacuation, re-entry, and recovery. This information will be updated annually as procedures change over time.

Progress: The Town of Sunset Beach reviews these policies annually as a component of the County's Emergency Operations Planning efforts. The Town reviews this issue annually, and updates are made as necessary. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 44: Sunset Beach will maintain information at the local library relating to floodplain protection and mitigation. This effort will be carried out as part of the Town's Community Rating System (CRS) program.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Sunset Beach 45: The Town will continue to mail out a Town newsletter quarterly. As an element of this newsletter, the Town will include information relating to emergency preparedness.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1, Table 6-5 (page 6-40)

Strategy Sunset Beach 46: The Town of Sunset Beach will continue to provide day-to-day counseling services to contractors and property owners regarding floodplain protection and mitigation practices. This effort will include site visits when deemed necessary.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

Strategy Sunset Beach 47: The Town of Sunset Beach will continue to maintain all publicly-owned streets in a manner that will provide efficient and safe ingress and egress for all citizens. Additionally, the Town will maintain a policy of accepting private streets for maintenance assuming those streets are developed to appropriate standards.

Progress: The Town of Sunset Beach Public Works Department has worked diligently over the last five years to carry out this strategy. These efforts will continue through this update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC21

Strategy Sunset Beach 48: The Town of Sunset Beach will incorporate language into the Town's ordinance requiring all new gated communities to provide clear and adequate access for emergency service vehicles.

Progress: This strategy was completed in conjunction with the Zoning Ordinance update referenced previously; therefore, it will be eliminated through this update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Sunset Beach 49: The Town of Sunset Beach will factor protection from natural hazards into discussions involving the update of the Town's land development ordinances. This effort is expected to be completed within the next two years.

Progress: Over the last five years, the Town has worked through a comprehensive update of all local land development regulations. These standards will continue to be reviewed on an annual basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental

coordination and cooperation.

Status/Corresponding 2015 Strategy: BC10

Strategy Sunset Beach 50: The Town will maintain a dialogue with regional electric service providers, as well as water and sewer service providers in an effort to better prepare for the impacts associated with natural hazard events.

Progress: The Town meets annually prior to Hurricane Season to effectively address this issue with regards to potential natural hazard events. This has been carried out over the last five years, and will continue through this update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6- 2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 52: The Town of Sunset Beach will adopt this HMP and work towards the implementation of all strategies. Additionally, the Town will maintain good standing with both the NFIP and CRS programs.

Progress: Through implementation of the Town's existing plan, this strategy has been effectively carried out.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Sunset Beach 53: The Town of Sunset Beach will factor all projects outlined in these strategies into annual budget discussions. Some of the equipment and facility improvements proposed in this plan may require local investment.

Progress: The Town of Sunset Beach considers all recommendation regarding capital expenditures outlined in this plan during annual budget deliberations. This has taken place through implementation of this plan over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC16

Strategy Sunset Beach 54: The Town of Sunset Beach will work closely with the Brunswick County Emergency Management Department to ensure that citizens and visitors have safe and efficient access to shelter facilities.

Progress: The Town has worked with and supported Brunswick County Emergency Management in addressing this issue over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Strategy Sunset Beach 55: The Town will inform citizens of shelter locations and policies through the following: posting on the Town's website, materials provided when receiving re-entry permits, the Town's quarterly newsletter, the Town's designated Public Information Officer.

Progress: The Town has worked with and supported Brunswick County Emergency Management in addressing this issue over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC5

Appendix E: Completed Mitigation Actions

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
SB1	Inspect all fire hydrants within the Town's corporate limits on a revolving schedule. Through this effort, the Town will aim to inspect each hydrant a minimum of two times per calendar year.	Fire	High	Sunset Beach Fire Department Brunswick County Emergency Services	General Funds, NCDPS	Deleted as part of the 2021 update	This is an ongoing maintenance activity for the Town and should be removed from future plan updates.
SB2	Maintain a pre-disaster debris management contract with a qualified provider. The Town will review and assess this contract every three years.	All	High	Sunset Beach Administration	General Funds	Completed	The Town has a debris management contractor in place. This action should be removed from future plan updates.
SB3	Conduct on-site fire inspections on all non- residential structures a minimum of once annually.	Fire	High	Sunset Beach Fire Department	General Funds	Deleted as part of the 2021 update	This is part of the day-to-day operating procedures of the Fire Department and, as such, is a capability. This action should be removed from future plan
SB4	Maintain a staff level Public Information Officer charged with disseminating information relating to threats associated with man-made and natural disasters. The Public Information Officer's role and duties are defined within the Town's Hurricane Operations Plan.	All	High	Sunset Beach Administration	General Funds	Completed	The Town has a Public Information Officer. This action should be removed from future plan updates.

Town of Varnamtown

Strategy Varnamtown P-1: Update Land Use Plan.

Progress: The Town did not update the Land Use Plan over the last five years. The Town will consider this effort through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC8

Strategy Varnamtown P-2: Ensure that mobile/manufactured homes are installed and secured properly.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. All manufactured homes are tied down in accordance with NC State Building Code. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6- 2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Varnamtown P-3: Continue to encourage NC State Building Code enforcement for wind restriction.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. All manufactured homes are tied down in accordance with NC State Building Code. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6- 2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC28

Strategy Varnamtown S-1: Support Brunswick County debris removal program to correct problem sites.

Progress: The Town has pro-actively supported Brunswick County efforts to address the issue of debris removal following natural hazard events. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC38

Strategy Varnamtown S-2: Support the dredging of waterways to improve function and water quality.

Progress: The Town has supported the efforts of the US Army Corps of Engineers to maintain clear and passable waterways through selective dredging efforts. The actions defined under this locally specific

strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-2). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: BC40

Strategy Varnamtown S-3: Support the Brunswick County Appearance Commission.

Progress: This strategy has been eliminated from the plan because this strategy is not considered a mitigation measure.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Varnamtown PI-1: Continue to provide flood maps for staff and public use.

Progress: The Town's Planning Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: BC1

NEW HANOVER COUNTY MITIGATION PROGRESS REPORT

The following provides a summary of progress achieved with regard to the strategies adopted through the 2010 New Hanover County Multi-Jurisdictional Hazard Mitigation Plan.

New Hanover County

Strategy 1: Maintain the County's Continuity of Government Plan (COOP) by ensuring that updates are completed by all county departments at least twice a year. In FY2004, the County received grant funding to develop a COOP for the 8 departments most critical to hazard response in the County government. In order for the County to be completely prepared, all departments must be included in the COOP, which also needs to be exercised.

Progress: The COOP was revised and updated to include all County departments in January 2005; the COOP was exercised in August 2005. A web-based system that allows county departments to update their plans on the web was developed in 2008. Department's COOP checklists are updated at least twice per year. In May 2012, these checklists were moved to the County's SharePoint site. Through this planning process, this strategy will now apply to all participating municipalities who request assistance from the County in establishing their own respective COOP (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC1

Strategy 2: Enhance the survivability of critical IT services by installing redundant capability ("hot site") at our remote operating site. Conduct a risk analysis of IT systems to include Business Continuity Planning, Facilities Management, Security and other Emergency Management Issues.

Progress: Funding was secured in the new building project to mitigate some of the risks that we had in the old computer room. We now have a data center that has fully redundant power including a backup generator with a 72 hour tank. This will allow us to operate the computer room during emergency events. In 2012, we also completed a project to create redundant paths for our fiber optic network which connects the main county facilities (Judicial Building, DSS, Health, and Government Center). This gives us fail over in case of a fiber break along one of the paths. In fiscal year 2007/2008, IT conducted meetings with County Departments to assess the criticality of applications and services hosted by the department. The result of these meetings was a budget plan for the next three years to address vulnerabilities to the County's most critical applications and services. Completion of the plans will be contingent on budgetary funding. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC2

Strategy 3: Install permanent generators to all five emergency shelters. Pursue funding for a permanent generator at the New Hanover County Senior Center. Currently, the 5 County school shelters have transfer switches, as does the Senior Center. However, the County has no facility with a permanently installed generator that can be activated as a shelter on short notice. The County's priority is to have permanently installed generators at all 5 school shelters, the senior center and the animal shelter.

Progress: Permanent generators have been installed at Johnson Pre-K Center, Noble Middle, Eaton Elementary, Codington Elementary, and Trask Middle Schools, completing the plan to install permanent generators at all five of NHC's emergency shelters. Permanent generators have been installed at the New Hanover County Animal Services Unit and the Cape Fear Museum.

Status/Corresponding 2015 Strategy: NHC3

Strategy 4: Install microwave links between the County radio system and the 911 system. The County has no communications redundancy. This project would install microwave links between the 911 center and the 2 communications towers that provide countywide coverage, and between the 2 communications towers.

Progress: This was completed prior to November 1, 2006.

Status/Corresponding 2015 Strategy: Completed

Strategy 5: Continue to promote rip current awareness within the county by partnering with various beach services and the National Weather Service. Emphasis should be placed on educating children, the local public and tourists. The County has 3 Atlantic beaches which frequently experience RIP currents. Public notification of rip current location in real time in the form of Public Service Announcements and signage at beach access points would increase awareness of the hazard.

Progress: New Hanover County was the test site for the east coast of the U.S. RIP Current Advisory

Strategies Team developed the initiatives, such as posters in all classrooms in the County, and signage at all 3 beaches. All initiatives completed prior to summer 2006. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC4

Strategy 6: Drainage project at Crosswinds Subdivision. Houses are being flooded & damaged from floodwaters during rain storms much smaller than major events. Streets are flooded preventing access by emergency and other vehicles. This project would enlarge & install pipe in the drainage outfall to allow larger storms to drain.

Progress: This has not been done. No funds have been identified.

Status/Corresponding 2015 Strategy: NHC5

Strategy 7: Buyout of house located in Crosswinds subdivision adjacent to drainage ponds. This house is not in a 100-year floodplain, and yet it has sustained repetitive losses from periodic flooding. Since it is not eligible for buyout under FEMA regulations, we would like to use other funds to acquire this property.

Progress: This has not been done. No funds have been identified.

Status/Corresponding 2015 Strategy: NHC12

Strategy 8: Retrofit/Elevation Projects for 5 Wastewater pumping stations (80, 81, 48, 92 & 35). All 5 of these pumping stations (#80, 81, 48, 92, and 35) are located in the 100 year floodplain and routinely flood during hurricane hazards such as flooding and storm surge. For each pump station, the top of the pump station wetwell, the valve box & the control panel slab will be raised above elevation of 12.5 msl.

Progress: Preparation of the next edition of the Authority Master Plan is on hold pending completion of the City and County Comprehensive Plans and the CAMA Plan Update. The next edition of the Authority Master Plan will address sea level rise relative to facilities. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC7, NHC12

Strategy 9: Beaver Management Program - The Beaver population of New Hanover County has been rapidly increasing. Detrimental impacts include damage to roads, drainage systems, landscape plantings & other property.

Progress: NHC has a current contract with the U.S. Department of Agriculture for beaver and beaver dam removal in New Hanover County drainage ways. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC8

Strategy 10: Update flood maps to accurately reflect changes in elevation and flood patterns due to natural or man-made forces. New Hanover County has experienced rapid development over the past 10 years, resulting in changes in the course of streams and coastal waters, altering the shape of the floodplain. Remapping and correcting flood maps on a regular basis will allow County officials to plan appropriate land uses for flood prone areas.

Progress: New Hanover County and its municipalities are currently in the preliminary comment period and anticipate adoption of new Special Flood Hazard Data soon after adoption of this plan. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC9

Strategy 11: Revise Stormwater Management Ordinance. The County passed a storm water management ordinance on September 30, 2000 in order to regulate storm water runoff. However, development prior to 9/30/2000 was not required to manage storm water. Additionally, no systematic method for storm water management exists. And, there is no mechanism for ensuring that storm water construction projects to mitigate the effects of storm water runoff are funded. A utility would provide county wide storm water management including retrofitting areas without any storm water collection system.

Progress: The revision of the ordinance has not been made yet and there is no status change on creating a Stormwater Utility. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC10

Strategy 12: Hire a consultant to identify critical facility structures for susceptibility to hazard damage & set a priority schedule for retrofitting. New Hanover County has completed a critical facilities inventory. A vulnerability assessment has been conducted on the entire system, including plants, pump stations, lines and manholes based on multiple scenarios of sea level rise and storm events. However, we need to have current information relative to an estimated cost for retrofitting each one.

Progress: New Hanover County, City of Wilmington and CFPUA received an allocation for technical assistance provided by FEMA and EPA in order to assess the area's water and sewer vulnerability to sea level rise and storm surges. A consultant was hired to conduct that analysis, a 2-day workshop was held with key staff to provide input into the vulnerability assessment and adaptation (mitigation) strategies and a final report along with inundation modeling data was delivered in March 2013. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC11, NHC12

Strategy 13: Retrofit the Government Center to wind and seismic standards. The County

Administrative Annex has been moved to a new building at 230 Government Center Drive. The building used to house a retail store and was converted to office space. However, the building does not meet current standards for wind and seismic hazards.

Progress: This project has not yet been budgeted. No funds have become available for which this project would be eligible. Priority should be changed to Low at this point.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 14: Complete open space plan that gives major consideration to hazard vulnerability for conservation and acquisition. New Hanover County's coastal waters & floodplains are some of the most sought after lands for development. These same lands provide valuable buffers between the water and residential development. Preserving these lands as open space would eliminate future development and potential catastrophic losses of private property.

Progress: The County adopted the Wilmington-New Hanover County Comprehensive Greenway Plan on March 11, 2013. This plan gives major consideration to hazard vulnerability for conservation and acquisition. The County is also working toward buying highly vulnerable properties and using those properties for open space. In 2012, the County received a sub-grant award from the Nature Conservancy to purchase a 10-acre tract of land on Smith Creek that is primarily within the 100-year floodplain and partially comprised of wetlands. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC18, NHC19, NHC20, NHC21

Strategy 15: Continue acquisition, elevation &/or retrofitting of hazard prone properties. Notify repetitive loss property owners to see if they are interested in participating in future programs. New Hanover County has 289 repetitive loss properties.

Progress: The County has sent notices to repetitive loss and severe repetitive loss property owners to educate them of the options available to them. Additional properties have not been acquired, elevated or retrofitted since adoption of the Hazard Mitigation Plan. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC12

Strategy 16: Develop & conduct a public awareness campaign emphasizing the economic benefits of participation in the CRS program.

Progress: Public information concerning the economic benefits of participation in the CRS has been created and is available on the County's website. This information is also included on a mailing sent to all residents who own property in the special flood hazard area in New Hanover County. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC13

Strategy 17: Develop & conduct a public awareness campaign regarding potential hazards of urban/wildfire interface.

Progress: New Hanover County Fire Services' public awareness campaign is ongoing. A video was developed and is shown on the County's cable TV station. New educational materials are continually being generated. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC14

Strategy 18: Ensure that standards for Firewise Communities/USA are routinely included in subdivision review process, i.e., addressed in local subdivision ordinance.

Progress: This is an ongoing process that is an important part of the Subdivision Review Process. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC15

Strategy 19: Flooding has led to septic failures in many areas. Specific areas where study is most necessary: Monterey Heights, Middle Sound, Murrayville Road (new school site), Castle Hayne, Masonboro Sound, and Hwy. 421 south of Echo Farms subdivision.

Progress: New Hanover County applied for and is currently approved to receive a loan from the NC Clean Water Revolving Fund Program in order to install sewer in the Marquis Hills and Heritage Park areas of the County. The County also plans to apply for grant funds to supplement this project. Construction is anticipated to begin within one year. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6- 3).

Status/Corresponding 2015 Strategy: NHC5, NHC10, NHC16

Strategy 20: Utilize NHC TV for public service announcements. Education program would advise residents of actions they can take to help prevent flooding in their neighborhoods or on their property. Showing a video on County Cable Channel would be a good mechanism for getting the word out.

Progress: NHC TV is utilized for many different purposes including educating the public about flooding and hazard mitigation. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC17

Strategy 21: Discourage high intensity uses and large structures from being constructed within the 100-year floodplain (1% annual chance floodplain), erosion prone areas, and other locations susceptible to hurricane and flooding hazards.

Progress: The New Hanover County Zoning Ordinance continues to not allow High Density development within the 100 year floodplain. Through the County's Exceptional Design Zoning District, development

of any kind is not allowed in the 100 year floodplain in this district. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC18, NHC21

Strategy 22: Following a storm event, take advantage of opportunities to acquire or purchase land located in storm hazard areas which are rendered unbuildable or have sustained substantial damage. The property should satisfy objectives including, but not limited to the conservation of open space and scenic areas and the provision of public water access.

Progress: The County continues to provide outreach to citizens following storm events to make them aware of pre and post disaster grant opportunities. There have not been any significant storm events this year that have rendered land unbuildable or that have caused substantial damage to structures. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC19

Strategy 23: Declare a moratorium on the acceptance of any request for rezoning in flood prone areas other than for rezoning to a less intense use.

Progress: The County continues to discourage high density development in the floodplain within the New Hanover County Zoning Ordinance. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: Eliminated

Strategy 24: Declare a moratorium on the permitting of any new construction, new utility hook-ups, or redevelopment construction that would increase the intensity of the land use existing in disaster prone areas.

Progress: The County continues to discourage high density development in the floodplain within the New Hanover County Zoning Ordinance. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: Eliminated

Strategy 25: Request that new assessments of hazard areas be performed periodically due to the changes to the floodplain, shoreline and inlets caused by natural and man-made forces.

Progress: New Hanover County has received preliminary data on updated Special Flood Hazard Areas, and will be working on a public outreach program throughout 2014 to introduce these new SFHA's. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC20

Strategy 26: Limit density to 2.5 units/acre or less in areas classified as conservation on the CAMA land use map (including areas in the 100 year, or 1% annual chance floodplain). Develop a program for density tradeoffs to encourage development outside the floodplain.

Progress: The County continues to discourage high density development in the floodplain within the New Hanover County Zoning Ordinance. Density is limited within the conservation land classification to 2.5 units/acre or less. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC21

Strategy 27: Maintain annual review process for New Hanover County Health Department's (NHCHD) Preparedness Plans to include the NHCHD Emergency Response, Community Containment, Mass Prophylaxis, Pandemic Influenza, Strategic National Stockpile and Local Receiving Site plans, the Response Plans Development Review policy and the Epidemiology (EPI) Team Policy.

Progress: NHCHD maintains a review process policy and reviews the Emergency Operations Plan and Annexes on an annual basis, other preparedness plans are reviewed annually. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC22

Strategy 28: Install upgraded generator in Health Department located at 2029 S. 17th St. Wilmington, NC 28401.

Progress: New Hanover County Property Management upgraded the Health Department's generator capacity in October 2009. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: Completed

Strategy 29: National Incident Management System (NIMS) training for County personnel which includes ICS 100, ICS 200, ICS 300, ICS 400, IS 700, and IS 800.

Progress: NIMS Training is required for County personnel. Based on the 2012 report, over 90% of required NIMS courses have been completed. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC23

Strategy 30: Sustain radio communications system through maintenance contracts and system upkeep. Enhance capabilities by upgrading current software to latest version and addition of integrated voice and data (IV&D) features.

Progress: The radio system has been sustained through regular maintenance contracts and software refreshes. Funding has not been allocated to upgrade to integrated voice and data (IV&D) features. Through this planning process, this strategy will now apply to all participating municipalities as well as

unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: NHC24

Strategy 31: Potential consideration to relocate Wrightsville Beach Elementary School from the barrier island where it is currently located to the mainland. Wrightsville Beach Elementary School is located on a barrier island off of the coast of New Hanover County, NC. The relocation of the school to the mainland would mitigate potential structural damage and may prevent (mitigate) loss of service resulting from hurricanes, flooding, tsunamis, and nor'easters. School was closed for 6 months following Hurricane Fran in 1996.

Progress: WBES is not under consideration for relocation at this time. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: Eliminated

Strategy 32: Potential consideration to relocate Carolina Beach Elementary School from the barrier island where it is currently located to the mainland. Carolina Beach Elementary School is located on a barrier island off of the coast of New Hanover County, NC. The relocation of the school to the mainland would mitigate potential structural damage and may prevent (mitigate) loss of service resulting from hurricanes, flooding, tsunamis, and nor'easters.

Progress: CBES is not under consideration for relocation at this time. Through this planning process, this strategy will now apply to all participating municipalities as well as unincorporated New Hanover County (see Table 6-3).

Status/Corresponding 2015 Strategy: Eliminated

Town of Carolina Beach

Strategy CB 1: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a Town-sponsored workshop.

Progress: The Planning and Development Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintains a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC25, NHC26

Strategy CB 2: Hold a Town-sponsored hazard mitigation seminar for the community residents, including information on preparedness for all hazards significant to Carolina Beach.

Progress: The Planning and Development Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintains a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC13, NHC14, NHC17, NHC25, NHC26, NHC28

Strategy CB 3: Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the Town hall and other community owned, public facilities in Town.

Progress: The Planning and Development Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The department also maintains a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC13, NHC25

Strategy CB 4: Manually disperse and have a website posting which provides information about the Town's Emergency Response and Re-Entry Plan and relevant emergency response actions the public can take. Also, ensure each Town department possesses a clear list of department responsibilities as outlined in the plan. Update department contacts as they change.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC26, NHC27, NHC28

Strategy CB 5: Manually disperse and have a website posting which provides information about the Town's Community Based Hazard Mitigation Plan and relevant mitigation measures the public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on the plan.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC26, NHC27, NHC28

Strategy CB 6:Update the Town of Carolina Beach Emergency Response & Re-Entry Plan on an annual basis. The Emergency Response & Re-Entry Plan should contain detailed information on responsible parties and contact information; this information should be updated as positions and contact information changes.

Progress: The Town reviews and updates the local emergency response procedures in conjunction with New Hanover County emergency management annually. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC27

Strategy CB 7: Maintain evacuation routes in the event of a hazardous event.

Progress: Evacuation routes are reviewed and updated annually as necessary through mandated County Emergency Operations Plan updates in collaboration with NCDPS. The County/Town will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC27, NHC29, NHC30

Strategy CB 8:The Town should publicize, on the Towns website, maps of evacuation routes which will facilitate the evacuation of Carolina Beach in case of a hazardous event.

Progress: All evacuation routes have been mapped by the New Hanover County GIS department and are reviewed and updated annually as needed. The County/Town will continue to address this issue through annual Emergency Operations Plan updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC30

Strategy CB 9: The Town should distribute via water bills and Town newsletters, maps of evacuation routes which will facilitate the evacuation of Carolina Beach in case of a hazardous event.

Progress: The Town has carried out this strategy annually over the last five years as a function of the

Town's CRS program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC26, NHC30

Strategy CB 10: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC3, NHC24, NHC32

Strategy CB 11: Purchase, as necessary, backup generators as determined by the results of Action 10.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC3, NHC32

Strategy CB 12: Install, as necessary, generator quick connects, as determined by the results of Action 10.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generator quick connects were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC3, NHC32

Strategy CB 13: Revise the CAMA Land Use Plan (1997, 8-35) strategy to consider a policy to prohibit redevelopment in high hazard areas.

Progress: This strategy was not carried out over the last five years; however, due to updated CAMA planning regulations, the Town will consider revision to the Land Use Plan through implementation of

this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC18, NHC21

Strategy CB 14: Revise the CAMA Land Use Plan (1997, 8-36) to include training for those persons in charge of the "building permit triage" to prevent the issuance of permits in areas where permits should not be issued.

Progress: This strategy was not carried out over the last five years; however, due to updated CAMA planning regulations, the Town will consider revision to the Land Use Plan through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC18, NHC21

Strategy CB 15: Continue to enforce the North Carolina State Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the North Carolina State Building Codes.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC6

Strategy CB 16: Monitor trees and branches in public areas at risk of breaking or falling in wind, ice, and snow storms. Prune or thin trees or branches when they would pose an immediate threat to property, utility lines or other significant structures or critical facilities in the Town.

Progress: The Town's Public Works department in conjunction with local utility providers has worked over the last five years to maintain clearance from power lines and critical facilities. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC33

Strategy CB 17: The Town will take a proactive approach in investigating dangerous damaged structures and should take prompt action in condemning damaged structures that have been abandoned.

Progress: The Town addresses this issue on an ongoing basis due to shoreline migration and erosion. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result

of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy CB 18: Purchase a complete GIS/GPS setup and provide training on said setup to all pertinent town personnel.

Progress: The Town has completed the acquisition and installation of a comprehensive town-wide GIS system. The Town will continue to work closely with the County to improve upon the functionality and effectiveness of this program.

Status/Corresponding 2015 Strategy: Completed

Strategy CB 19:Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the Towns capability to generate maps when needed.

Progress: The Town has completed the acquisition and installation of a comprehensive town-wide GIS system. The Town will continue to work closely with the County to improve upon the functionality and effectiveness of this program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC2

Strategy CB 20: Develop a database that identifies each property that has received damage due to hazards identified within this mitigation plan. The database should also include a tax identification number of the property, a description of the property damage, the value of the damage, and links to photographs of the damage.

Progress: The Town addresses this issue on an ongoing basis. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy CB 21: Revise the Zoning and Subdivision Ordinance to require the utilization of various pervious surfaces within the floodplain in order to reduce stormwater runoff. This should include utilizing the use of various pervious surfaces in parking lots in recreational areas near the floodplain.

Progress: The Town has not accomplished this strategy; however, the Town will consider changes to land development regulations that will assist with mitigation efforts. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in

the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC18, NHC21

Strategy CB 22: The Town should support the policy identified in the CAMA Land Use Plan (1 997, 8-3), "Development will be "discouraged" in locations where stormwater runoff related flooding exists, unless appropriate corrective improvements are to be completed as part of the project."

Progress: Over the last five years, Town staff have informed residents and developers of this issue; however, the CAMA Land Use Plan does not enable the Town to restrict development outside of defined Areas of Environmental Concern. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC18

Strategy CB 23: Protect/Enhance Shoreline Vegetation (Already required by CAMA in the estuarine area). The Town should revise its zoning and subdivision ordinance to incorporate shoreline vegetation protection buffers along the AEC's and Canals in order to protect the character and to help mitigate flooding.

Progress: This strategy has not been accomplished. The Town relies on CAMA as well as other NCDEQ regulations to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC18

Strategy CB 24: The Town will seek to elevate flood-prone structures. Specifically structures that are identified as repetitive losses in the area. It is understood that funding through FEMA under the HMGP and FMA programs are voluntary, as a result all elevations will be based on funding availability, political will, and private property initiative.

Progress: Over the last five years, Carolina Beach has elevated one single-family residential homes. The Town will continue to maintain a pro-active stance regarding structural mitigation. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy CB 25: Continue to prioritize beach nourishment as a means of mitigating coastal beach erosion.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 26: Develop a Beach Management Plan which will include annual monitoring of literal drift erosion, to address the long-term issue of beach erosion.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 27: Establish a Shoreline Protection Committee that will work closely with the Town Council to solicit funds for beach preservation projects, educate the public on beach preservation matters, oversee re-nourishment project development, monitor shoreline change and report any major issues to the Town Council.

Progress: Due to the rapidly involving funding and logistical issues related to shoreline management, this strategy is being eliminated from this update and will be handled on an annual basis through local Capital Improvements funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 28: Work with New Hanover County officials and surrounding communities to distribute materials about the County Water Shortage Response Plan.

Progress: The Town has not direct mailed notices to property owners regarding the Water Shortage Response Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC34

Strategy CB 29: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Carolina Beach Emergency Response Plan as it relates to the expectations of the Town's water supplier.

Progress: This effort was not completed over the last five years and has been deemed redundant to

water conservation measures adopted through ordinance in 2007; therefore, it will be eliminated. The actions
defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 30: The Town should continue their proactive approach to mitigation by connecting Rainwater Retention Drums to the down spouts of each gutter system on every municipal building within Carolina Beach.

Progress: This strategy has been eliminated due to a lack of funding and staffing for the installation and maintenance of these systems.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 31: Develop a tornado and waterspout warning system.

Progress: The Town has accomplished this strategy through the local fire department. Several staff members are currently trained in early detection. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC17, NHC24, NHC26, NHC30

Strategy CB 32: To improve road visibility, encourage the Department of Transportation to place new reflector tape or paint along road edges and in the dividing line. This should be done on all major roads through Town.

Progress: The Town continues to collaborate with the County and NCDOT to address this issue. Some progress has been made; however, it continues to be an issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the Regional Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC29

Strategy CB 33: In order to minimize injury from lightning strikes, shelters should be placed every five acres in all public open space areas. This recommendation should be incorporated into the zoning and subdivision ordinances.

Progress: This strategy has been eliminated from the plan. This decision was based on the fact that the recommended standard was deemed too costly, and ultimately proved to be an unrealistic recommendation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 34: The Zoning Ordinance should require that lightning detection devices be installed in public outdoor gathering areas such as school stadiums.

Progress: This strategy was eliminated by the MAC, because adoption of this standard would result in increased development cost that could potentially slow or limit growth throughout the Town's Planning Jurisdiction.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 35: Develop a policy to require proper waste disposal and recycling.

Progress: This strategy was eliminated due to the fact that this effort is established as a basic municipal service that is not deemed relevant to the Town's mitigation efforts.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 36: The Town shall work with other appropriate governmental bodies, namely New Hanover County and surrounding communities to provide for a continued pure supply of potable water.

Progress: The City of Wilmington has worked diligently over the last five years to ensure that there is a safe sanitary water supply for the Town. This effort has included collaboration with the Cape Fear Public Utility Authority. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC34

Strategy CB 37: The fire department has the responsibility to assure the Town's protection during fire events. Part of this responsibility is dependent upon the department's ability to maintain the materials and a knowledge base for addressing such an event. This responsibility must be supported by provision of adequate funding for the continuing education and materials necessary to maintain this preparedness.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC14, NHC15, NHC31

Strategy CB 38: Explore and seek access to all potential sources of information and communication regarding early fire detection.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC14, NHC31

Strategy CB 39: Evaluate and improve fire fighting procedures.

Progress: The Town's fire department works to improve fire event preparedness on a day-to-day basis. These efforts involve continued education, training exercises and outreach. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC31

Strategy CB 40: Ensure the fire hydrants are working properly.

Progress: The Town Public Works department works closely with the Town fire department to inspect all hydrants annually to ensure they are working properly. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC31

Strategy CB 41: The Town should develop a plan of action to maintain the materials and knowledge base for addressing a HAZMAT spill, or develop preliminary measures to assist the county until the representatives arrive.

Progress: The Town has worked closely with the New Hanover County LEPC to address hazards associated with hazardous materials, HAZMAT, and/or dangerous spills. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC35

Strategy CB 42: The Town may consider supporting offshore drilling for gas and oil based on justifiable need and economic conditions. Other policies promoting renewable energy would be preferred. The Town does not support or permit oil refineries, storage facilities, or staging areas in the town.*

Progress: This strategy has been eliminated from the plan, because this was not deemed an appropriate avenue to address this sensitive environmental issue.

Status/Corresponding 2015 Strategy: Eliminated

Strategy CB 43: The Town should develop a plan of action to maintain the materials and knowledge base for addressing a nuclear event, or develop preliminary measures to assist the county until the representatives arrive to maintain nuclear event preparedness.

Progress: The Town's police and fire departments have worked over the last five years with the County Local Emergency Planning Committee to address the issue of nuclear event preparedness. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC35

Town of Kure Beach

Strategy KB 1: Relocate the Riggins condominium complex, consisting of four residential properties, away from identified flood hazard area.

Progress: This project was never completed due to a lack of interest by property owners. The Town will maintain a general policy of carrying out structural mitigation projects moving forward. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy KB 2: Enhance public education and awareness strategies for disaster preparedness and prevention through hosting public meetings/workshops with guest speakers, in addition to providing additional literature on natural hazards and mitigation techniques.

Progress: The Town has not carried out education and awareness programs. Over the last five years, the Town has relied on New Hanover County emergency management for this function. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC4, NHC13, NHC14, NHC17, NHC26

Strategy KB 3: Enhance GIS capabilities for the Kure Beach Public Works Department through the addition of hazards specific spatial data to existing databases.

Progress: The Town has worked in conjunction with New Hanover County over the last five years to

expand upon the Town's GIS system and spatial data resources. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC2

Strategy KB 4: Increase wildfire risk awareness and seek recognition through "Firewise Communities USA," in addition to developing strategies to buffer structures located on the urban wildland interface by cooperation with New Hanover County and the federal government.

Progress: The Town has not taken steps to be recognized as a "Firewise Community;" however, the Town does work annually with the NC Department of Forest Services to provide education and outreach to local residents. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC14, NHC15

Strategy KB 5: Design, build and maintain a managed stormwater system that is compliant with EPA's Stormwater Phase II requirements to minimize increased stormwater flooding due to increased construction.

Progress: This strategy has not been completed due to the exorbitant expense of designing and building a new system; and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy KB 6: Continue to upgrade building codes and safety standards in cooperation with New Hanover County. Continue to upgrade and modify the Kure Beach building code to enhance the ability of structures to withstand storms.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. It should be noted that no locally specific standards were adopted. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This
change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC6

Strategy KB 7: Pursue elevation projects for any identified repetitive loss properties where the homeowner has expressed interest in such a project.

Progress: No elevation projects were funded or treated over the last five years; however, as previously stated, the Town will maintain a pro-active approach towards structural elevation for repetitively

damage residential structures. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6- 3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

City of Wilmington

Strategy ILM 1: IT Disaster Recovery / Business Continuity Planning Critically review the City's IT Systems, Infrastructure and Policies and develop a DR/BC Plan. Funds for this have been included in our requested budget and we have made some initial contacts to be included in a pilot program provided by the Institute of Governments Center For Public Technology.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 2: Pursue overall upgrade to IT system redundancy improvements to the network infrastructure, including: (1) improved switching equipment and related components; (2) a strategically expanded network to provide multiple routing alternatives through looping and expanding our fiber optics system; and (3) the implementation of a dedicated generator back-up.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated Countywide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 3: Implement program and system to transfer financial systems data to a hosted disaster recovery service.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated Countywide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 4: Replacement of all major City radios to the upgraded Motorola digital radio network.

Progress: This strategy has been completed since the last Plan update in 2011; however, the City will continue to maintain and upgrade the system as needed. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC24

Strategy ILM 5: Prepare and maintain a current list of all City employees by job classification with contact information to facilitate calling in resources for emergency response.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated Countywide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Eliminated

Strategy ILM 6: Provide special vehicle placards for City employees designated to respond in emergency situations to restricted areas or during periods of curfews.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated Countywide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Eliminated

Strategy ILM 7: Post information on the City's web page and Intranet to assist citizens in preparing for emergency situations.

Progress: This strategy has been completed since the last Plan update in 2011. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC28, NHC30, NHC38

Strategy ILM 8: Develop and maintain internal policies and procedures to support City employees in responding to emergency situations. Policies and procedures will include, but will not be limited to an Inclement Weather Policy.

Progress: This strategy has been completed since the last Plan update in 2011. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC36

Strategy ILM 9: Training for City personnel through FEMA's Emergency Management Institute (EMI) including ICS 100, ICS 200, ICS 300, ICS 400, ICS 400, IS 700, and IS 800

Progress: This strategy has been completed since the last Plan update in 2011. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC37

Strategy ILM 10: As part of the City of Wilmington Operation Center Project, the City of Wilmington is constructing all buildings with backup generators. Two of the buildings will be constructed to earthquake standards to protect the City of Wilmington's Traffic Control Center and the Operations Emergency Operations Center (EOC) for the field operation groups. This purchase of the property was chosen with connection to major thoroughfares so response vehicles could deploy easier during an emergency event. Presently responding divisions are in residential areas with numerous trees.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 11: Complete Walnut Street Wastewater Pump Station Improvements Project, which includes the addition of a fourth pump and a new in-stream waste grinder. Floodproofing and structural upgrades to the existing superstructure, replacement of the existing motor control center, HVAC upgrades, and replacement of pump isolation valves will also be included.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 12: Partner with the County to develop public information campaign utilizing external communications vehicles such as GTV-8 and NHCTV, city and county web sites and TV/Radio public service announcements. Campaign would address ongoing mitigation efforts, as well as ways to prepare for hurricane season.

Progress: This strategy has been completed since the last Plan update in 2011. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC17, NHC28, NHC30

Strategy ILM 13: Partner with the County to incorporate hazard mitigation educational materials in existing communication vehicles such as city newsletter, city/county water bills, city/county Web sites, bills and speaking engagements.

Progress: This strategy has been completed since the last Plan update in 2011. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC38

Strategy ILM 14: Seagate Drainage Project - flooding mitigation of major NCDOT thoroughfare and volunteer fire station.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 15: Engineering Feasibility Study for New Center Drive - flooding mitigation of major NCDOT thoroughfare and City pump station.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 16: Market Northwoods Drainage Project - flooding mitigation of properties along major NCDOT thoroughfare.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 17: Hinton Ave/Michelle Dr Drainage Project - flooding mitigation in residential area.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 18: Cedar Ave & Sweetwater Outfall Drainage Project - flooding mitigation of NCDOT major thoroughfare through commercial area.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 19: Heidi Drive Drainage Project – flooding mitigation in single family neighborhood.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 20: Market Street/Inland Greens Drainage Project - First phase of project to mitigate flooding mitigation in single family neighborhood and along Cardinal Drive.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 21: Plaza East Drainage Project - flooding mitigation of major drainage outfall through commercial area.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 22: Lincoln Outfall Project – Stream bank stabilization project in single-family neighborhood.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 23: Doctors Branch bank Stabilization Project. – Stream restoration and bank stabilization project in single-family and multi-family neighborhood.

Progress: The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC5, NHC10

Strategy ILM 24: Longstreet Canal Drainage Project - Flooding mitigation and erosion stabilization of major drainage outfall through residential area.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 25: Dupree Dr Drainage Project - flooding mitigation through residential area because of lack of drainage system.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 26: Cavalier Drive Drainage Project – flooding mitigation in single-family neighborhood.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 27: Wisteria/Clearbrook Drainage Project – flooding mitigation in single-family neighborhood.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 28: Burnt Mill Tidegate Project – Restoration and rehabilitation of tidegate structure and repair of breached area around tidegate that reduces flooding in Burnt Mill Creek area.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 29: Mineral Springs 02-03 Project – flooding mitigation in commercial area.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 30: Benda Drive Drainage Project – flooding mitigation in single-family neighborhood.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 31: Cardinal/George Trask Project – flooding mitigation in single-family neighborhood.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Strategy ILM 32: Hunters Trail Culvert Replacement Project – flooding mitigation in single-family and multi-family neighborhood.

Progress: This strategy has been completed since the last Plan update in 2011; therefore it will be eliminated from the updated County-wide and City of Wilmington strategy tables.

Status/Corresponding 2015 Strategy: Completed

Town of Wrightsville Beach

Strategy WB 1: Support the New Hanover County Emergency Operations Plan, adopted January 2003.

Progress: The Town of Wrightsville Beach has participated in the annual implementation of the New Hanover County EOP over the last five years, including all annexes such as the Tsunami Ready Plan currently in place for the County and the provision of E-911 services. This effort has included participation in exercises and collaboration regarding annual updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC27

Strategy WB 2: Support the Tsunami Ready Plan for New Hanover County, adopted 2008.

Progress: The Town of Wrightsville Beach has participated in the annual implementation of the New Hanover County EOP over the last five years, including all annexes such as the Tsunami Ready Plan currently in place for the County and the provision of E-911 services. This effort has included participation in exercises and collaboration regarding annual updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC18, NHC27

Strategy WB 3: Maintain a post disaster recovery contract with a qualified service provider, to include the provision of essential services and equipment (i.e., generators).

Progress: Wrightsville Beach has maintained a contract with a Qualified Post-Disaster Debris Contractor over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC3, NHC27

Strategy WB 4: Request funding for an Emergency Operations Center, to be located off the island in an

effort to serve the town during extreme weather events.

Progress: This strategy has been deemed impractical and too costly, and will therefore be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy WB 5: Monitor the status of backup generators, communications, and vehicles for all critical public facilities. Test generators, communications equipment, and vehicles on a regular basis, not only for maintenance, but to confirm that the equipment continues to match the needs of critical facility expansion or updated operations.

Progress: The Town carries out routine maintenance on an annual basis through the Town's Public Works department. No new generators were acquired during the implementation period. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC3, NHC11

Strategy WB 6: Continue to invest in equipment that will ensure uninterrupted communications, to include continued support of the Town's exiting satellite telephone system.

Progress: No new communications equipment has been purchased by the Town over the last five years; however, the Town has completed construction of the Town's new public safety center which provides improved emergency services to town residents and visitors. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC24

Strategy WB 7: Continue to support the efforts of the New Hanover County Emergency Management Department's role in providing Emergency 911 services to the Town. The Town will maintain its internal emergency response communications system as a backup in the event that it is needed.

Progress: The Town of Wrightsville Beach has participated in the annual implementation of the New Hanover County EOP over the last five years, including all annexes such as the Tsunami Ready Plan currently in place for the County and the provision of E-911 services. This effort has included participation in exercises and collaboration regarding annual updates. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC24

Strategy WB 8: Seek grant funding for the acquisition and installation of a new repeater system for the Police Department communications system.

Progress: This strategy was completed in conjunction with development of the new public safety center, and will therefore be eliminated from this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy WB 9: Support storm hazard mitigation policies provided in the 2006 Wrightsville Beach CAMA Land Use Plan.

Progress: This strategy has been carried out through planning and zoning efforts over the last five years. No updates have been made to the Town's CAMA Land Use Plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC18, NHC21

Strategy WB 10: Continue to enforce the International Building Code, to include requiring that new structures or structures undergoing significant renovation (renovations or expansion exceeding 50% of fair market value) meet code requirements for coastal areas.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC6

Strategy WB 11: Continue to require the provision of an elevation certificate for all development within a Special Flood Hazard Area (SFHA). All elevation certificates will be submitted on an official FEMA Elevation Certificate form.

Progress: The Town has continued, over the last five years, requiring an elevation certificate for all properties located in the flood hazard area. This action is carried out as a function of the Town's Community Rating System program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC6, NHC13

Strategy WB 12: Monitor repetitive loss areas as indicated on Map 7. When necessary, the Town will assist repetitive loss property owners with securing assistance to address either elevation or acquisition of their floodprone property.

Progress: The Town pro-actively seeks out funding for the elevation of repetitive loss structures. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy WB 13: Continue to support the efforts of the NC Office of Dam Safety (NCODS) in their efforts to inspect and maintain structurally sound levee and dam facilities throughout the State.

Progress: The Town has continued, over the last five years, to support the NC Office of Dam Safety's efforts. This action is carried out as a function of the Town's CRS program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: Table 6-5 (page 6-40)

Strategy WB 14: Require the Town Public Works Department to routinely monitor and prune trees and branches on public property, and within the right-of-way to minimize potential damage in the event of a wind or ice storm. Additionally, support the efforts of Progress Energy to keep all utility easements free from encroaching trees and limbs.

Progress: This strategy is considered a day-to-day function of the Public Works department. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC33

Strategy WB 15: Continue to maintain all properties acquired through HMGP funding or other sources aimed at addressing natural hazard mitigation as open space in perpetuity.

Progress: The Town has maintained this policy over the last five years and will continue to do so regarding all properties acquired through HMGP programs. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC19

Strategy WB 16: Continue to require fire suppression sprinkler systems within all substantially modified or new commercial development and residential construction exceeding two units (three or more). Encourage installation in single-family and duplex residences.

Progress: This strategy is carried out through enforcement of the NC State Building Code. These

standards have been imposed over the last five years and will continue through this update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC6

Strategy WB 17: Consider increasing the size of water lines and water mains on the south end of the island. This action is desired to address fire flow demands that continue to increase as new residential structure sizes expand in square footage.

Progress: This strategy will not be implemented due to the exorbitant cost associated with this project.

Status/Corresponding 2015 Strategy: Eliminated

Strategy WB 18: Continue to maintain the facilities and support the efforts of the Wilmington Municipal Fire Department to provide maritime fire protection services within Wrightsville Beach.

Progress: The Town has been diligent in carrying out this strategy through development of the Wrightsville Beach Public Safety Center. This facility was completed over the last planning period, and will assist in fire protection moving forward. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC31

Strategy WB 19: Improve Community Rating System (CRS) status.

Progress: The Town's CRS status has not improved over the last five years; however, the Town hopes to improve the rating through recently established guidelines regarding the CRS program. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC25, NHC31, Table 6-5 (page 6-40)

Strategy WB 20: Consider working with regional partners on the development and adoption of legislation that will enable the Town to enforce the wind-borne debris International Building Code standards throughout the Town's corporate limits (enabling the town to secure a CRS rating of 5).

Progress: This strategy has been deemed too difficult to achieve from a political standpoint and will therefore be eliminated from this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy WB 21: Work to maintain the Town's status as a Cooperating Technical Partner under the terms of the NFIP Community Rating System (CRS).

Progress: The Town has maintained this status through participation in the CRS program over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC9, NHC12, NHC13, NHC18

Strategy WB 22: Monitor the Town's water supply to determine if aquifers are threatened or if other alternatives are required.

Progress: The Town has carried out this strategy through local and regional water supply protection measures. Through implementation of the Town' sWater Supply Shortage Plan, these efforts will continue but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC34

Strategy WB 23: Continue to seek funding sources for the elevation or retrofitting of existing sewer lift stations in an effort to reduce or eliminate the impacts from flooding. The lift stations and the need/priority for elevation are outlined on Map 8.

Progress: No sewer infrastructure components have been treated over the last five years; however, the need still exists and the Town will monitor the situation through this update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC7

Strategy WB 24: Update the Town's Flood Damage Prevention Ordinance in conjunction with the development of a Unified Development Ordinance (UDO).

Progress: The Town did not update the FDPO in conjunction with development of the UDO, but did update the Ordinance in conjunction with the FIRM map update process. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC9, NHC18

Strategy WB 25: Request Hazard Mitigation Assistance (HMA) funding for elevation/floodproofing of

repetitive loss properties.

Progress: The Town has maintained this policy over the last five years and will continue to do so regarding all properties acquired through HMGP programs. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy WB 26: Request Hazard Mitigation Assistance (HMA) funding for the elevation of structures substantially damaged during a natural hazard event.

Progress: The Town has maintained this policy over the last five years and will continue to do so regarding all properties acquired through HMGP programs. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy WB 27: Request Hazard Mitigation Assistance (HMA) funding for wind proofing of critical facilities.

Progress: The Town has maintained this policy over the last five years and will continue to do so regarding all properties acquired through HMGP programs. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC12

Strategy WB 28: Continue to provide technical information to builders, developers, & architects in an effort to familiarize them with NFIP land use and building standards and principles for quality redevelopment and safe housing development through written materials or a Town-sponsored workshop.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: NHC25

Strategy WB 29: Advertise the availability of flood insurance once annually through direct mailings, coordination with local real estate agents, and on the Town's website.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: NHC13, NHC17, NHC25

Strategy WB 30: Distribute a flood protection flyer through a community newsletter, utility bill, or other document that is distributed to all residences once annually. The flyer will include the following information: flood safety, flood insurance, property protection, floodplain development requirements, and drainage system maintenance. This information will also be made available at the Town's municipal building.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: NHC13, NHC17, NHC25

Strategy WB 31: Provide information to all individuals inquiring about issues relating to floodplain development. This effort will involve educating citizens about the development constraints and requirements regarding development within a Special Flood Hazard Area (SFHA). This service will be advertised on the Town's website, and once annually in the local newspaper.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: NHC13, NHC17, NHC25

Strategy WB 32: Ensure that the local New Hanover County Public Library maintains documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains. Many documents are free of charge from FEMA. The Town will maintain a disclosure statement from the library that these material are available, and have been incorporated into the library's resource inventory system.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: NHC13, NHC25

Strategy WB 33: Provide local real estate agents with handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing. Additionally, the town will secure disclosure statements from all real estate agencies participating in this effort stating that it is the organization's policy to inform clients about issues relating to developing and/or purchasing property within the floodplain.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These

services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in

collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: NHC13, NHC25

Strategy WB 34: Maintain current and accurate information at the municipal building, as well as on the Town's website, regarding the following: mitigation activities, the availability of NFIP flood insurance, emergency operations policies, and evacuation and reentry information.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: NHC13, NHC26, NHC27, NHC28

Strategy WB 35: Continue to maintain accurate and updated Flood Insurance Rate Map (FIRM) information on a Geographic Information System (GIS). This system will be utilized for day-to-day floodplain management activities.

Progress: The Town has maintained flood insurance rate information on the Town's website, as well as through the State of NC website (http://www.ncfloodmaps.com/) over the last five years. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC2, NHC9

Strategy WB 36: Continue to implement the activities outlined within the standing NPDES Permit issued through the North Carolina Department of Environment and Natural Resources. These efforts provide a comprehensive approach to stormwater management planning.

Progress: The Town has continued to carry out activities outlined within the Town's NPDES Stormwater

Permit over the last five years. This effort has included strict enforcement of the Town's Stormwater Management Ordinance. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC5

Strategy WB 37: Continue to enforce the Town's Stormwater Management Ordinance. This ordinance enforces standards relating to post development runoff conditions, as well as protection of the Town's MS4 against illicit discharges and dumping.

Progress: The Town has continued to carry out activities outlined within the Town's NPDES Stormwater Permit over the last five years. This effort has included strict enforcement of the Town's Stormwater Management Ordinance. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-3). This change is a result of collaborative efforts focused on developing an effective Regional Plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: NHC10

PENDER COUNTY MITIGATION PROGRESS REPORT

The following provides a summary of progress achieved with regard to the strategies adopted through the 2010 Pender County Multi-Jurisdictional Hazard Mitigation Plan.

Onslow County

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
PREVENTION							
P1	GIS staff will maintain a map and listing of streets that will be used for evacuation in the event of a hurricane.	Flood, Hurricane	High	GIS, Emergency Management, Police	General Funds, NCDPS	Completed	COMPLETED: County participated in the NCEM Know Your Zone Initiative. Evacuation Zones have been created and new evacuation maps will be published after the official launch.
P3	Monitor all development sites to ensure storm water controls are in place and are maintained. Based on storm water permits.	Flood	Low	Planning Department, State	General Funds	Deleted	DELETED: Onslow County works with State DEQ, as the issuing authority, to address concerns and issues. This action will be removed from future plan updates.
P6	Apply for Community Rating System (CRS) classification and pursue CRS credit points for having this multi-hazard plan in place.	Flood	High	Planning Dept.	General Funds	Completed	COMPLETED: Awarded CRS Rating 7 in late 2015. Will continue working to maintain or improve the rating.
P8	Onslow County will encourage projects undertaken by the County's Sheriffs, Emergency Services Director, Fire-Rescue- EMS, Planning, Inspections, and Parks and Recreation Departments that will lessen the vulnerability of the County and its residents to natural hazards.	All	Medium	Administration, Planning Department, Emergency Services, Sheriff's Office, Parks and Recreation	General Funds	2020	COMPLETED: Initial Threat Hazard and Identification Risk Assessment were conducted in 2020.
P9	Maintain database of sinkhole incidences throughout the County to include location, type, and approximate size. Update mapping as needed. Monitor to ensure critical facilities are not constructed in a high hazard area.	Subsidence	Medium	Planning Department, Emergency Management	General Funds	Completed	COMPLETED: Sinkhole report data is stored in both Planning databases and WebEOC databases. Updated with new occurrences.
PROPERTY PROTECTION							

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
PP1	The Onslow County Geographic Information System's staff will use flood plain, parcel, and aerial data to map specific flood plain areas. This will allow for future hazard mitigation community outreach by educating all citizens on the dangers of living in the flood plain.	Flood	High	GIS, Planning Department	General Funds, Grants	Deleted	DELETED: Capability is maintained through GIS and the Planning Department. Both Preliminary and Effective FIRMS are available to the citizens. Both preliminary (new) and effective flood plain maps are maintained on the GIS server and are available to both County agencies and citizens.
PP3	Encourage surveyors, engineers, and land planners to become familiar with the NFIP land use and building standards by distributing copies of the NFIP land use and building standards from the County's inspections department when applicants apply for permits	Flood	Medium	Planning Dept.	General Funds	Deleted	DELETED: Onslow County now participates in the CRS Program and distribution of NFIP materials are ap art of the education program. Capability is maintained through planning, permitting, and inspections.
NATURAL RESOURCE PROTECTION							
NR1	Onslow County shall encourage the long-term management and wise use of its natural resources including, particularly, ocean and estuarine area resources, surface wetland and floodplain ecosystems, and other important natural areas.	All	Medium	Planning Dept.	General Funds	Deleted	DELETED: Capability is maintained through the Planning Department policies and plans.
NR2	Onslow County encourages the prevention of premature conversion of large areas of productive agricultural land to development and to protect valuable environmental areas from destruction	All	Medium	Planning Dept.	General Funds	Deleted	DELETED: Capability maintained by the Planning Department through policies and plans.
EMERGENCY SERVICES							
ES5	Build out of new county wide interoperable P25 800MHz radio system that will include all agencies. System will provide for full interoperability between	All	High	Emergency Services	General Funds, Grants	Completed	COMPLETED: System has gone live and is under maintenance contracts.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
	all agencies during disaster and emergency response.						
S3	The County will maintain a computer database of all mitigated structures through county-sponsored projects.	ALL	Medium	Planning Dept.	Local	Deleted	DELETED: Capability is maintained by marking all properties with deed restrictions. GIS will maintain a layer identifying all mitigated properties.
PUBLIC INFORMATION							
PI3	Ensure that the Onslow County website maintains updated documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains.	Flood	Low	Planning Department, Emergency Management	General Funds	Deleted	DELETED: Capability is maintained as a part of the CRS public education section.
PI4	Educate local real estate agents about the Onslow County website's NFIP and flood hazard information that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Low	Planning Department	General Funds	Completed	COMPLETED: Meet annually with local Board of Realtors about zoning, flood issues, and Florence outreach with FEMA
PI7	Provide material on the Onslow County website regarding the hazards of thunderstorms, lightning, and hailstorms. This should include danger signs, what kind of disaster supplies would be needed, and ways to help prevent loss of life and/or property.	Severe Thunder-storm	Low	Emergency Mgmt.	General Funds, Grants	Completed	COMPLETED: Updated hazard information and risk assessment were completed for the 2021 Hazard Mitigation Plan. All information has been made available on the County website under the hazard mitigation section.
PI9	Provide material at the Inspections Department on how to select a qualified contractor and what recourse people have if they are dissatisfied with a contractor's performance.	All	Low	Planning Dept.	General Funds	Deleted	DELETED: Capability is maintained by Planning Department.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2026)
PI10	Have the County Fire Marshal, or designee, speak at area schools and civic groups regarding the risk of wildfires in Onslow County, and what they as citizens can do to help prevent them.	Wildfire	Low	Emergency Services	General Funds, Grants	Deleted	DELETED: Capability is maintained as a function of the Fire Marshal job responsibilities.

Holly Ridge

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
				PREVENTION			
P1	The Town will develop an evacuation strategy for hazardous material response. This will be applied Town-wide.	Flood, Hurricane	High	Fire Department, Police Department	Local Staff Time and Labor	2020-2021	Completed. Strategies and procedures are outlined in the Holly Ridge Disaster Response Plan previously updated 8/31/2017. Annual updates are to be made and implemented.
P2	Holly Ridge will encourage projects undertaken by the Holly Ridge Police Department & Holly Ridge Fire Department that will lessen the vulnerability of the Town and its residents to natural hazards.	All	Medium	Town Manager, Fire Department, Police Department	Local Staff Time and Labor	2020	Completed. Hazard Mitigation Plan adopted 20___ Signed MOU with all county law enforcement agencies for mutual aid response. Signed MOU with all county law enforcement agencies for mutual aid response. Continued training implemented by Police and Fire.
P3	Limit the amount of impervious surface for each lot to minimize storm water runoff in accordance with the Town of Holly Ridge Town Code and CAMA Regulations.	Flood, Hurricane	High	Code Enforcement, Planning	Local, Grants	2020-2022	Completed. Stormwater regulations provided under State requirements. Engineered plans and State permits required prior to approval of land disturbing activities. Local permitting and ordinance to be established. This is New.
P5	Retrofit critical facilities and county owned facilities for improved resilience to all hazards with the use new technology. This could include but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, anchoring fixed building equipment.	All	Medium	Buildings and Inspections, Planning Dept., Emergency Services, Maintenance	Local, State Grants, UHMA Grants, other federal grants	2020-2021	Completed. Permanent backup generator installed for Town Hall and the Police Department. Continued analysis of any additional critical facilities to take place. This is New.
PP1	Perform annual assessment town wide of ditches to ensure proper grading. Coordinate with NCDOT for repairs to ensure proper drainage. A complete list of all ditching and possible problem areas will be included in the Street Plan	Flood, Hurricane	High	Maintenance Department	Local Staff Time and Labor	2020-2021	Completed. List of areas generated through maintenance which is updated annually to identify additional problems. All areas are annually maintained with the currently recognized problem areas cleared twice a year.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	and updated annually to help prevent flooding.						
PP4	Require structures damaged by more than 50% be rebuilt in compliance with current standards.	Flood, Hurricane	High	Code Enforcement, Planning	Local Staff Time and Labor	2020	Completed. Section 7-6-4 of Holly Ridge Ordinance and State Building Codes requires structures damaged more than 50% to be rebuilt in compliance with current standards.
PP5	Require a 2-foot freeboard for all new construction in accordance with current standards.	Flood, Hurricane	High	Code Enforcement, Planning	Local Staff Time and Labor	2020-2021	Completed. Holly Ridge Flood Damage Prevention Ordinance adopted 8/31/17 requires 2-foot freeboard. Updated ordinance, as required by State, to be adopted June 2020.
PP6	Enforce a 40 foot height maximum for new structures in accordance with the current standards	Hurricane	Medium	Code Enforcement, Planning	Local Staff Time and Labor	2020-2021	Completed. Holly Ridge Town Ordinance Section 7-3 requires height of structures maxed at 40'. Verification from surveyor required prior to CO.
PP7	Enforce the VE Zone Construction standards in accordance with the Town of Holly Ridge Flood Ordinance.	Flood, Hurricane	High	Code Enforcement, Building Inspections	Local Staff Time and Labor	2020-2021	Completed. Holly Ridge Ordinance requires elevation certificates be provided prior to CO being issued. Potential engineer certifications may be required based upon project.
PP8	Install backup generators with automatic transfer switches and/or transfer switches for mobile generators on all critical facilities and critical utilities.	All	medium	Emergency Services, Facilities Maintenance	UHMA, Local Staff Time and Labor	2020-2021	Completed. Backup generator with transfer switch installed at Town Hall and Police Department. Inspection completed by cert. inspector twice annually, with monthly local inspection
ES1	Maintain backup generators to supply electricity to critical Town facilities during periods of power outage. This applies Town-wide.	Hurricane, Winter Storm	High	Town Manager	Local	Annual	Completed. Performed monthly inspections and testing.
ES2	Establish a procedure to assist with evacuation of residents at the local assisted living facility, should this become necessary.	All	High	Town Manager Police Department	Local	Annual	Deleted. Facility has closed, but unsure if another facility will reopen. Leaving Mitigation action for this reason.
PI1	Set up a pamphlet rack in the Town hall to provide public safety and hazard preparedness information.	All	Medium	Town Clerk	Local Grants	Annual	Completed. Town Staff will work to obtain a rack to be placed in the Town Hall and public safety and hazard information will be updated continuously.

Jacksonville

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
				PREVENTION			
P1	Actively pursue state and federal grant funds to assist in the hazard mitigation recommendations included in the plan.	All	Medium	All Departments	Local		Delete –The City consistently researches and applies for state and federal grant funding to assist with hazard mitigation recommendations.
P2	Jacksonville will encourage projects undertaken by the Jacksonville Police Department, Jacksonville Fire & Emergency Services Department, Public Services, Development Services and Parks and Recreations Departments that will lessen the vulnerability of the City and its residents to natural hazards.	All	Medium	All Departments	Local		Complete -The City meets with stakeholders and reviews mutual and automatic aid agreements on an annual basis.
P3	The mitigation strategies will be reviewed at least yearly to evaluate progress on the mitigation strategies selected and identify new strategies.	All	Medium	All	Local		Complete – The City reviews mitigation strategies as part of the overall Southeastern NC Regional Hazard Mitigation Plan on an annual basis. The City will continue this practice.
P6	Jacksonville will maintain compliance with State wellhead protection requirements.	Flood	High	Planning and Inspections Director, Public Services Director	Local		Complete – The City is in compliance with all State wellhead requirements.
P7	The requirements placed upon the City by its NPDES Coastal Rules Stormwater permit are intended to help prevent increases in the frequency,	Flood	Medium	Engineering	Local		Complete - NPDES Stormwater permit was issued on March 1, 2017.Next permit application period will be 2022.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	duration and intensity of repetitive flooding.						
P8	The City utilizes the NC state building code requirements for new installations of mobile homes.	All	Medium	Development Services and Code Enforcement	Local		Complete – The City presently utilizes NC Building Code requirements for new installations of mobile homes.
P9	Retrofit critical facilities and county owned facilities for improved resilience to all hazards with the use new technology. This could include but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, anchoring fixed building equipment.	All	Medium	Buildings and Inspections, Planning Dept., Emergency Services	Local, State Grants, UHMA Grants, other federal grants		Complete – The City presently adheres to this practice.
PP1	Make use of Jacksonville's flood plain, parcel data, and aerial photographs in digital format. The City is capable of overlaying these coverages on its geographic information system (GIS). This is an existing program	Flood	Medium	ITS	Local		Complete - Staff will continue to existing staff and capabilities, in addition to assistance from the Onslow County GIS staff and the North Carolina Floodplain Mapping Information System when issuing permits. Data is reviewed for accuracy and completeness annually.
PP4	The City utilizes NC state fire code requirements for securing LP tanks and aboveground fuel tanks in areas subject to flooding. The Department of	Flood	Medium	Public Safety, Development Services and Code Enforcement	Local		Complete – The City utilizes the 2018 NC Fire Prevention Code requirements as related to this description. The City also performs state mandated fire inspections of commercial and

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	Public Safety periodically inspects commercial properties for these and other potential problems according to the schedule established by City Code and NC State Fire Code. This item is also addressed in periodic public awareness media regarding hurricanes and flooding.						multi-family occupancies per the inspection scheduled stated within the fire code.
PP5	The City utilizes NC state building code requirements to ensure adequate tie-down requirements for new installations and construction of accessory buildings greater than 144 square feet. The Building Inspections Division will provide information regarding anchoring and tie-down requirements to local suppliers.	All	Medium	Building Inspections	Local		Complete – The City utilizes the NC Building Code requirements to ensure adequate tie down
NATURAL RESOURCE ACTION							
NR1	The City revised the Flood Prevention Ordinance during September, 2005 to ban and/or remove existing companies with hazardous material/junkyards out of the floodplains.	Flood	Low	Development Services and Code Enforcement	Local		Complete - Modification of floodplain zones resulted in one salvage yard being removed from the floodplain. Other hazardous material/salvage yard occupancies that have been identified within floodplain zones have been documented as such and inspected as needed. The Flood Prevention Ordinance established in September 2005 disallows any development of such occupancies in the designated floodplains and prevents re-entry in

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
							the event of catastrophic damage. The City provides follow-up investigations on any potential violations. FY20, the city adopted an update to this ordinance. Additionally 16 units are being acquired through the HMGP.
EMERGENCY SERVICES							
ES1	Review, update and test the City Emergency Operations Plan.	All	Medium	All Departments	Local	Annual	Complete – The City reviews and tests the Emergency Operations Plan at least annually through drills and exercises.
STRUCTRUAL							
S1	Maintain ditches along streets to facilitate drainage. This is a City-wide program managed by the Streets Division wherever swales provide street drainage; this program is ongoing and includes routine ditch clearing, street sweepings, and catch basin cleaning.	Flood, Hurricane	Low	Public Services	Local	2024	Deferred - The City has funded capital projects that are intended to improve storm water drainage in areas of the City where there is a significant history of flooding affecting multiple properties. Parkwood Area Stormwater project: improved the storm water drainage to a residential area, along with additional improvements to the water and sewer lines and some of the streets in the affected area.
PUBLIC INFORMATION							
PI1	City will deliver a citizen education program on water conservation to include distribution of free water conservation kits to City water customers.	Drought	Medium	Public Services	Local		Complete - The City provides citizen education through the water sewer advisory committee and through various outreach mediums.
PI2	Jacksonville will maintain documents about flood insurance, flood protection, flood plain management, and natural and beneficial functions of flood plains. Many documents are	Flooding	Medium	CRS Coordinator	Local		Complete - The City reviews these documents on an annual basis and will continue with this process.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	available free of charge from the Federal Emergency Management Agency (FEMA). This is work performed for the CRS program.						
PI3	Provide flood-proofing information to those owners/residents living in repetitive loss structures	Flooding	Medium	Developmental Services, Code Inspections	Local		Complete. The City has held meetings with residents who have experienced repetitive flood loss.
PI4	Assist local real estate agents, insurance companies, banks and other lending institutions by notifying them of the availability of flood plain information.	Flooding	Low	The Community Rating System (CRS) Coordinator	Local		Complete - Information is available to local agencies via the City's website. Although it applies to areas adjacent to flood hazard areas, the information is available city-wide. The City also utilized mailers to listed firms.

North Topsail Beach

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
PREVENTION							
P1	Remain current with all Community Rating System reporting requirements to ensure program compliance. Actively pursue activities that will lower our CRS rating.	Flood	Medium	Planning Department	Local		Deleted, capability maintained as part of CRS program.
P2	Request courtesy review by ISO/CRS Coordinator's to identify additional CRS credit activities.	Flood	Medium	Planning Department	Local		Deleted, capability maintained as part of CRS program.
P4	Review, update and test the NTB Storm Preparedness Plan. Review with all departments.	All	High	All Departments	Local		Deleted, capability maintained as part of CRS program, will also be included in EOP.
P5	NTB will enforce storm water regulations established by the State and incorporate regulations in Zoning Ordinance.	Flood	High	Planning	Local		Deleted, capability maintained as part of Unified Development Ordinance, CAMA Land Use Plan and CAMA program.
P6	NTB has a Master Plan for the Town and will review and update the master plan on and yearly basis	Flood	Low	Planning	Local		Deleted, capability maintained as part of Unified Development Ordinance and CAMA Land Use Plan.
P8	The town will support and enforce State rules and guidelines for AEC located within the Town limits.	Flood	High	Planning	State Local		Deleted, capability maintained as part of Unified Development Ordinance and CAMA Land Use Plan.
PROPERTY PROTECTION							
PP1	Make use of NTB flood plain, parcel data, and aerial photographs in digital format	Flood	High	Planning Department	Local		Deleted, capability maintained as part of Unified Development Ordinance and CAMA Land Use Plan.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	overlaid through Onslow County GIS.						
PP3	Enforce tie-down requirements for LP tanks and above ground oil heating tanks.	Flood, Hurricane, Tornado	Medium	Planning	Local	Annual	Deleted, capability maintained as part of Unified Development Ordinance and CAMA Land Use Plan.
PP4	Require structures damaged more than 50% to be rebuilt in compliance with current standards in accordance with CAMA regulations and UDO Article 7 Flood Damage Prevention.	Flood, Hurricane	High	Planning/Building Inspections	Local	Annual	Deleted, capability maintained as part of Unified Development Ordinance and CAMA Land Use Plan.
PP6	Restrict bulk fuel storage facilities in accordance with the CAMA Land Use Plan	Hurricane, Flood, Tornado	High	Zoning, CAMA/CRS Coordinator	Local		Deleted, capability maintained as part of Unified Development Ordinance and CAMA Land Use Plan.
PP7	Limit the amount of impervious surface allowed for each lot to minimize storm water runoff in accordance with the NTB Town Code and CAMA regulations.	Flood, Hurricane	High	Zoning, CAMA/CRS Coordinator	Local		Deleted, capability maintained as part of Unified Development Ordinance, CAMA Land Use Plan and CAMA regulations.
PP8	Prevent dune disturbances and restrict structures in the inlet hazard area to single-family dwellings only in accordance with the CAMA Land Use Plan.	Flood, Hurricane	High	Zoning, CAMA/CRS, Coordinator	Local		Deleted, capability maintained as part of Unified Development Ordinance, CAMA Land Use Plan and CAMA regulations.
PP9	Enforce a 48 foot height maximum for new structures in accordance with the UDO.	Flood, Hurricane	High	Zoning	Local		Deleted, capability maintained as part of Unified Development Ordinance, CAMA Land Use Plan.
PP10	Enforce the VE Zone Construction Standards in accordance with UDO Article 7 Flood Damage Prevention.	Flood, Hurricane	High	Zoning, Building Administrator	Local		Deleted, capability maintained as part of Unified Development Ordinance.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
PP11	Enforce setback requirements for Ocean Hazard and Inlet Hazard Areas in accordance with CAMA regulations.	Flood, Hurricane	High	Zoning, CAMA/CRS Coordinator	Local		Deleted, capability maintained as part of Unified Development Ordinance, CAMA Land Use Plan and CAMA regulations.
PP12	Require a buffer area from the mean high water line in accordance with CAMA regulations	Flood, Hurricane	High	CAMA/CRS Coordinator	Local		Deleted, capability maintained as part of Unified Development Ordinance, CAMA Land Use Plan and CAMA regulations.
PP13	Install backup generators with automatic transfer switches and/or transfer switches for mobile generators on all critical facilities and critical utilities.	All	Medium	Emergency Services, Facilities Maintenance	UHMA		Completed.
EMERGENCY SERVICES							
ES1	Maintain a map and list of streets that would be advised to evacuate in the event of a hurricane. At the appropriate time, Police and Fire will assist in the evacuation of those residents who are unable to leave on their own.	Flood	Medium	LEO, FD	Local		Deleted, capability maintained as part of the CRS program.
STRUCTURAL							
S1	Perform annual assessment town wide of ditches to ensure proper grading. Coordinate with NCDOT for repairs to ensure proper drainage.	Flood	Medium	NC DOT and NTB Public Works	Local		Deleted, capability maintained as part of Public Works ditch maintenance program and CRS program.
PUBLIC INFORMATION							
PI1	Work with the County to ensure implementation of a viable public education and outreach program for mitigation, preparedness, response, and recovery. Refer to	All	High	CRS Coordinator	Local		Deleted, capability maintained as part of CRS program.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	the OC MJ-HMP for more information.						
PI2	Assist local real estate agents with information handouts that will advise potential buyers to investigate the flood hazard for the property they are considering purchasing.	Flood	Medium	Planning Department, CRS Coordinator	Local		Deleted, capability maintained as part of CRS program.
PI3	Distribute flood protection flyers to all property owners in NTB through a community newsletter. The flyer should include a general identification of the local flood hazard, flood safety, flood insurance, property protection, flood plain development permit requirements and drainage system.	Flood	Medium	Town Clerk	Local		Deleted, capability maintained as part of CRS program.
PI4	Send a public information letter to repetitive loss structures. Identify new losses and maintain repetitive loss database.	Flood	Low	Planning	Local		Deleted, capability maintained as part of CRS program.
PI5	Maintain Town web site providing all hazards information to include but not limited to: flooding, hurricanes, erosion, severe storms, etc.	All	Medium	CAMA/CRS Coordinator	Local		Deleted, capability maintained as part of CRS program.
PI6	Provide list of contractors skilled in retrofitting techniques.	All	Medium	Building Inspector	Local		Deleted, capability maintained as part of CRS program.
PI7	NTB will maintain flood insurance, flood protection, flood plain management, and natural and beneficial functions of flood plains. Many documents are located at	Flood	Medium	Planning Department	Local		Deleted, capability maintained as part of CRS program.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	Town Hall and Sneads Ferry Public Library; many Documents are from (FEMA).						

Richlands

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
P3	Richlands will enforce the Flood Damage Prevention Ordinance, which does not permit new solid waste disposal facilities, salvage yards and chemical storage facilities to be located in Special Flood Hazard Areas. The Town Administrator will review applications for work in the floodplain to ensure compliance with the Flood Damage Prevention Ordinance.	Flood	Medium	Town Administrator	Local	2021-2026	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance and permits will be processed per the regulations when submitted.
P5	Retrofit critical facilities and county owned facilities for improved resilience to all hazards with the use new technology. This could include but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, anchoring fixed building equipment.	All Hazards	Medium	Buildings and Inspections, Planning Dept., Emergency Services	Local, State Grants, UHMA Grants, other federal grants	2021	Completed: Installed a new 80 KW generator at town hall/police department to facilitate town emergency operations during hazardous events.
PROPERTY PROTECTION							
PP1	Richlands will evaluate the current building and development forms for evidence that they identify and address mitigation strategies.	All Hazards	Medium	Planning/ Zoning	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.
PP2	Make use of Richlands flood plain, parcel data, and aerial photographs in digital format. Onslow County GIS will assist with this.	Flood	High	Planning/ Zoning	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance and Federally developed and approved FIRMS as part of the participation in the NFIP.
PP4	Richlands will maintain tie-down requirements for LP tanks and	Flood	Medium	Planning Department	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
	aboveground heating oil tanks that are in the flood hazard areas.						
PP5	Richlands will consider adding tie-down requirements for all sheds, garages, carports, etc., that do not have walls secured to the floor in a manner meeting the NC Building Code. This will be applied Town wide.	Tornado, Hurricane	Medium	Planning Department	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.
PP6	The Town will utilize ordinances and land use controls to regulate development within the floodplain and update them as necessary.	Flood	High	Planning/ Zoning	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.
PP7	Install backup generators with automatic transfer switches and/or transfer switches for mobile generators on all critical facilities and critical utilities.	All	medium	Emergency Services, Facilities Maintenance	UHMA	2021	Completed: A new 80 KW backup generator with automatic transfer switch is in the process of being installed at the town hall to town facilitate emergency operations.
NATURAL RESOURCE ACTION							
NR1	Richlands will maintain documents about flood insurance, flood protection, flood plain management, and natural and beneficial functions of flood plains.	Flood	Medium	Planning/ Zoning	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.
NR2	Richlands will consider revising the Flood Prevention Ordinance to ban and/or remove existing companies with hazardous material/ junkyards out of the flood plains	Flood	Low	Planning/ Zoning	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.
EMERGENCY SERVICES							
ES2	The Town will maintain a listing of streets that would serve as main evacuation routes in the event of a hurricane.	Hurricanes	High	LEO, VFD	Local	2021	Deleted: The primary evacuation routes out of Richlands are all part of the State Highway System, including Federal Aid Highway 258/24.

Action #	Description	Hazard(s) Addressed	Relative Priority	Lead Agency/Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2021)
ES3	Richlands will address the roads on private property within the town limits that are unable to accommodate emergency vehicles through a public awareness campaign.	All Hazards	High	Town Administrator VFD	Local	2021	Completed: No roads required addressing.
PUBLIC INFORMATION							
PI1	Richlands will develop, enhance, and implement education programs aimed at mitigating natural hazards, and reducing the risk to citizens, public agencies, private property owners, businesses, and schools.	All Hazards	Medium	Town Administrator	Local Grants	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.
PI2	Richlands will provide flood protection information to all property owners in Richlands through the use of a quarterly newsletter, utility bill, website, maps or other available methods. The information should include links to local flood ordinances and regulatory maps provided by Federal and State flood mapping authorities.	Flood	Medium	Town Administrator, Town Clerk, Billing Clerk	Local	2021	Deleted: Capabilities are maintained by the adopted Flood Damage Prevention Ordinance in accordance with the NFIP.

Pender County

Strategy 1.1: In concert with the American Red Cross (ARC), maintain a continuously updated list of all ARC approved shelters.

Progress: The County has maintained an updated list of all ARC approved shelters over the last five years as a component of the Couny's ongoing Emergency Operations Planning. The County will revisit this issue on annual basis in conjunction with EOP updates.

Status/Corresponding 2015 Strategy: PC1

Strategy 1.2: Continuously maintain, on the County's website, instructional information on ensuring that onsite sheltering is as safe an option as possible.

Progress: This strategy was deemed redundant to other strategies outlined through the update. Due to this fact the strategy is being eliminated from the plan.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 2.1: Maintain continuous contact/working relationship with electric service providers in the County to address the following (1) disaster preparedness techniques (e.g., tree trimming, vegetation planting requirements, pole replacement), (2) Identify critical electrical facilities needing retrofit or upgrade and map with elevation reference marks and, (3) communication with County officials during and immediately after a natural hazard event that results in loss of electrical power. The MAC will meet at least once per year with electric service providers.

Progress: The County, in conjunction with participating municipalities, has maintained a working relationship with electric service providers through annual EOP processes and procedures reviewed on an annual basis. These efforts include holding an annual coordination meeting prior to the start of hurricane season.

Status/Corresponding 2015 Strategy: PC2

Strategy 2.2: Improve capability of secondary power source at all Pender County and Municipal critical facilities (all buildings).

Progress: Pender County has worked closely with the Towns, as well as NCDPS to ensure that alternative power sources are available at all critical facilities.

Status/Corresponding 2015 Strategy: PC3

Strategy 2.3: Retrofit all Pender County and Municipal facilities for lightning protection (existing

buildings).

Progress: This strategy has eliminated through the plan update due to a lack of funding and logistical difficulties.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 3.1: Support conservation easements on all floodprone property and impose such easements on all properties acquired with public assistance funds.

Progress: The County, as well as all participating jurisdictions, have maintained this policy over the last five years in an effort to minimize development in the floodplain.

Status/Corresponding 2015 Strategy: PC4

Strategy 3.2: Integrate new greenway and public park improvements into comprehensive planning and capital improvement efforts (including coordination with all local certified CAMA land use plans).

Progress: This strategy has been removed due to a lack of success in carrying this out over the past two planning periods. The County will revisit this through future Comprehensive Planning Processes, but this strategy will not be carried forward through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 3.3: Provide annual review of development restrictions in floodplain areas and maintain initiatives to ensure limited residential and commercial development in the floodplains and protection of critical facilities. Specifically, address soil testing for engineered foundations, minimum lot size, critical facility protection, manufactured home park requirements including anchoring and elevation, and freeboard requirements (new buildings).

Progress: The County, as well as participating municipalities, have reviewed all land development regulations to ensure that to the maximum extent practicable, floodplain development is limited. These efforts included review of the County's Flood Damage Prevention Ordinance as required through NCDPS and FEMA. No changes were made over the last five years.

Status/Corresponding 2015 Strategy: PC5

Strategy 3.4: Maintain all properties acquired through HMGP Funding or other sources aimed at addressing natural hazard mitigation as open space in perpetuity.

Progress: The County maintained all parcels acquired through HMGP funds as open space. When possible, these sites will be utilized in a manner compatible with FEMA reuse standards; however, this effort has not been achieved over the last five years.

Status/Corresponding 2015 Strategy: PC6

Strategy 4.1: Review "firewise" zoning and subdivision standards and recommend their appropriateness for incorporation into existing (or new) zoning, subdivision, or UDO ordinances. (Source: http://www.firewise.org) This will include the establishment of buffers around National Forest Areas and extreme wildfire areas, improved subdivision design, and other identified mitigation actions. All plans to be reviewed by local Fire Department (new buildings).

Progress: This strategy has not been carried out to date, and there is no intention to proceed with this effort.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 5.1: Annually review County and Municipal Zoning, Subdivision, UDO, and Flood Damage Prevention Ordinances for improved control of flooding hazards, including identifying/responding to new flood data.

Progress: This strategy was deemed redundant to strategy eight outlined above and therefore has been eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 5.2: Adopt and annually update a capital improvement plan with an emphasis on mitigation for critical facilities including relocation and retrofitting (existing buildings). (NOTE: Subject to funding availability)

Progress: The County has maintained this strategy through the annual budget deliberation. The recommendations and data outlined in the 2011 HMP were factored into this discussion.

Status/Corresponding 2015 Strategy: PC7

Strategy 5.3: At the staff level, work with the North Carolina Department of Transportation (NCDOT) to identify and develop resolutions for drainage issues created by NCDOT facilities, including inspections of channels, retention basins, and, as needed, pursue debris removal.

Progress: No progress has been made regarding this strategy over the last five years; however, the County will continue to work closely with NCDOT to resolve these issues.

Status/Corresponding 2015 Strategy: PC8

Strategy 5.4: Apply for all available funding from the Hazard Mitigation Grant Program (HMGP) and funds to assist with the mitigation of severe repetitive loss properties to relocate structures out

of the floodplain (existing buildings).

Progress: Over the last five years, the County has not received any HMGP funding to treat repetitive loss properties.

Status/Corresponding 2015 Strategy: PC9

Strategy 5.5: Require a finished floor elevation certificate for all development within the special flood hazard area (SFHA) within both incorporated and unincorporated portions of the County. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined special flood hazard area without the submittal of the required elevation certificate (new buildings).

Progress: The County has continued to implement this strategy in concert with the NFIP program over the last five years.

Status/Corresponding 2015 Strategy: PC10

Strategy 5.6: Continue to comply with North Carolina State Coastal stormwater regulations.

Progress: The County has continued to maintain this strategy in concert with NCDEQ over the last five years.

Status/Corresponding 2015 Strategy: PC11

Strategy 5.7: Continuously maintain information concerning the County's flood data maintenance efforts, including GIS/tax parcel data.

Progress: The County has continued to maintain updated tax parcel information in an effort to ensure effective monitoring and analysis throughout flood prone portions of the County.

Status/Corresponding 2015 Strategy: PC12

Strategy 6.1: Maintain a map information service involving the following: (1) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including providing information on whether a given property is located within a flood hazard area, (2) Provide information regarding the flood insurance purchase requirement on the county's website, (3) Maintain historical and current FIRM's, (4) Locally advertise annually in the local newspaper, (5) Provide information to inquirers about local floodplain management requirements, (6) Include in the county's newsletter (all property owners) and on the county's website a letter on flood insurance, (7) Notify property owners within a floodprone area that they are subject to flooding (all buildings).

Progress: This strategy has continued to be implemented by the County, as well as participating

municipalities, in an effort to promote sound development throughout the County's flood hazard area.

Status/Corresponding 2015 Strategy: PC13

Strategy 6.2: Make information regarding hazards and development regulations within the floodplains available through the following: (1) The County Planning Director will ensure that the local library maintains information relating to flooding and flood protection and (2) The County will provide a link on their website to FEMA resources addressing flooding and flood protection (all buildings).

Progress: This strategy has been maintained as a day-to-day function of County service delivery. This fact is reflected in the updated plan.

Status/Corresponding 2015 Strategy: PC14

Strategy 6.3: Provide comprehensive services regarding planning and development activities within the defined SFHA. These services will include (1) Providing site specific flood and flood-related information on an as needed basis, (2) Building inspections department will maintain a list of contractors with experience in floodproofing and retrofit techniques, (3) Building inspections department will maintain materials providing an overview of how to select a qualified contractor, (4) Make site visits upon request to review occurrences of flooding, drainage, and sewer problems--if applicable, inspector should provide one-on-one advice to the property owner, (5) Provide advice and assistance regarding CRS Activity 530, (6) Advertise the availability of services annually within the local newspaper, and (7) Maintain a log of all individuals assisted through these services, including site visits (all buildings).

Progress: This strategy has been maintained as a day-to-day function of County service delivery. This is reflected in the updated plan.

Status/Corresponding 2015 Strategy: PC15

Strategy 6.4: Pender County will work with local real estate agencies to ensure that agents are informing clients when property for sale is located within an SFHA. The County will provide these agencies with brochures documenting the concerns relating to development located within flood prone areas. (all buildings)

Progress: Pender County has continued to carry out this strategy as a component of the Community Rating System Program. The County assists County CRS communities with carrying out this activity.

Status/Corresponding 2015 Strategy: PC16

Strategy 6.5: Coordinate with the Pender County School System Hazards Awareness Educational

Programs for use by educators within the Pender County School System.

Progress: This strategy has been carried out as a component of the County's Emergency Operations Planning Program over the last five years.

Status/Corresponding 2015 Strategy: PC17

Strategy 6.6: Post educational information on the County's website addressing the hazards associated with wildfires, hail, tsunamis, and storm surge.

Progress: This strategy has been carried out as a component of the County's Emergency Operations Planning Program.

Status/Corresponding 2015 Strategy: PC18

Strategy 7.1: Continue to rely on the Pender County Emergency Operations Plan (EOP) for effective disaster event communication.

Progress: This strategy has been carried out, including annual updates, in conjunction with all participating jurisdictions.

Status/Corresponding 2015 Strategy: PC19

Strategy 7.2: Maintain a registry of special needs individuals which has been coordinated with the Pender County Department of Social Services. This list will include: (1) Persons on life support systems, (2) Persons dependent on electricity for medical equipment, and (3) Persons with severe mental handicap or mental illness. Coordinate with current county system and local plans. Connect with county CTY (Call Back Program).

Progress: Pender County in conjunction with all participating jurisdictions has worked to promote and solicit participants into the Special Medical Needs program on an annual basis.

Status/Corresponding 2015 Strategy: PC20

Strategy 7.3: Pender County, in conjunction with all participating municipal jurisdictions participating in this document, will work on the five year implementation of this plan. At the end of this five year period, the county will undertake efforts to update this plan including the following ten planning steps: (1) Organize to prepare the plan, (2) Involve the public, (3) Coordinate with other agencies, (4) Assess the hazard, (5) Assess the problem, (6) Set goals, (7) Review possible activities, (8) Draft an action plan, (9) Adopt the plan, and (10) Implement, evaluate, and revise.

Progress: Pender County has carried out this strategy as a requirement and component of plan implementation.

Status/Corresponding 2015 Strategy: PC21

Strategy 8.1: Support storm hazard mitigation policies provided in the 2004 Pender County CAMA Land Use Plan, including redevelopment policies.

Progress: Pender County acknowledges the strategies and data in this plan through all Comprehensive Planning updates, and will continue to do so. Due to this fact, this strategy has been eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 8.2: Continue to enforce the International Building Code, to include requiring that new structures or structures undergoing significant renovation (renovations or expansion exceeding 50% of fair market value) meet code requirements for coastal and noncoastal areas (all buildings).

Progress: Pender County, as well as all participating jurisdictions, have continued to enforce the International/NC State Building Code.

Status/Corresponding 2015 Strategy: PC22

Strategy 8.3: Continue to support the NC Office of Dam Safety's efforts to monitor and inspect all dams throughout the state. The county will rely on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable (all buildings).

Progress: Pender County has carried out this strategy as a component of the Community Rating System Program. The County assists County CRS communities with carrying out this activity.

Status/Corresponding 2015 Strategy: PC23

Strategy 8.4: Request Hazard Mitigation Assistance (HMA) funding for the elevation/floodproofing of repetitive loss properties (existing buildings).

Progress: Pender County, in collaboration with participating municipalities, have pro-actively addressed elevation/acquisition efforts for structures deemed to be Repetitive Loss Properties. The County received award in late 2015 of an FY14 FMA project consisting of five acquisitions and six elevations.

Status/Corresponding 2015 Strategy: PC24

Strategy 8.5: Request Hazard Mitigation Assistance (HMA) funding for wind proofing of critical facilities (existing buildings).

Progress: This strategy was not completed over the last five years. The Town will continue to seek funding under implementation of this update.

Status/Corresponding 2015 Strategy: PC25

Strategy 8.6: Consider working with regional partners on the development and adoption of legislation that will enable the County to enforce the wind-borne debris international Building Code standards throughout the County (enabling the County to secure a CRS Rating of 5).

Progress: This strategy has been eliminated from the plan, due to the fact that this strategy is not considered politically feasible.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 9.1: Continue to implement the activities outlined within the standing NPDES Permit issued through the North Carolina Department of Environmental and Natural Resources. These efforts provide a comprehensive approach to stormwater management planning.

Progress: Pender County is not currently an NPDES community, and therefore this strategy has been removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 9.2: Continue to maintain state approved water supply plans.

Progress: This strategy has been maintained by Pender County, as well as all municipal entities within the County that maintain a locally maintained public water system.

Status/Corresponding 2015 Strategy: PC26

Strategy 9.3: Adopt water shortage response plans and water shortage ordinances.

Progress: A water shortage response plan was adopted by Pender County in 2011. The ordinance continues to be enforced.

Status/Corresponding 2015 Strategy: PC27

Strategy 9.4: Monitor the county's water supplies to determine if aquifers are threatened or if other alternatives are required.

Progress: This strategy has been eliminated due to the fact that this issue falls under the jurisdiction of NCDENR and is handled at the regional level.

Status/Corresponding 2015 Strategy: Eliminated

Strategy 9.5: Continue to seek funding sources for the elevation or retrofitting of existing sewer lift stations in an effort to reduce or eliminate the impacts from flooding.

Progress: Pender County, in collaboration with participating municipalities, have pro-actively addressed elevation/acquisition efforts for structures deemed to be Repetitive Loss Properties over the last five years.

Status/Corresponding 2015 Strategy: PC28

Town of Surf City

Strategy Surf City 1.1.1: Hold a community sponsored hazard mitigation seminar for the community residents, including information on preparedness for all hazards significant to Surf City.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: PC18

Strategy Surf City 1.1.2: Educate contractors about principles for quality redevelopment and safe housing development through written materials or a community sponsored workshop.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: PC13, PC14, PC15

Strategy Surf City 1.1.3: Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the community administration buildings.

Progress: The Town's Planning and Inspections Department maintains a well-trained staff which provides comprehensive services to property owners regarding building and development. These services include guidance regarding development in the defined flood hazard areas. The departments also maintain a library of materials available for review by citizens and builders. These materials are also made available through local library branches and provided to local real estate agents in an effort to provide comprehensive education and outreach regarding development in hazard prone areas. The County, in collaboration with participating municipal jurisdictions, will continue to maintain and provide this information through respective local planning and inspections offices throughout the County.

Status/Corresponding 2015 Strategy: PC14, PC15

Strategy Surf City 1.2.1: Manually disperse and have a website posting which provides information about the Community-Based Hazard Mitigation Plan for Surf City and relevant mitigation measures the public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions oon the plan.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC14, PC18

Strategy Surf City 1.2.2: Manually disperse and have a website posting which provides information about the Multi-Hazard Recovery Plan for Surf City.

Progress: The Town has maintained this information on the Town website over the last five years and will continue to update the website. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC14, PC18

Strategy Surf City 2.1.1: Purchase a complete GIS/plotter setup and provide training on said set up to all pertinent Town personnel.

Progress: This strategy has been completed and therefore, will be removed through the plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 2.1.2: Purchase a GPS system for the Public Works Department, Police

Department, and Community Development Department.

Progress: This strategy has been completed and therefore, will be removed through the plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 2.1.3: Secure the services of two interns to assist in plotting latitude and longitude of all community structures to develop a data base of structures that could potentially be damaged by a disaster. This will ensure data is immediately available and accurate in order to apply to FEMA funding in the future.

Progress: This strategy has not been completed and will be eliminated since current full-time staff handles this function.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 2.1.4: Purchase a Command Mobile Unit (CMU) for use by the Police Department and Fire Department during and following a disaster.

Progress: This strategy was completed in 2011, and therefore, will be eliminated.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Surf City 2.1.5: Purchase a loader for the Public Works Department in an effort to remove sand from the roads (thereby reopening them) and to replace sand back on the beach (lessening the potential for additional berm damage) in a more timely fashion after a severe disaster.

Progress: This strategy was completed in 2012, and therefore, will be eliminated.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Surf City 2.1.6: Purchase a hand held radio for the Public Works Department in an effort to continue communications between primary town personnel during and following a disaster.

Progress: This strategy was completed in 2012, and therefore, will be eliminated.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Surf City 2.1.7: Purchase backup generators for 3 sub-stations (15kw) in an effort to mitigate the potential for overflow during a flooding event and to ensure continued service following a disaster.

Progress: This strategy was completed in 2013, and therefore, will be eliminated.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Surf City 2.1.8: Purchase a generator for the Police Department (50kw) to ensure communications equipment remains in operation during and following a disaster.

Progress: This strategy was completed in 2013, and therefore, will be eliminated.

Status/Corresponding 2015 Strategy: Completed/Eliminated

Strategy Surf City 2.1.9: Install System Control and Data Acquisition (SCADA) System to assist in keeping the water and sewer systems in working order before, during, and following a disaster.

Progress: This strategy has not been accomplished and will be eliminated because of lack of funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 3.1.1: Replace the Police Department.

Progress: This strategy has not been accomplished and will be eliminated because of lack of funding.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 3.1.2: Elevate Town Hall.

Progress: This strategy has not been completed to date, but the Town will aim to accomplish this effort through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC9, PC24

Strategy Surf City 3.2.1: Participate in the CRS program and develop a CRS plan to assist in mitigating repetitive losses in Surf City.

Progress: The Town has not joined the CRS program to date. The Town will consider joining through this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: Table 6-5 (page 6-40)

Strategy Surf City 3.2.2: Develop a stand-by application for submission to the Hazard Mitigation Grant Program for elevation of structures in the identified areas of repetitive damage.

Progress: This strategy has not been completed; however, NCDPS now handles this function.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 3.2.3: Develop a stand-by application for submission to the Hazard Mitigation Grant Program for acquisition of structures in the identified areas of repetitive damage.

Progress: This strategy has not been completed; however, NCDPS now handles this function.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 3.3.1: Implement the recommendations set forth in the Stormwater Management Study and any subsequent amendments that will reduce the potential for damage as a result of improper stormwater drainage.

Progress: Portions of this strategy have been implemented; however, the County continues to carry out implementation. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC7

Strategy Surf City 3.3.2: Continue to seek alternate funding sources to implement the recommendations set forth in the Stormwater Management Study from 2000 and any subsequent amendments.

Progress: Portions of this strategy have been implemented; however, the County continues to carry out implementation. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC7, PC11

Strategy Surf City 4.1.1: Update and revise the Zoning Ordinance and its subsequent maps.

Progress: The Town has not updated local zoning regulations; however, the Town will aim to budget funding for this effort through implementation of this plan update. The actions defined under this

locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC5

Strategy Surf City 4.1.2: Update and revise the local Subdivision Ordinance.

Progress: The Town has not updated local zoning regulations; however, the Town will aim to budget funding for this effort through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC5

Strategy Surf City 4.1.3: Update and revise the CAMA Land Use Plan.

Progress: The Town has not updated local zoning regulations; however, the Town will aim to budget funding for this effort through implementation of this plan update. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC5

Strategy Surf City 4.2.1: Develop a Multi-Hazard Disaster Recovery Plan to replace the existing Hurricane Plan.

Progress: This strategy has not been accomplished; however, this Regional HMP should serve to address this issue.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 5.1.1: Continue to enforce the North Carolina State Building Code. Require that new structures or structures undergoing significant renovation meet code requirements for coastal areas in accordance with the International Building Codes.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-

wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC22

Strategy Surf City 5.1.2: Reduce the potential for wind borne missals by taking a pro-active approach to investigating and condemning structures that are substantially damaged and unsuitable for habitation.

Progress: The County, as well as all participating jurisdictions, actively enforce the building code and adopt amendments and changes as required. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC22

Strategy Surf City 6.1.1: Develop local Water Shortage Response Guidelines (in different phases) as a part of the Surf City Multi-Hazard Disaster Recovery Plan as it relates to the expectations of the Town's water supplier.

Progress: This effort was completed in 2012 and will be implemented through future updates of this plan. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is
a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC27

Strategy Surf City 7.1.1: Maintain hazardous materials event preparedness. The Town should develop a plan of action to maintain the materials and knowledge base for addressing such a spill, or develop preliminary measures to assist the county until the representatives arrive. This responsibility must be supported by provision of adequate funding for materials and trainings necessary to maintain this preparedness.

Progress: The Town has not completed this effort; however, Town emergency management has worked closely with the County LEPC to address this issue. The actions defined under this locally specific strategy statement will continue, but are now addressed through updated language presented in the County-wide Mitigation Strategies (Table 6-4). This change is a result of collaborative efforts focused on developing an effective Regional plan with effective intergovernmental coordination and cooperation.

Status/Corresponding 2015 Strategy: PC19

Strategy Surf City 7.2.1: The Town must inspect all propane tanks located within the town limits of Surf City to ensure they are secured as established through state regulations. Town officials have identified their concern is primarily related to tanks floating through town during high water events. However, this strategy will also prevent said tanks from being blown over due to high wind events.

Progress: It has been determined that staff does not have the resources to carry out this strategy. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 7.2.2: The Town should annually inspect all propane tanks located within the town limits of Surf City to ensure there are adequate valve systems.

Progress: It has been determined that staff does not have the resources to carry out this strategy. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 7.2.3: Secure interns to identify via GPS properties with privately-owned propane tanks.

Progress: It has been determined that staff does not have the resources to carry out this strategy. This strategy was deemed not relevant to mitigation activities and therefore, will be removed through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

Strategy Surf City 8.1.1: Increase the number of paid staff positions by adding one additional position.

Progress: This strategy has been deemed irrelevant to the Town's mitigation program and will be eliminated through this plan update.

Status/Corresponding 2015 Strategy: Eliminated

City of Jacksonville

Action #	Description	Hazard	Funding	Responsible Agency/Department	Target Completion Date	Priority	Benchmarks / Indicators of Progress
PREVENTION							
P3	City staff will review current water conservation plan and compare to comprehensive water shortage response plan.	Drought	Local	Public Services	Short Term	Medium	COMPLETED - The City has an adopted water conservation plan and 12 wells were added to the Castle Hayne aquifer; completion of the Nano-Filtration Water Treatment Plant expandable to 8 mgd.
P5	City will evaluate the current building and development forms for evidence that they identify and address mitigation strategies.	All Hazards	Local	Development Services Code Inspections	Annual	Medium	Completed - The Development Services Department has implemented a procedure that identifies threats or concerns with floodplain and/or CAMA regulations during the permitting process. The building and development forms have added required check-offs for reviews to ensure there are no conflicts with floodplain and CAMA regulations.
P8	Jacksonville will consider implementing a wellhead protection program	Flooding (Terrorism)	Local	Public Services Director	Short Term	Low	Completed – received study completed by consultant. New wells have appropriate designs; existing wellheads will be evaluated as upgrades are done
NATURAL RESOURCE ACTION							
*NR1	The City revised the Flood Prevention Ordinance during September, 2005 to ban and/or remove existing companies with hazardous material/junkyards out of the floodplains.	Flooding	Local	Development Services and Code Enforcement	Long-Term	Low	COMPLETED - Modification of floodplain zones resulted in one salvage yard being removed from the floodplain.

Action #	Description	Hazard	Funding	Responsible Agency/Department	Target Completion Date	Priority	Benchmarks / Indicators of Progress
							- Other hazardous material/salvage yard occupancies that have been identified within floodplain zones have been documented as such and inspected as needed. - The Flood Prevention Ordinance established in September 2005 disallows any development of such occupancies in the designated floodplains and prevents re-entry in the event of catastrophic damage.
EMERGENCY SERVICES							
ES2	Fire & Emergency Services Department is utilizing a records management system to accommodate the National Fire Information Reporting System Continuation of existing program.	Wildfire	Local	Fire & Emergency Services	Annual	Medium	COMPLETED - Monthly reports submitted to the Onslow County Fire Marshal and the NC Office of State Fire Marshal.
*ES3	Maintain listing of streets that would be advised to evacuate in the event of a hurricane. When required, the Police and Fire Departments will provide evacuation assistance to those residents who are unable to leave on their own. This applies to residents of flood hazard areas along the New River and its related tributaries as well as to any residents requesting assistance. This program applies at all times and to all natural and man-made threats.	Hurricane All Hazards	Local	Public Services, Public Safety, GIS	Annual	High	Completed A listing of at-risk streets has been compiled and will be maintained through periodic review.

Action #	Description	Hazard	Funding	Responsible Agency/Department	Target Completion Date	Priority	Benchmarks / Indicators of Progress
*ES5	The City will address roads on private property incapable of accommodating emergency vehicles through a public awareness campaign.	All Hazards	Local	Public Safety, Development Services and Code Enforcement, GIS	Short-Term	Medium	COMPLETED City GIS data does private roads in the City. These have been physically identified and evaluated for accessibility issues. This has been accomplished by the Fire Department. - Private driveways are reviewed during the permitting process for new developments by Public Safety, Code Enforcement, and Development Services.
STRUCTURAL							
S2	Improve site monitoring at wastewater pump stations.	Flooding Hurricanes	Local Grants	Public Services	Short Term	Medium	COMPLETED The City replaced all SCADA equipment to improve communication at all wastewater pump stations in order to better monitor and analyze the impact of rainfall and flooding to the sewer system

City of North Topsail Beach

Action #	Action	Hazard	Funding	Responsible Party	Target Completion Date	Priority	Benchmarks / Indicators of Progress
PREVENTION							
P5	NTB will enforce storm water regulations established by the State and incorporate regulations in Zoning Ordinance.	Flooding	Local	Planning	Annual	High	Completed. Regulations were incorporated into the Unified Development Ordinance. - Will ensure enforcement through the permit review process
PP3	The Town has revised its Flood Damage Prevention Ordinance to require 2-foot freeboard and VE Flood Zone construction requirements.	Flooding	Local	Planning	Annual	Medium	COMPLETED: FDPO was updated in 2010. Will ensure enforcement through the permit review and inspections process.

City of Swansboro

Action #	Action	Hazard	Funding	Responsible Party	Target Completion Date	Priority	Benchmarks / Indicators of Progress
PREVENTION							
P4	Request courtesy review by the State NFIP Coordinators Office to identify areas where Swansboro could acquire CRS credit points.	Flooding	Local	Planning Director	Long Term	Low	REMOVE: 2011 CAV visit performed. Action Completed. Determine if Town Board is willing to commit additional time, personnel, and funds to a program that affects relatively few residents.
P6	Swansboro is under the Phase I storm water regulations and has developed a storm water plan.	Flooding	Local	Planner Consultant	Short Term	Medium	REMOVE: Storm Water Plan was completed and adopted. Now reviewed on an annual basis. Removing as compliance not an action.
P9	Town will evaluate the current building and development forms for evidence that they identify and address mitigation strategies.	All Hazards	Local	Planner, Town Clerk, Inspector	Annual	Medium	REMOVE: Annual review is a compliance issue and not an action.
EMERGENCY SERVICES							
ES6	Fire Department is working on a computer system to accommodate the National Fire Information Reporting System	Wildfire	Local	Fire Chief	Short-Term	Medium	REMOVE: Project completed. Action will move into compliance monitoring

Appendix F
Flood Extent and Hazard Maps

This section of the plan includes (1) a table of potential flood extent for each participating county and municipality in the Southeastern NC Region based on maximum height stream gage data coupled with base flood elevations (BFE) and (2) Special Flood Hazard Area (SFHA) floodplain maps for each participating county and municipality in the Southeastern NC Region based on data from the Federal Emergency Management Agency (FEMA).

Potential Flood Extent by Jurisdiction

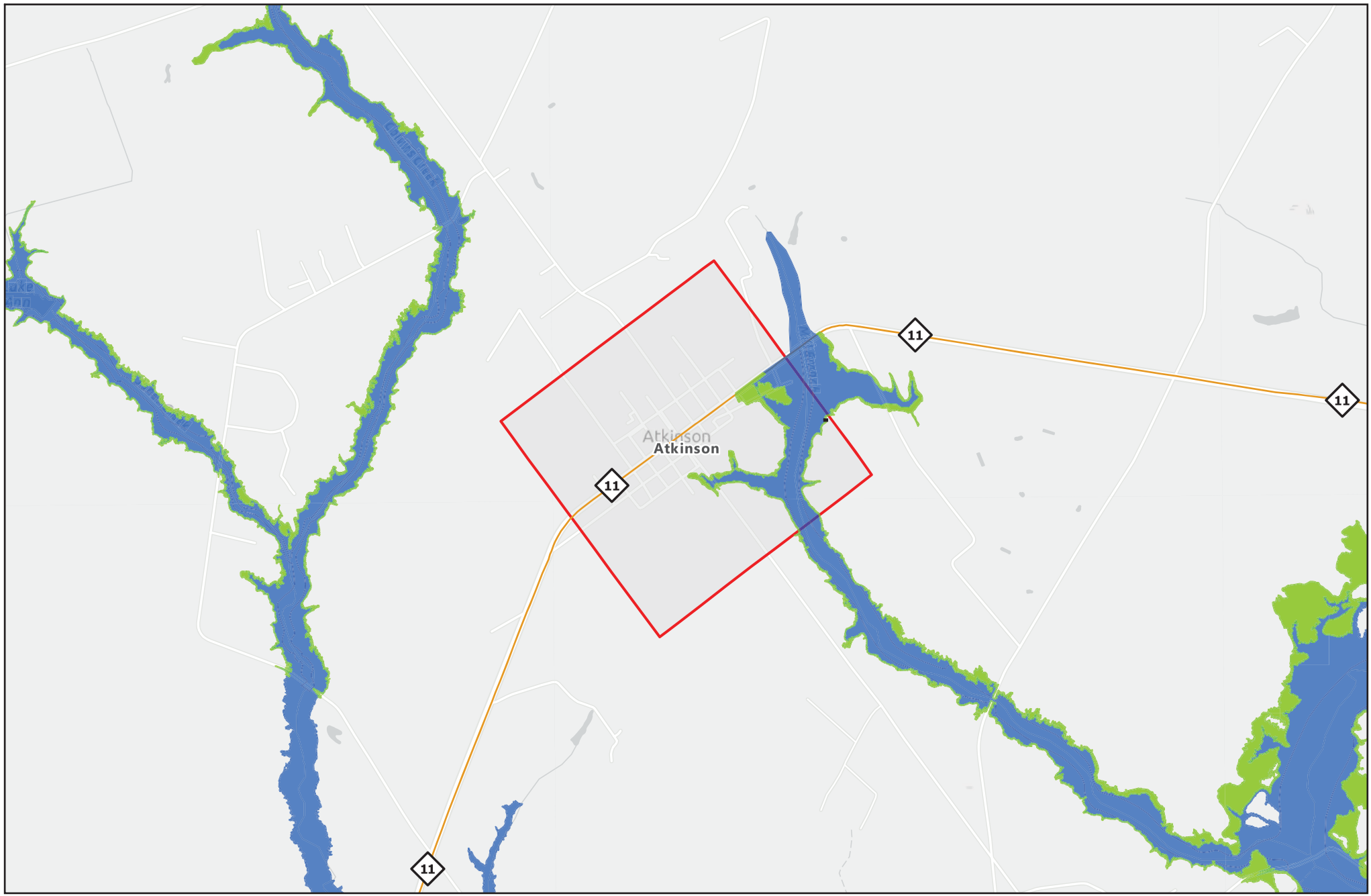
Location	USGS National Water Information System (NWIS)
Brunswick County	**99.53 ft** (44.99 ft NAVD88 Datum + 54.54 ft, 2/28/2019, USGS)
Bald Head Island	No USGS data, approximate highest BFE = 12 ft
Belville	No USGS data, approximate highest BFE = 9 ft
Boiling Spring Lakes	No USGS data, approximate highest BFE = 49.7 ft
Bolivia	No USGS data, approximate highest BFE = 47.1 ft
Calabash	No USGS data, approximate highest BFE = 13 ft
Carolina Shores	No USGS data, approximate highest BFE = 40.2 ft
Caswell Beach	No USGS data, approximate highest BFE = 14 ft
Holden Beach	No USGS data, approximate highest BFE = 17 ft
Leland	No USGS data, approximate highest BFE = 25.7 ft
Navassa	No USGS data, approximate highest BFE = 16.4 ft
Northwest	No USGS data, approximate highest BFE = 36 ft
Oak Island	No USGS data, approximate highest BFE = 45.3 ft
Ocean Isle Beach	No USGS data, approximate highest BFE = 25.7 ft
Sandy Creek	No USGS data, approximate highest BFE = N/A
Shallotte	No USGS data, approximate highest BFE = 48 ft
Southport	**36.25 ft** (7.99 ft NGVD29 Datum + 28.26 ft, 10/8/2024, USGS)
St. James	No USGS data, approximate highest BFE = 45.8 ft
Sunset Beach	No USGS data, approximate highest BFE = 16.4 ft
Varnamtown	No USGS data, approximate highest BFE = 12 ft
New Hanover County	No USGS data, approximate highest BFE = 37.9 ft
Carolina Beach	No USGS data, approximate highest BFE = 13 ft
Kure Beach	No USGS data, approximate highest BFE = 19 ft
Wilmington	No USGS data, approximate highest BFE = 36.8 ft
Wrightsville Beach	No USGS data, approximate highest BFE = 16 ft
Onslow County	**18.99 ft** (20.39 ft NAVD88 Datum - 1.4 ft, 10/1/2010, USGS)
Holly Ridge	No USGS data, approximate highest BFE = 44.6 ft
Jacksonville	No USGS data, approximate highest BFE = 39.8 ft
North Topsail Beach	No USGS data, approximate highest BFE = 16 ft
Richlands	No USGS data, approximate highest BFE = 30.1 ft
Swansboro	No USGS data, approximate highest BFE = 12 ft
Pender County	**10.57 ft** (11.54 ft NAVD88 Datum - 0.97 ft, 10/13/2005, USGS)
Atkinson	No USGS data, approximate highest BFE = 49.5 ft
Burgaw	**10.57 ft** (11.54 ft NAVD88 Datum - 0.97 ft, 10/13/2005, USGS)
St. Helena	No USGS data, approximate highest BFE = 56.6 ft
Surf City	No USGS data, approximate highest BFE = 29.4 ft
Topsail Beach	No USGS data, approximate highest BFE = 13 ft
Watha	No USGS data, approximate highest BFE = 50.7 ft

Sources: USGS[1], NC FRIS[2]

[1] USGS Water Data: https://waterdata.usgs.gov/

[2] North Carolina Flood Risk Information System (FRIS): https://fris.nc.gov/

Atkinson - Flood Hazard Areas



Legend

- Major Roads
- Pender County Municipal Boundaries
- Pender County Boundaries

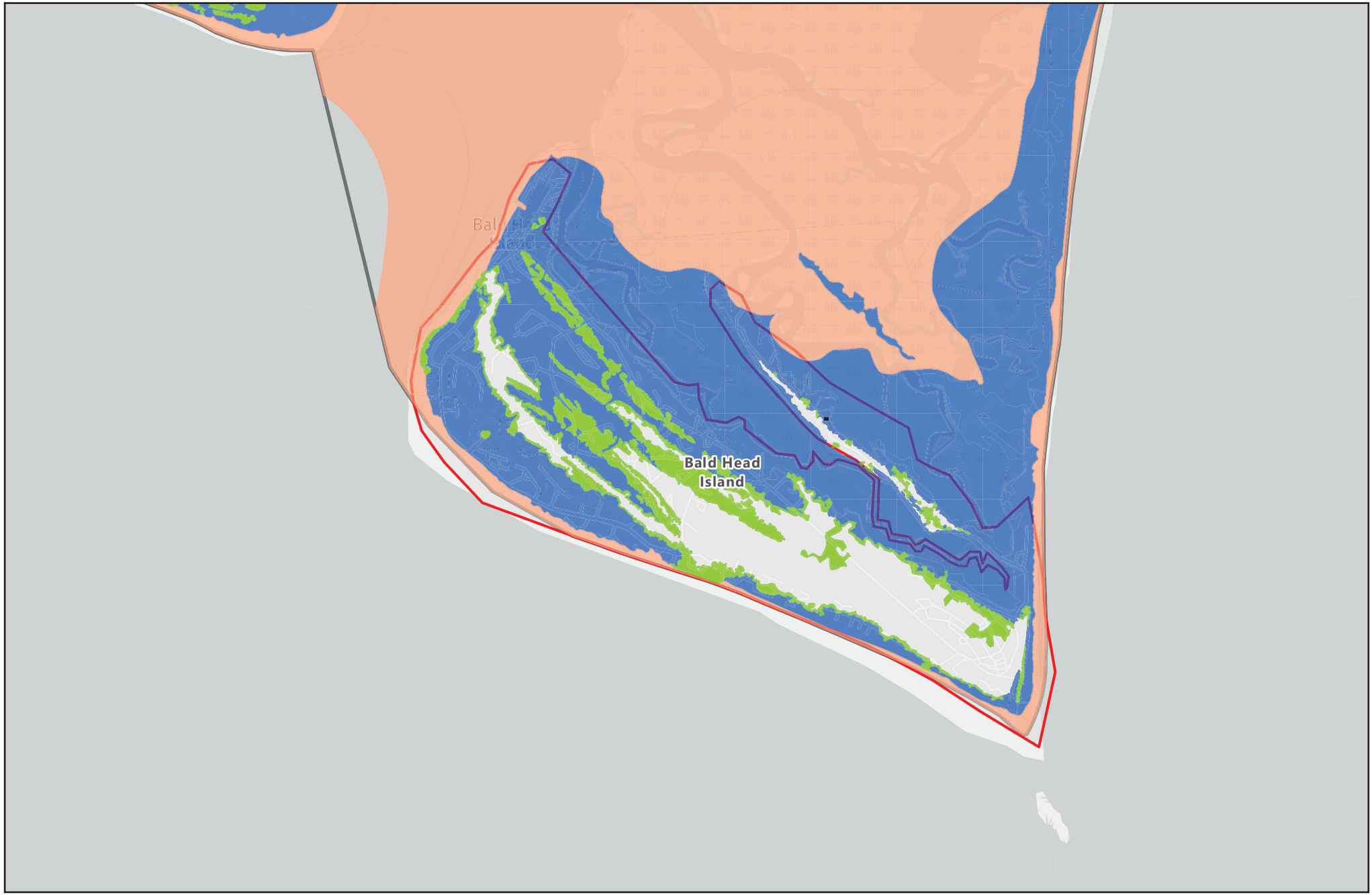
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.4 0.8 1.6 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37141C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Bald Head Island - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

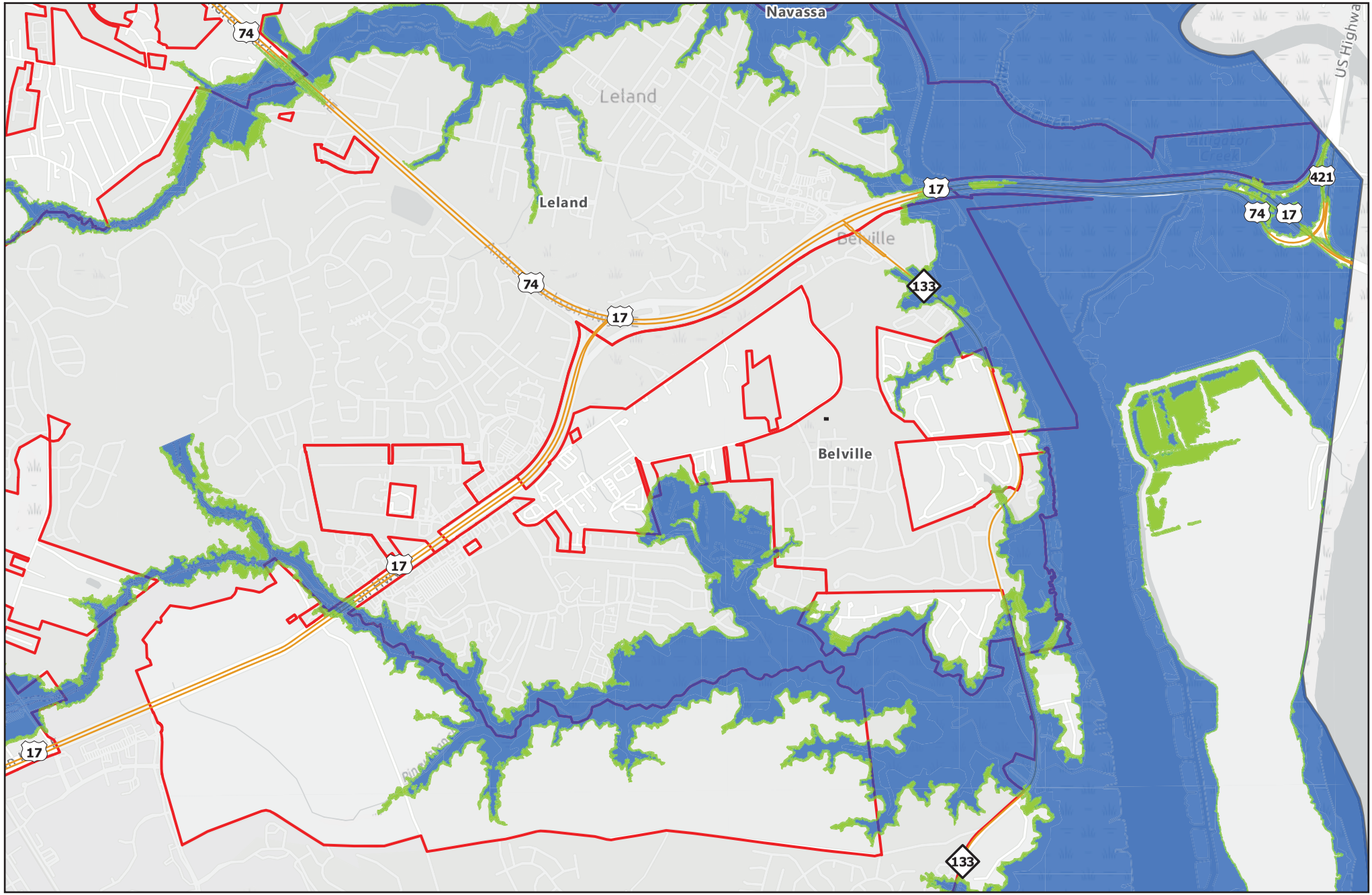
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Belville - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

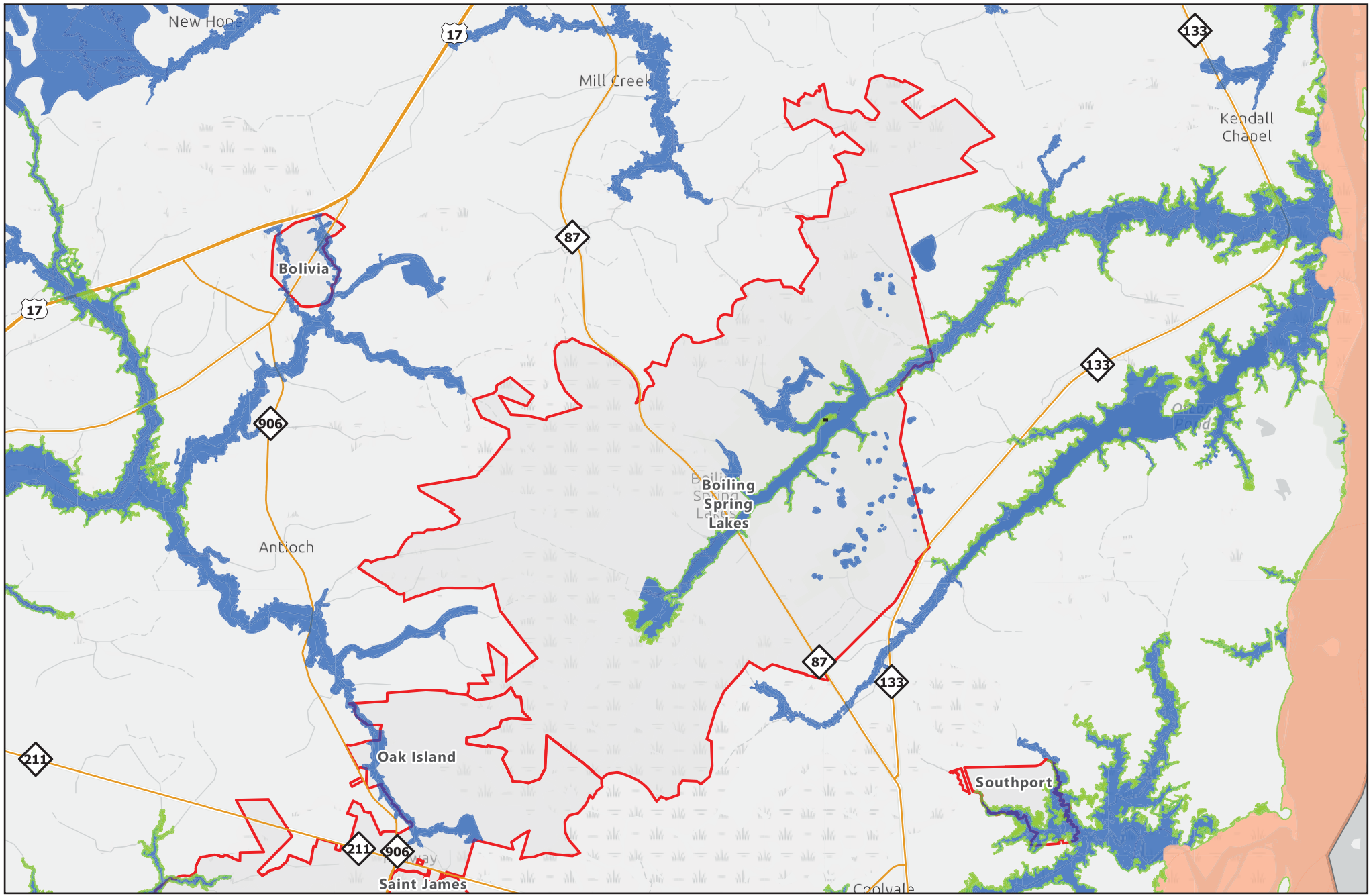
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.45 0.9 1.8 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Boiling Spring Lakes - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

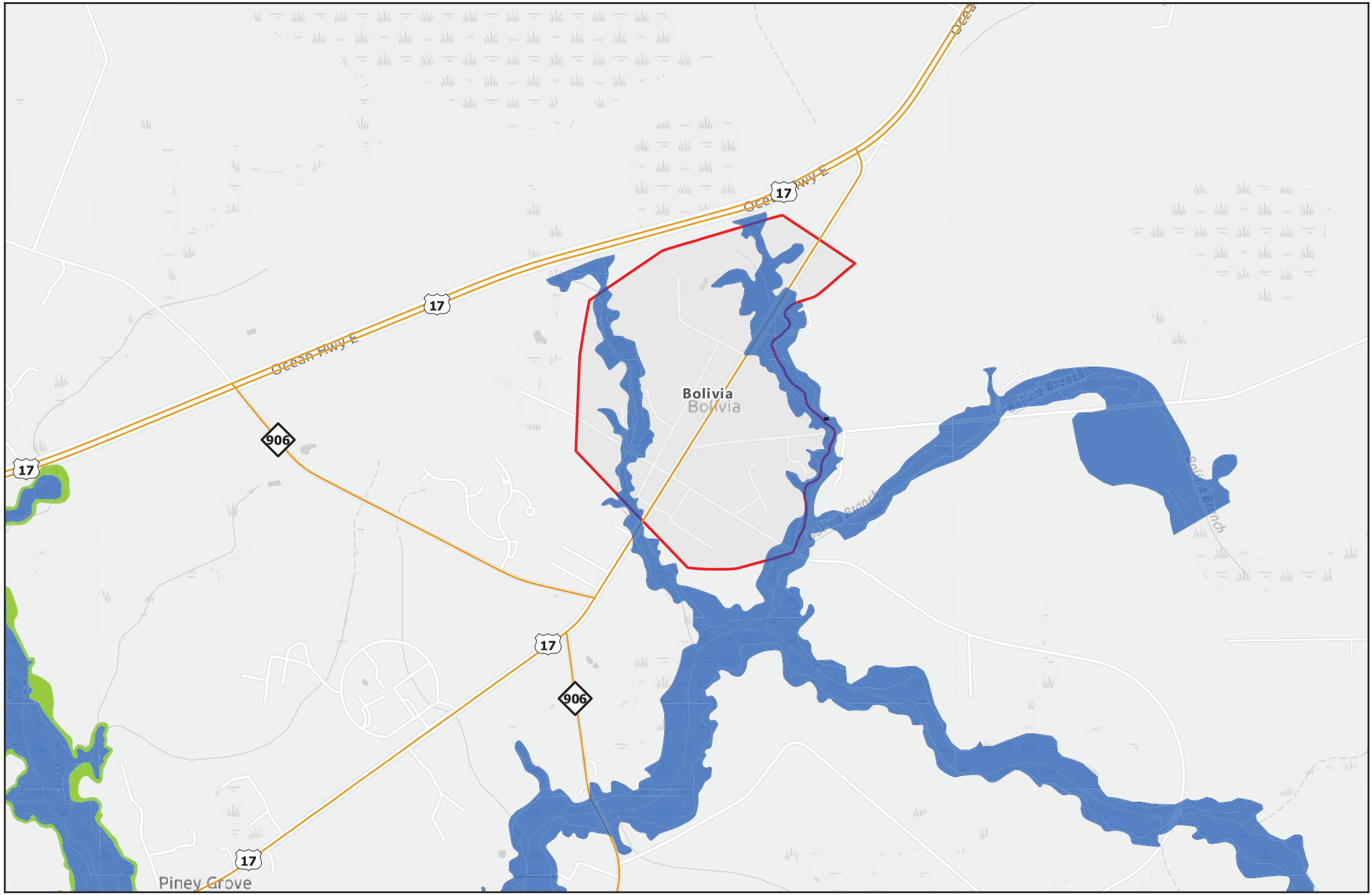
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 1.25 2.5 5 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Bolivia - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

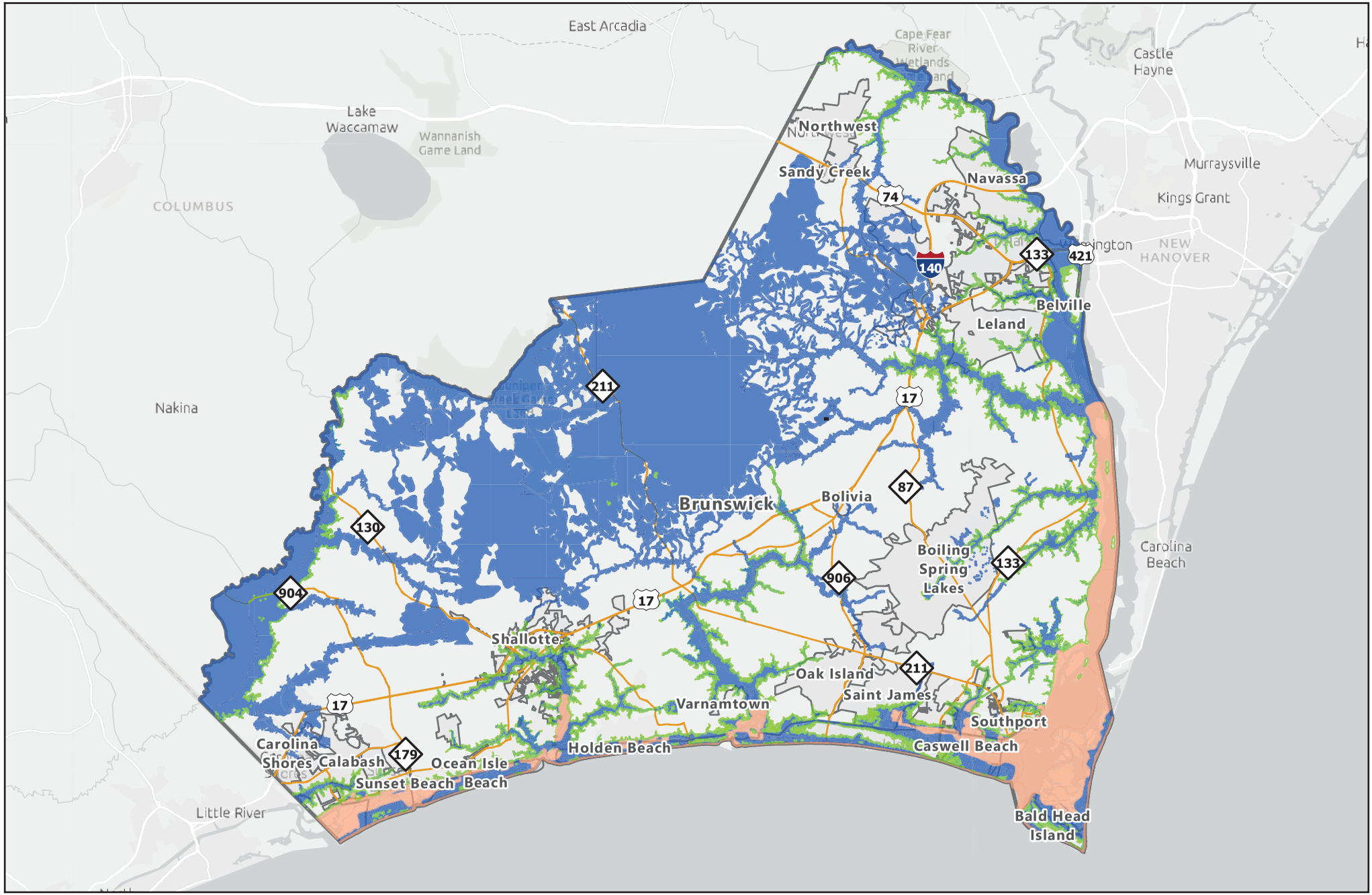
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.3 0.6 1.2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Brunswick County - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

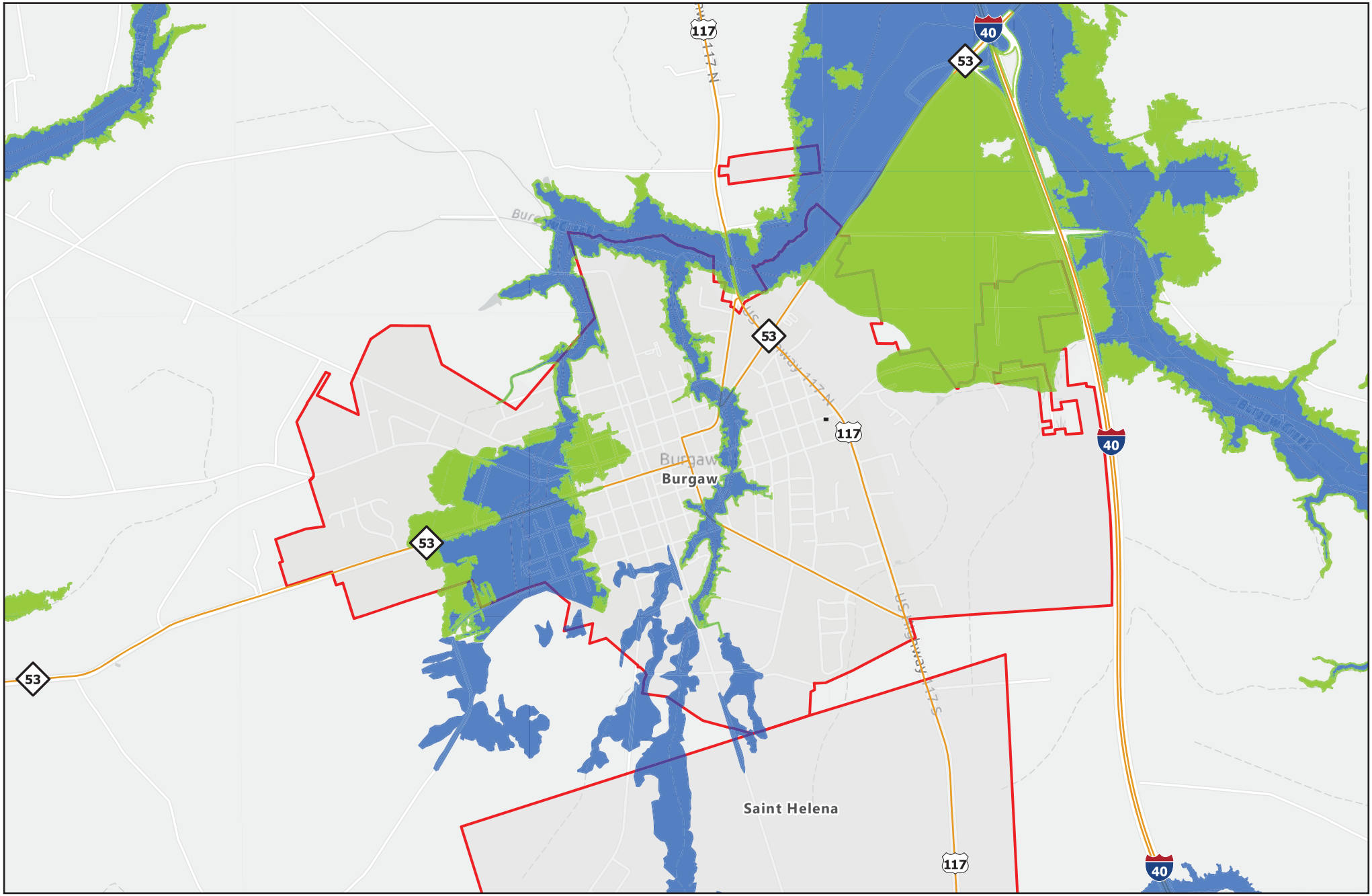
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 5 10 20 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Burgaw - Flood Hazard Areas



Legend

- Major Roads
- Pender County Municipal Boundaries
- Pender County Boundaries

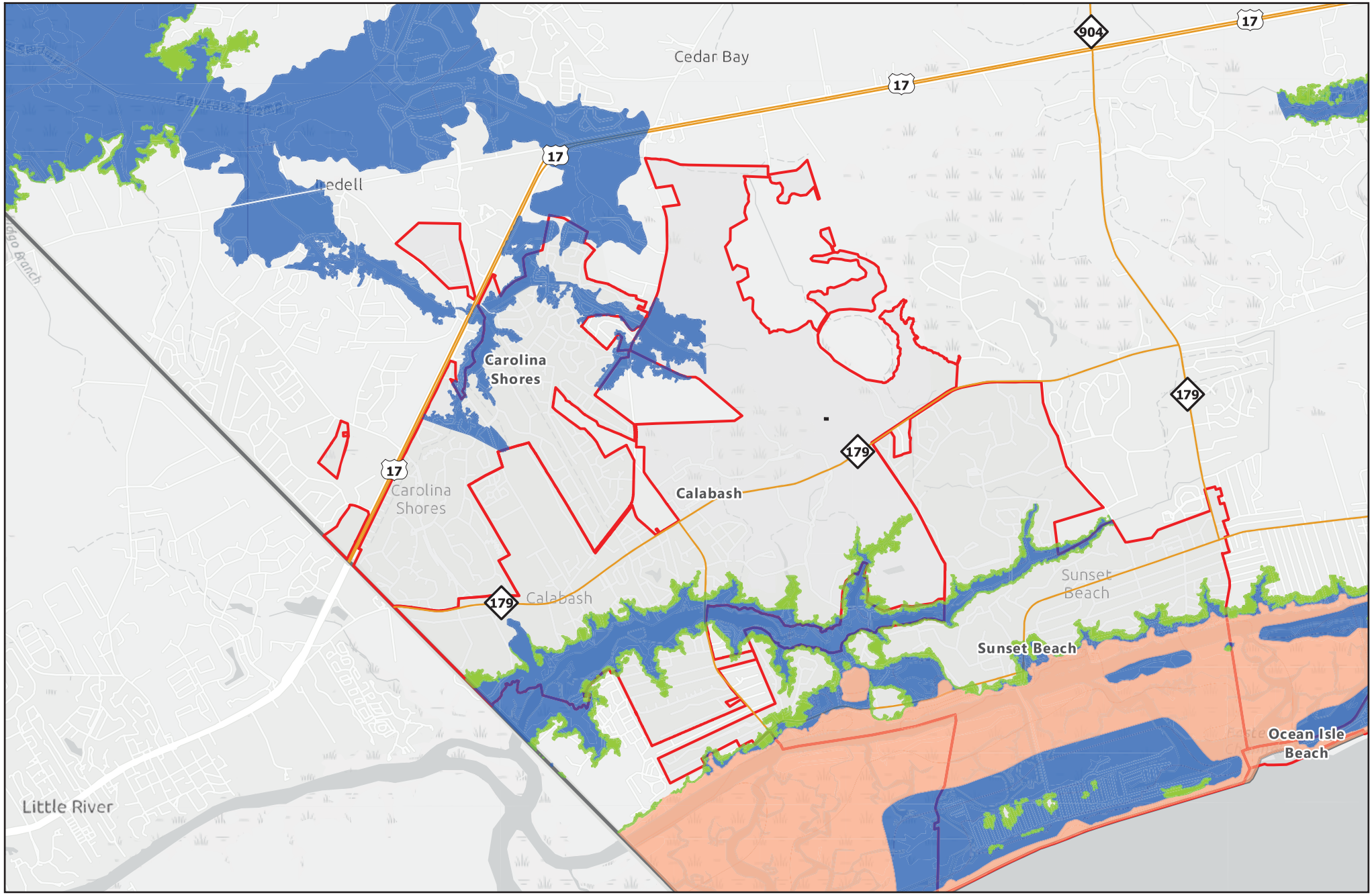
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.45 0.9 1.8 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37141C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Calabash - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

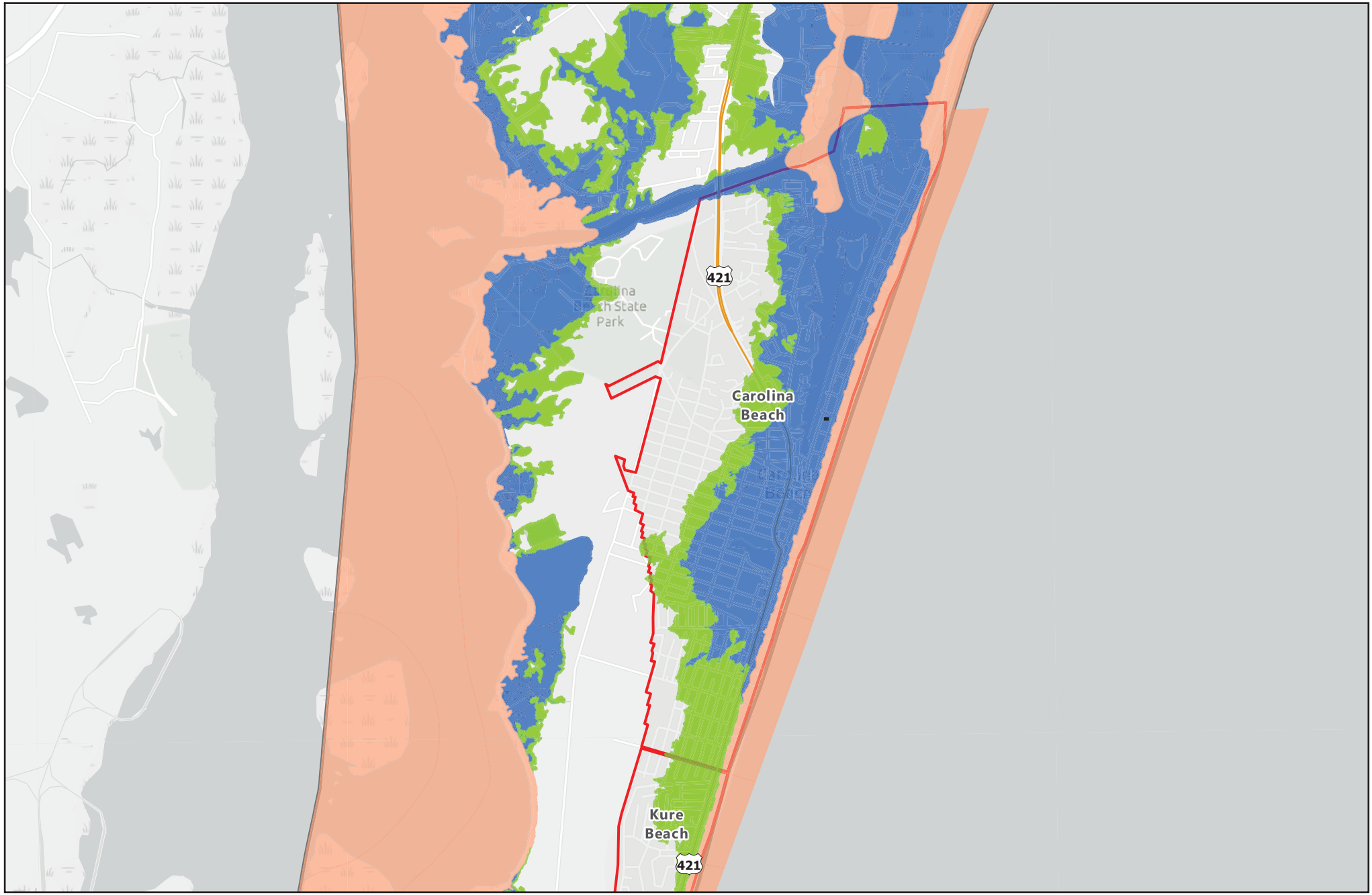
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Carolina Beach - Flood Hazard Areas



Legend

- Major Roads
- New Hanover County Municipal Boundaries
- New Hanover County Boundaries

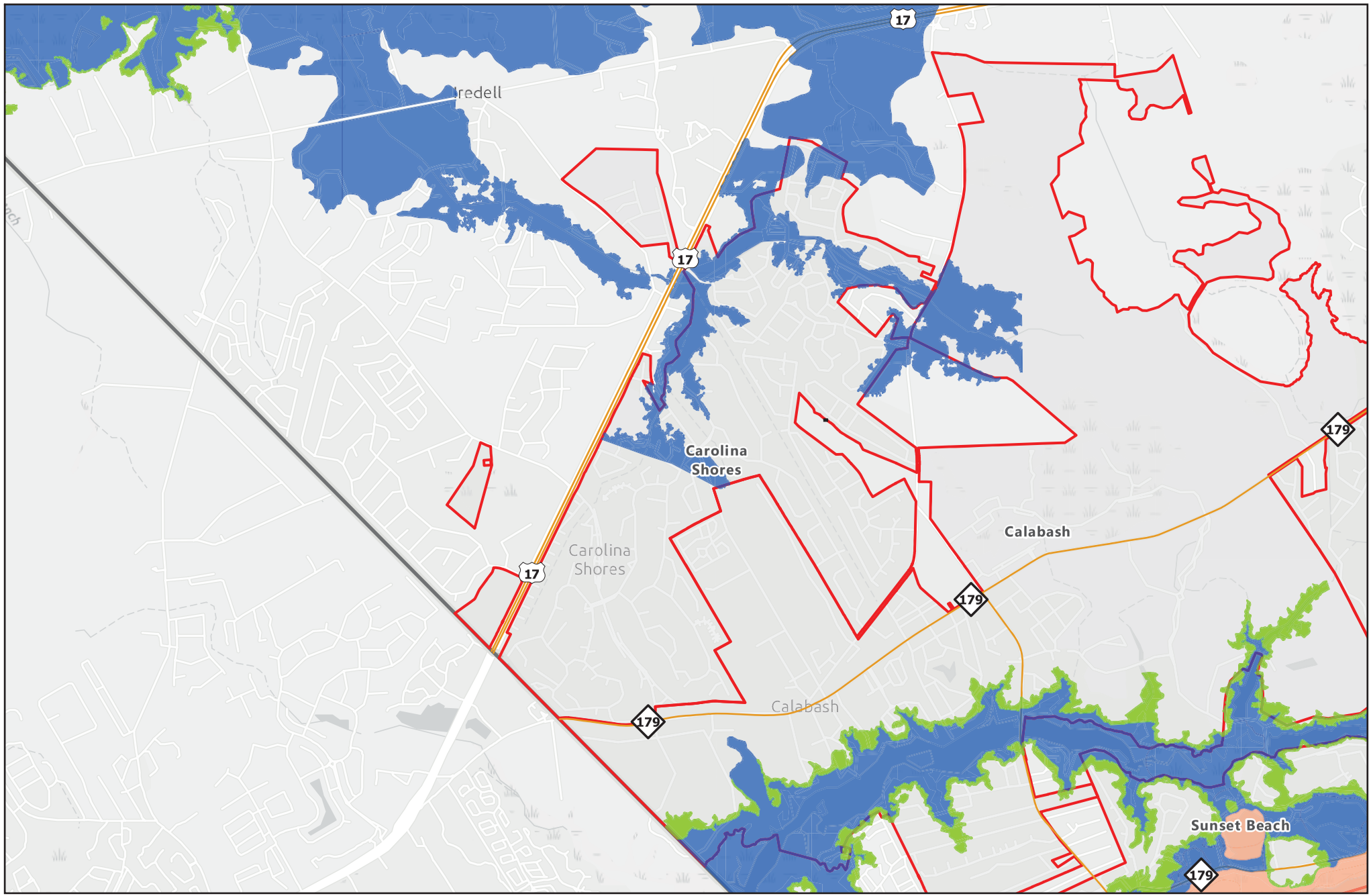
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37129C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Carolina Shores - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

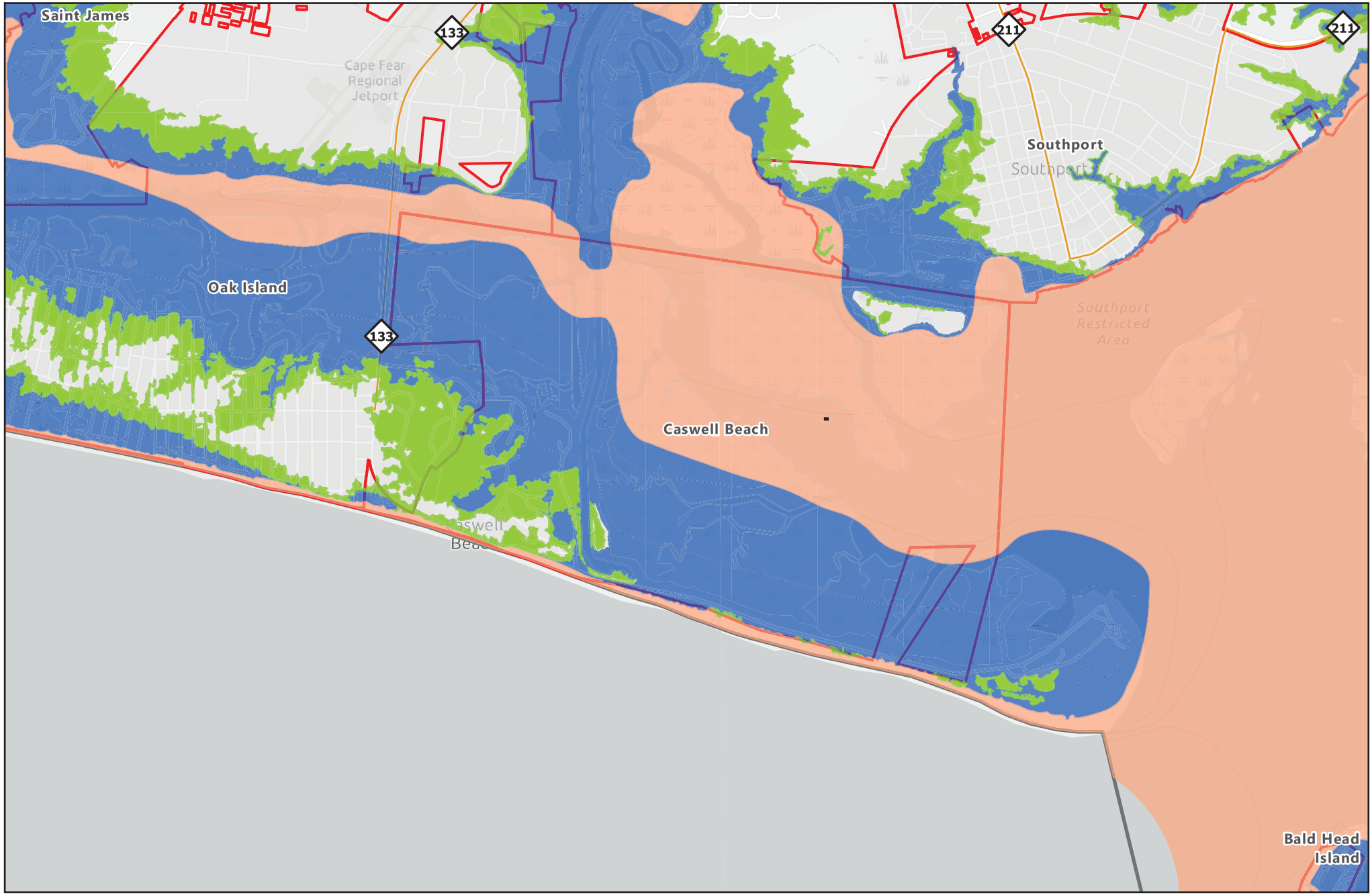
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Caswell Beach - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

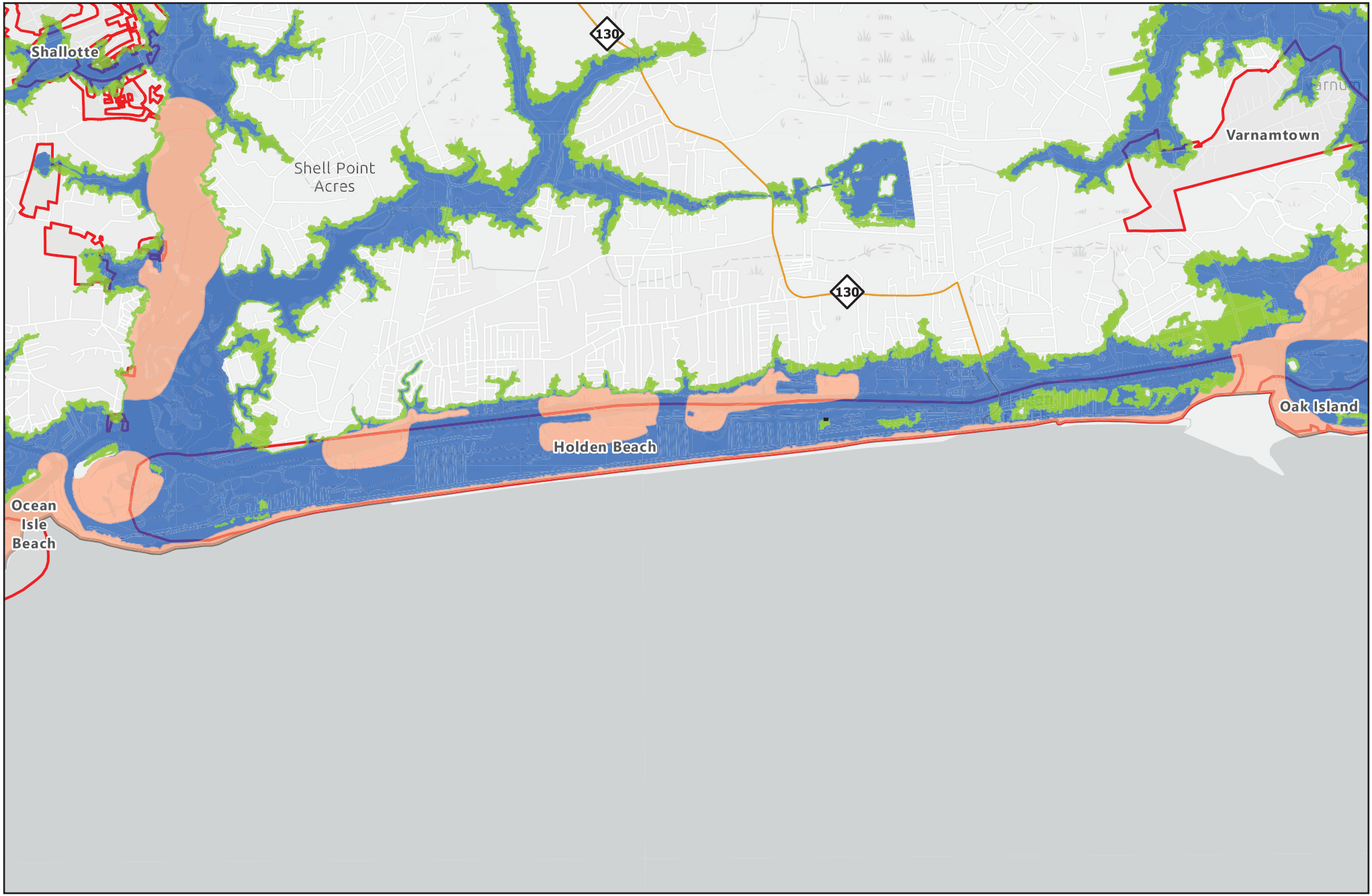
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Holden Beach - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

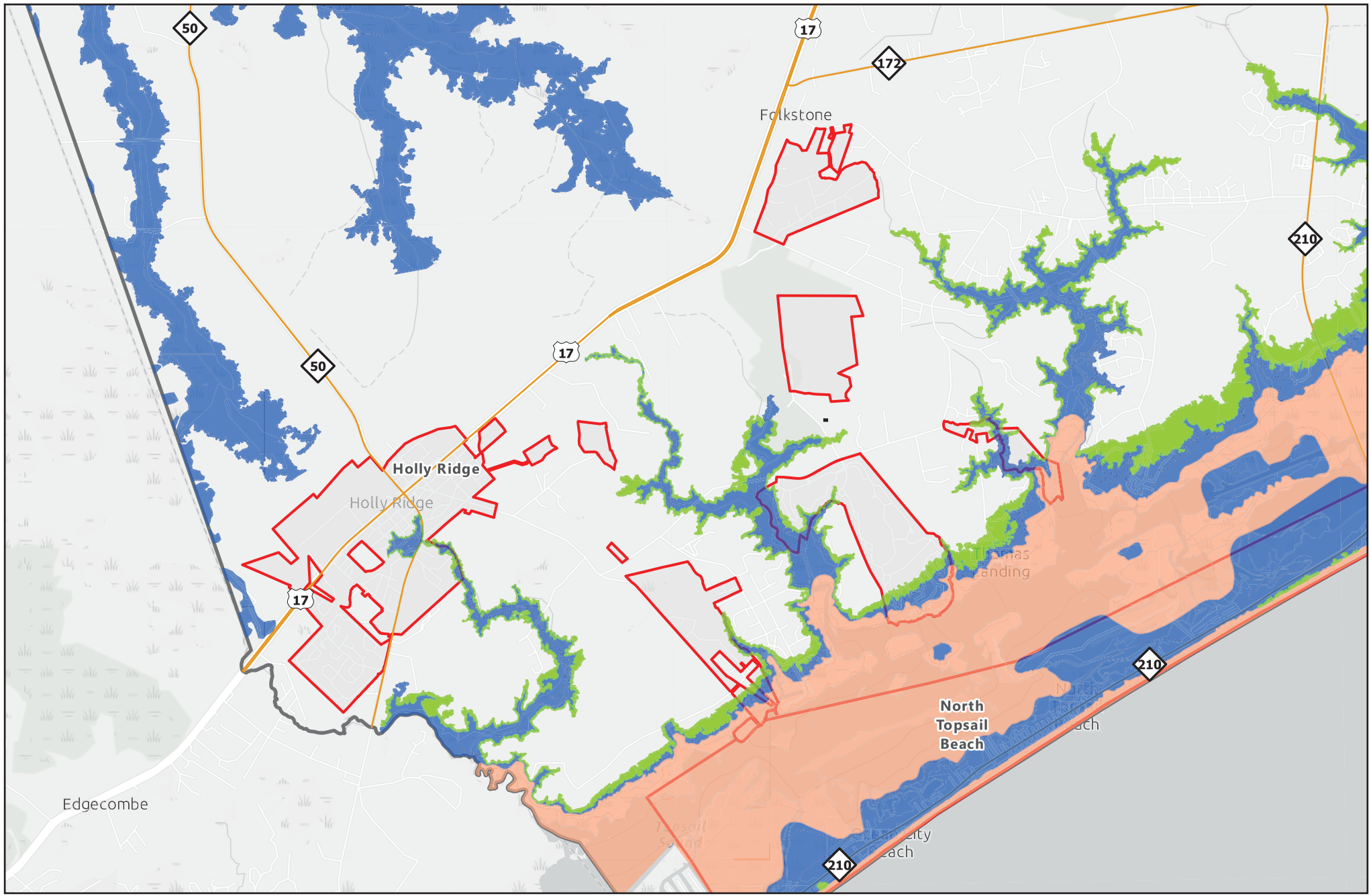
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Holly Ridge - Flood Hazard Areas



Legend

- Major Roads
- Onslow County Municipal Boundaries
- Onslow County Boundaries

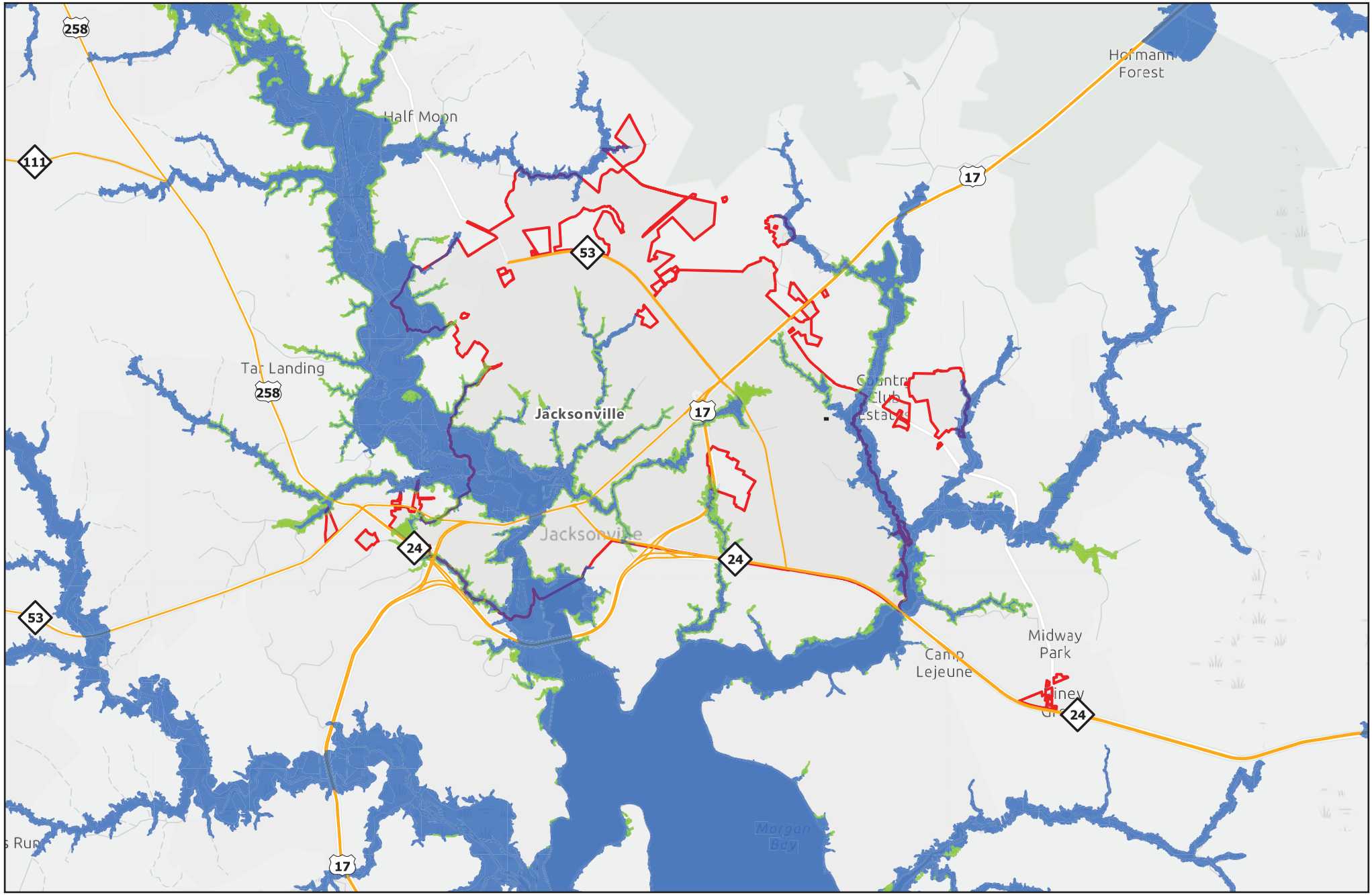
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37133C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: 1/14/2009

Jacksonville - Flood Hazard Areas



Legend

- Major Roads
- Onslow County Municipal Boundaries
- Onslow County Boundaries

Flood Zone

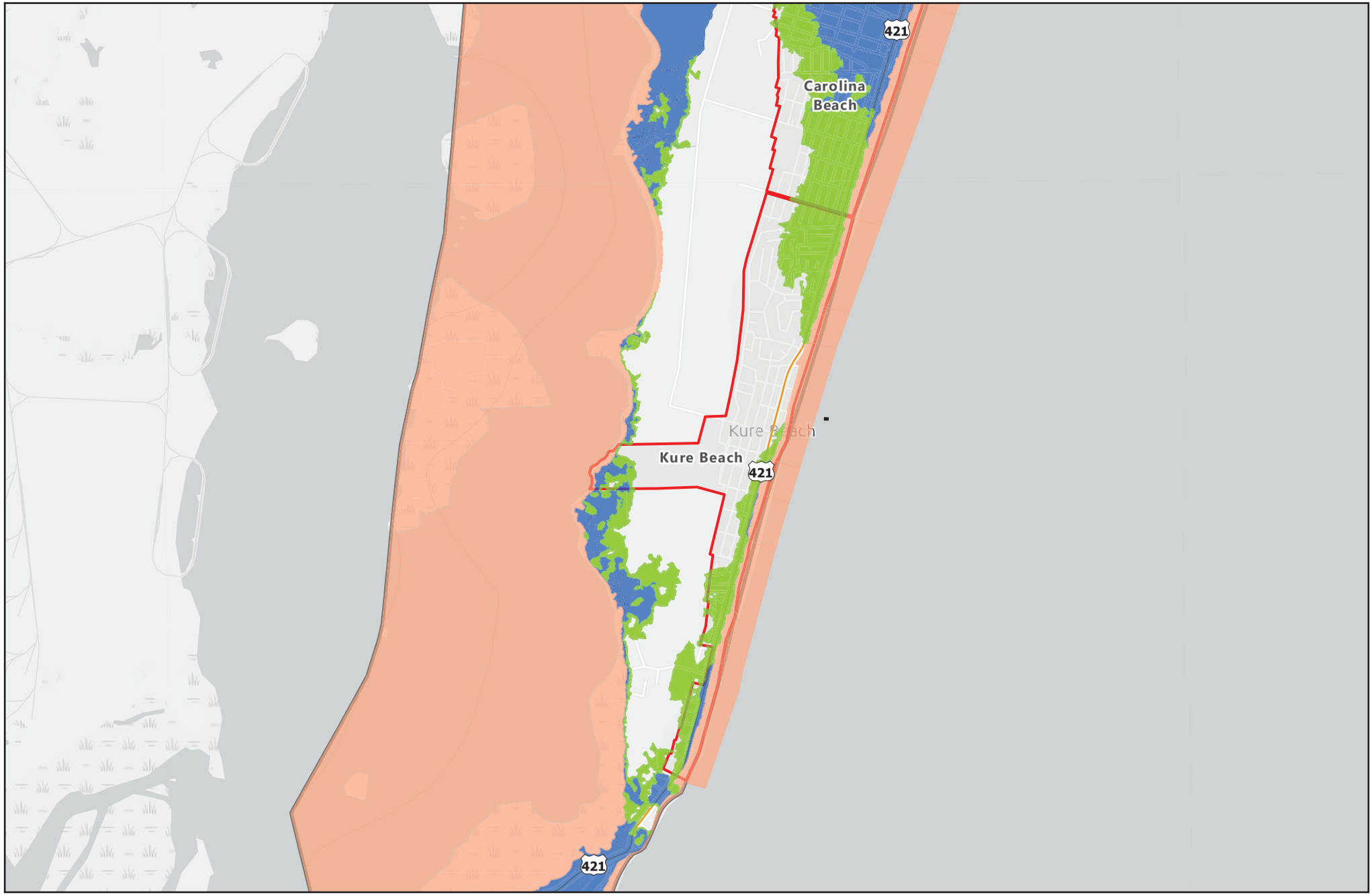
- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 1.25 2.5 5 Miles

N

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37133C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: 1/14/2009

Kure Beach - Flood Hazard Areas



Legend

- Major Roads
- New Hanover County Municipal Boundaries
- New Hanover County Boundaries

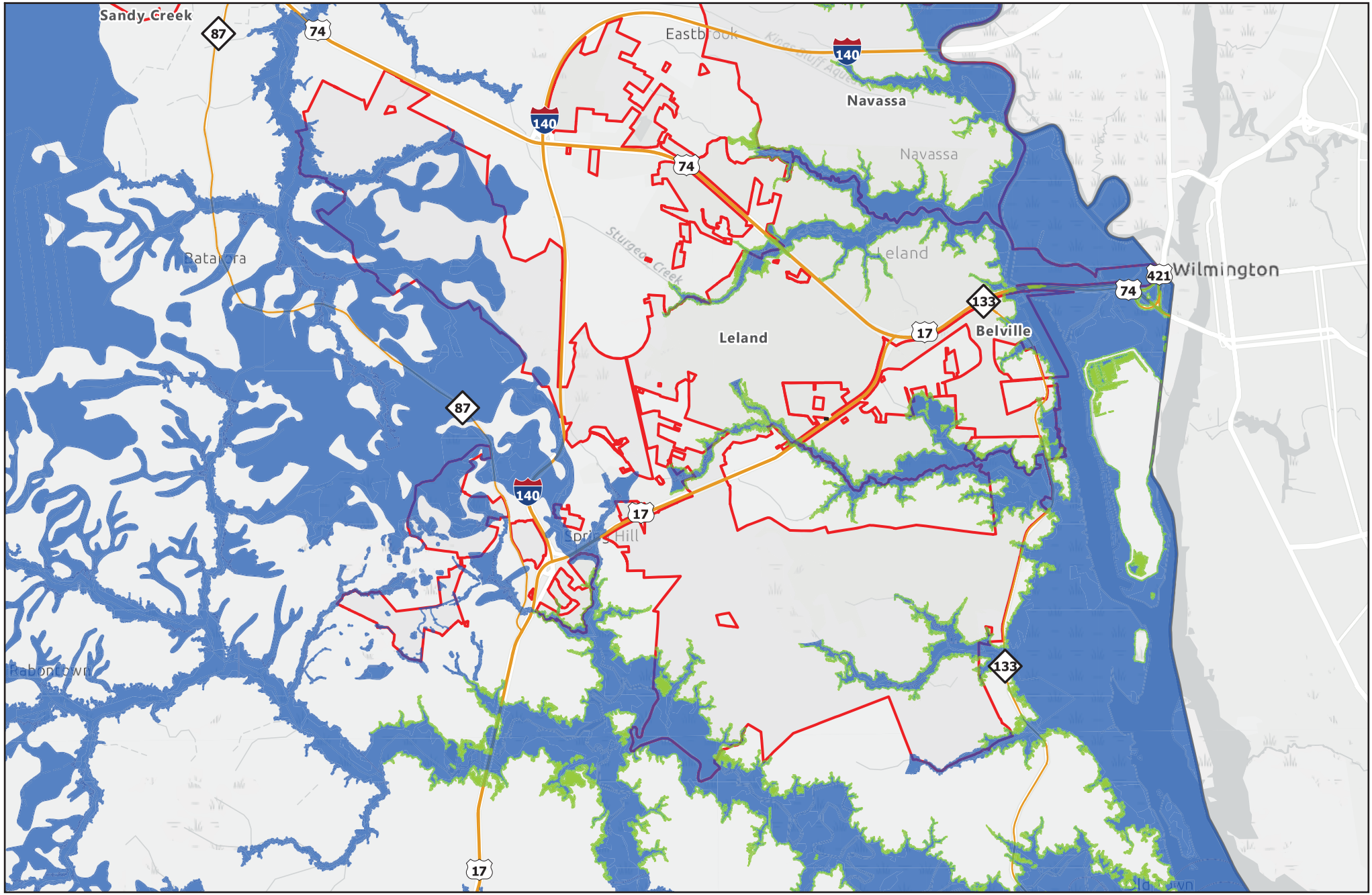
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37129C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Leland - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

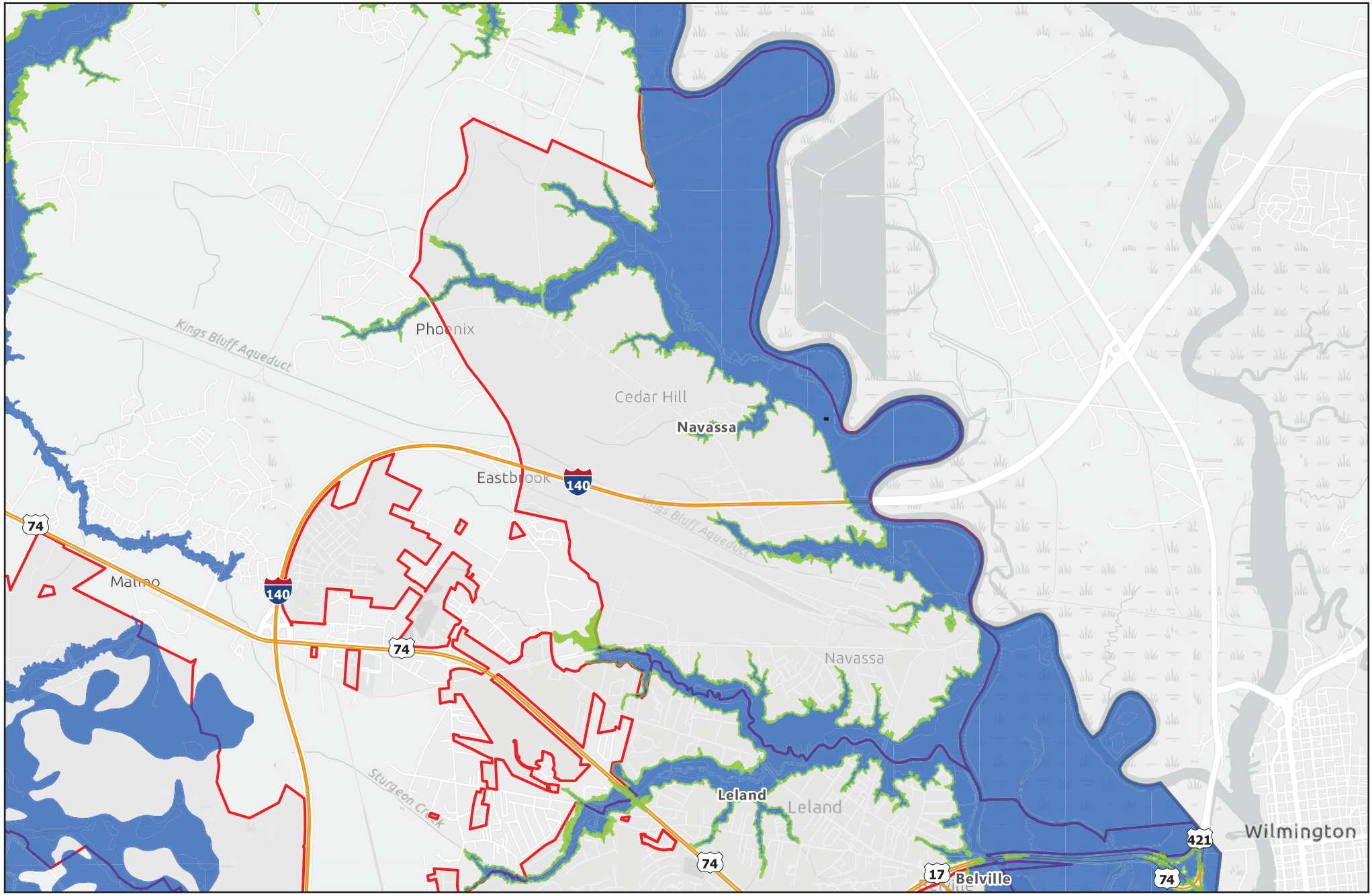
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 1.25 2.5 5 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Navassa - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

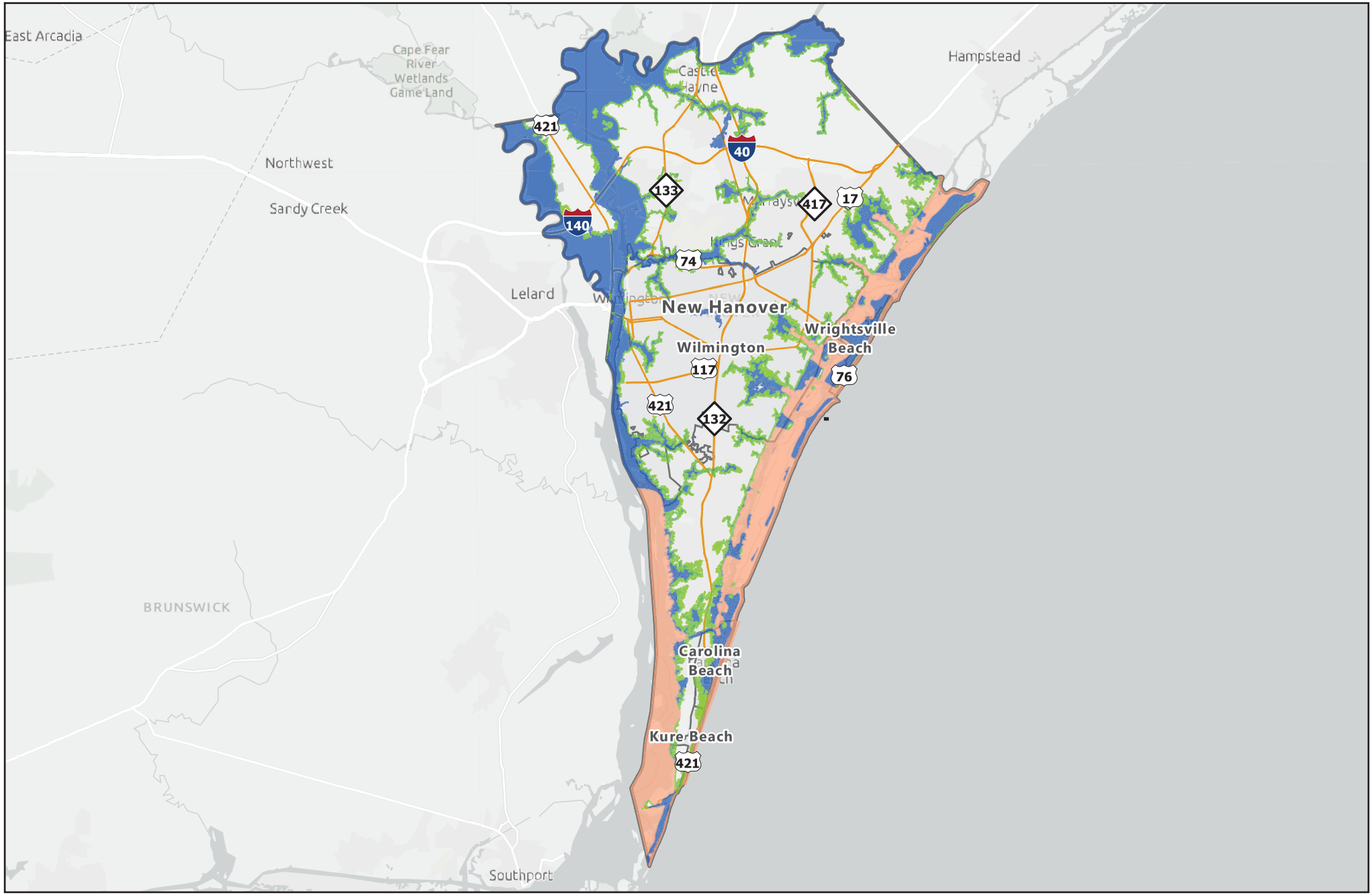
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

New Hanover County - Flood Hazard Areas



Legend

- Major Roads
- New Hanover County Municipal Boundaries
- New Hanover County Boundaries

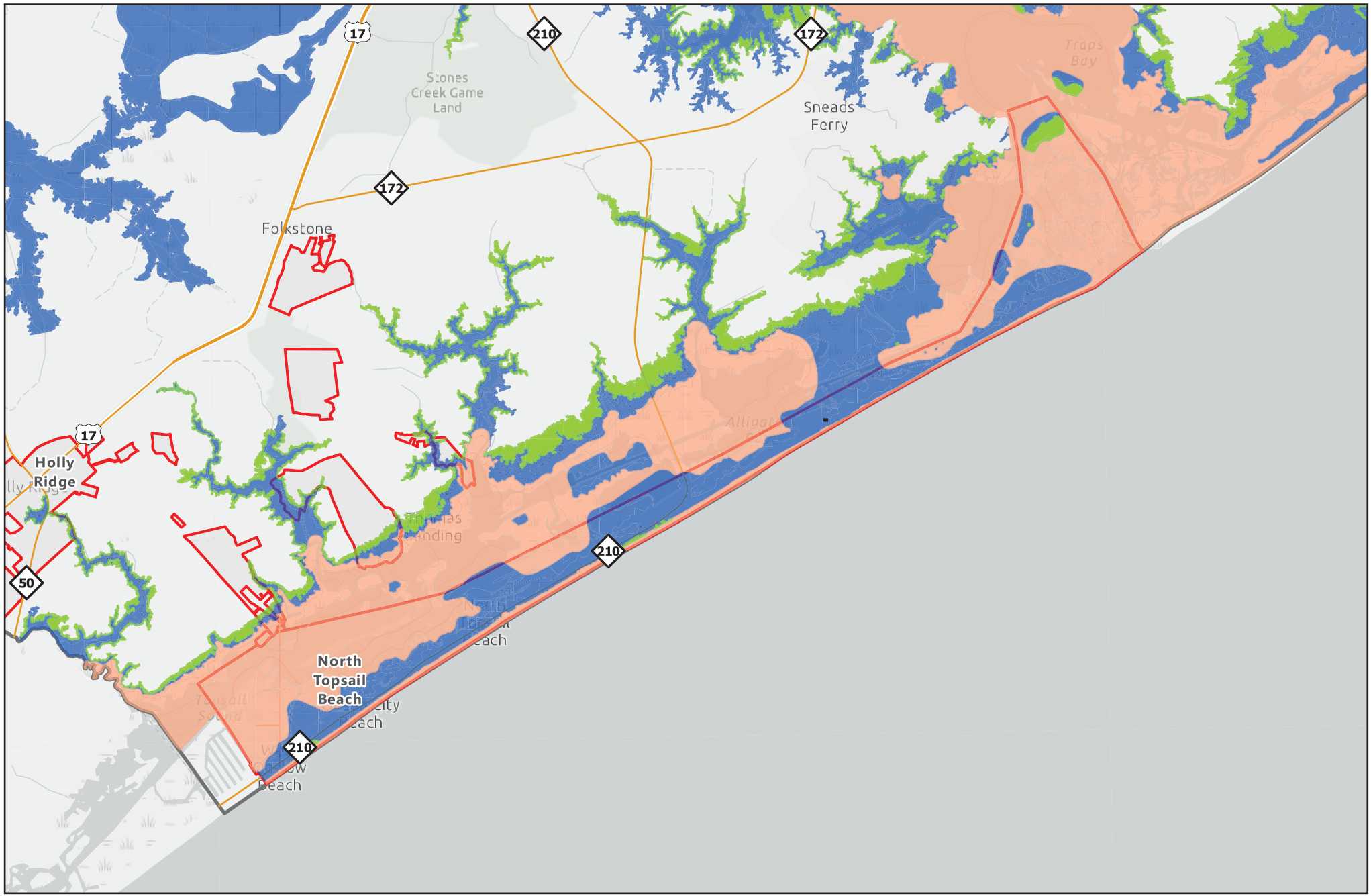
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 4 8 16 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37129C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

North Topsail Beach - Flood Hazard Areas



Legend

- Major Roads
- Onslow County Municipal Boundaries
- Onslow County Boundaries

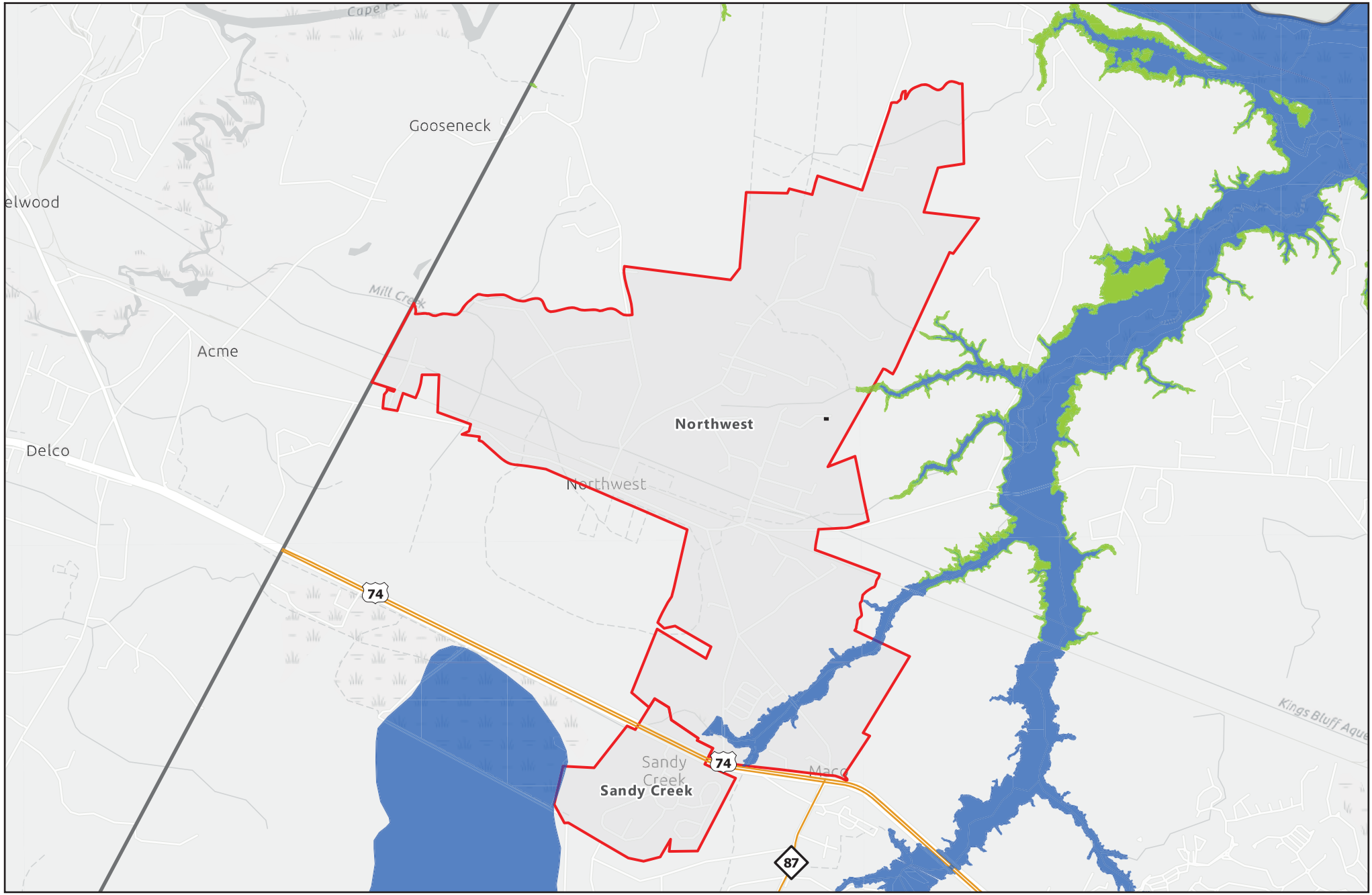
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 1.25 2.5 5 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37133C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: 1/14/2009

Northwest - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

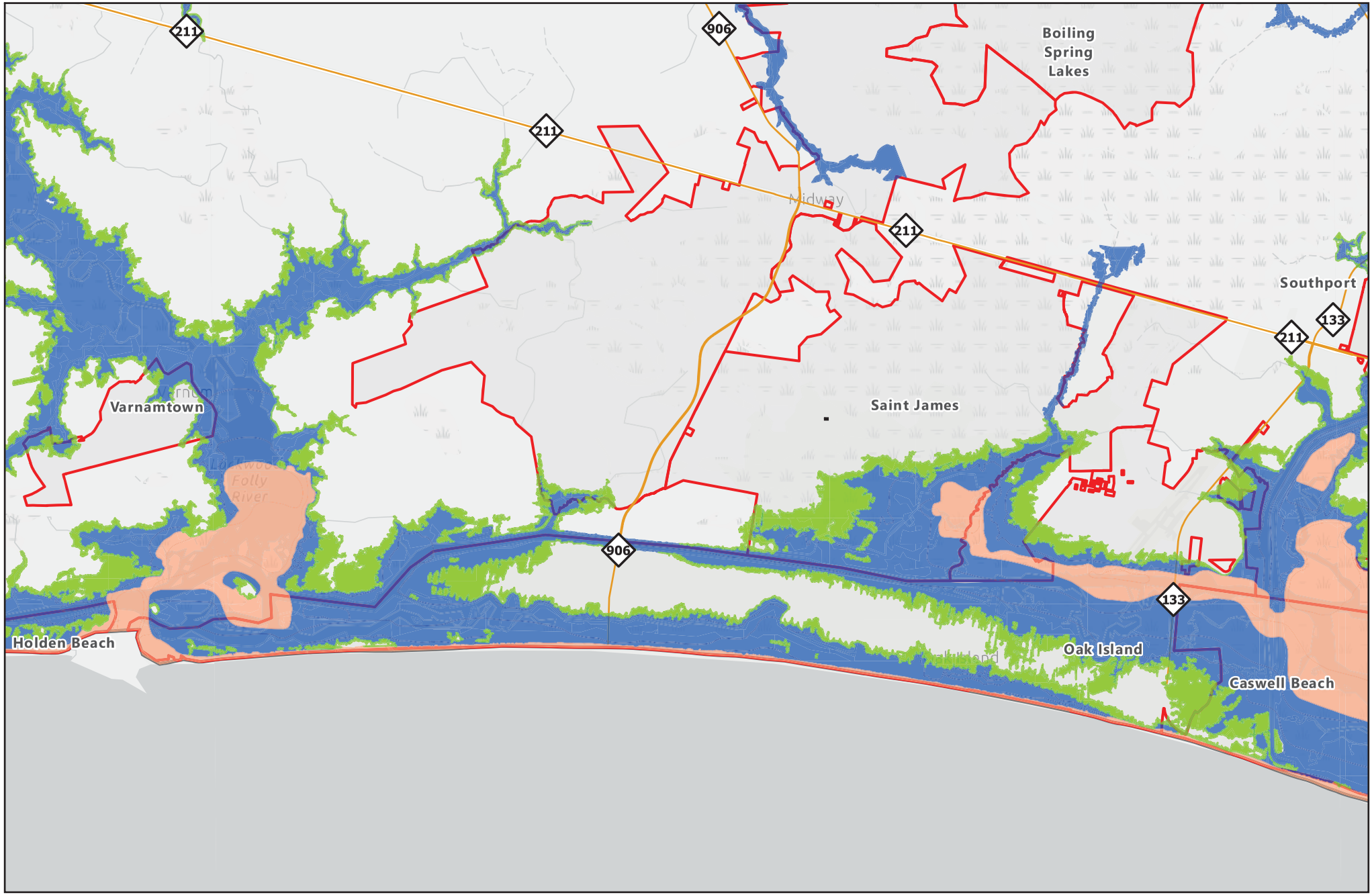
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Oak Island - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

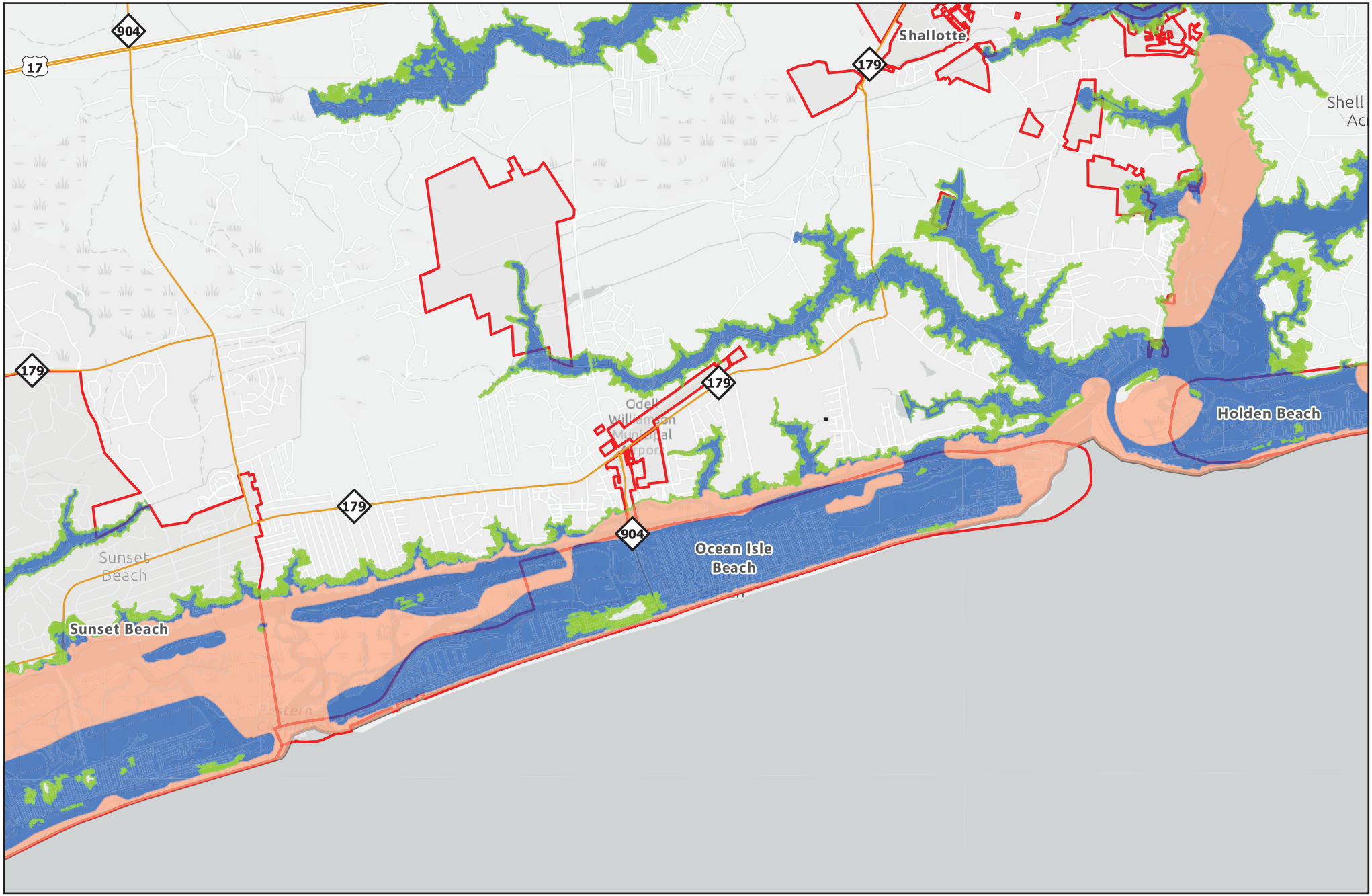
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 1 2 4 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Ocean Isle Beach - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

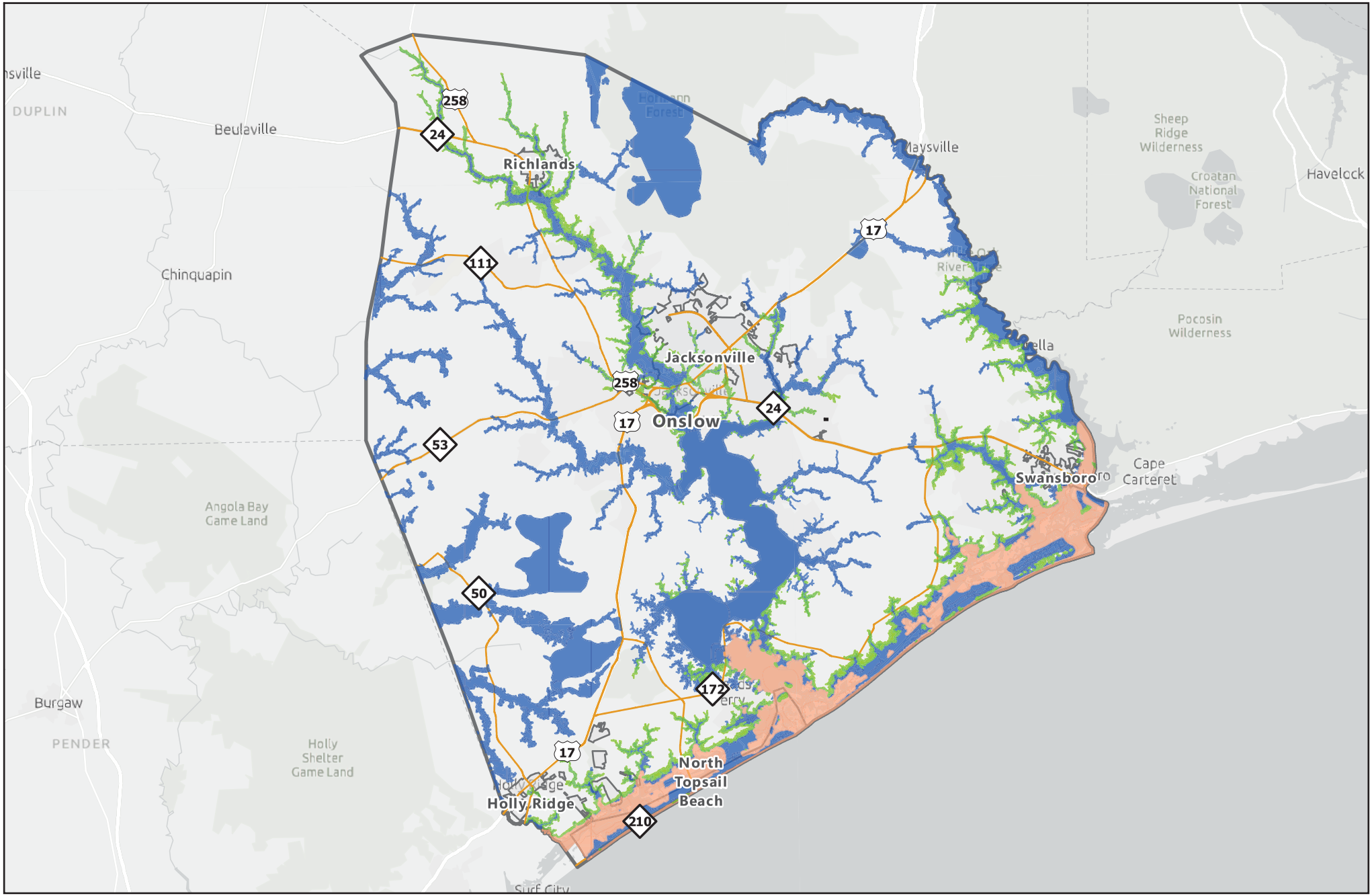
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Onslow County - Flood Hazard Areas



Legend

- Major Roads
- Onslow County Municipal Boundaries
- Onslow County Boundaries

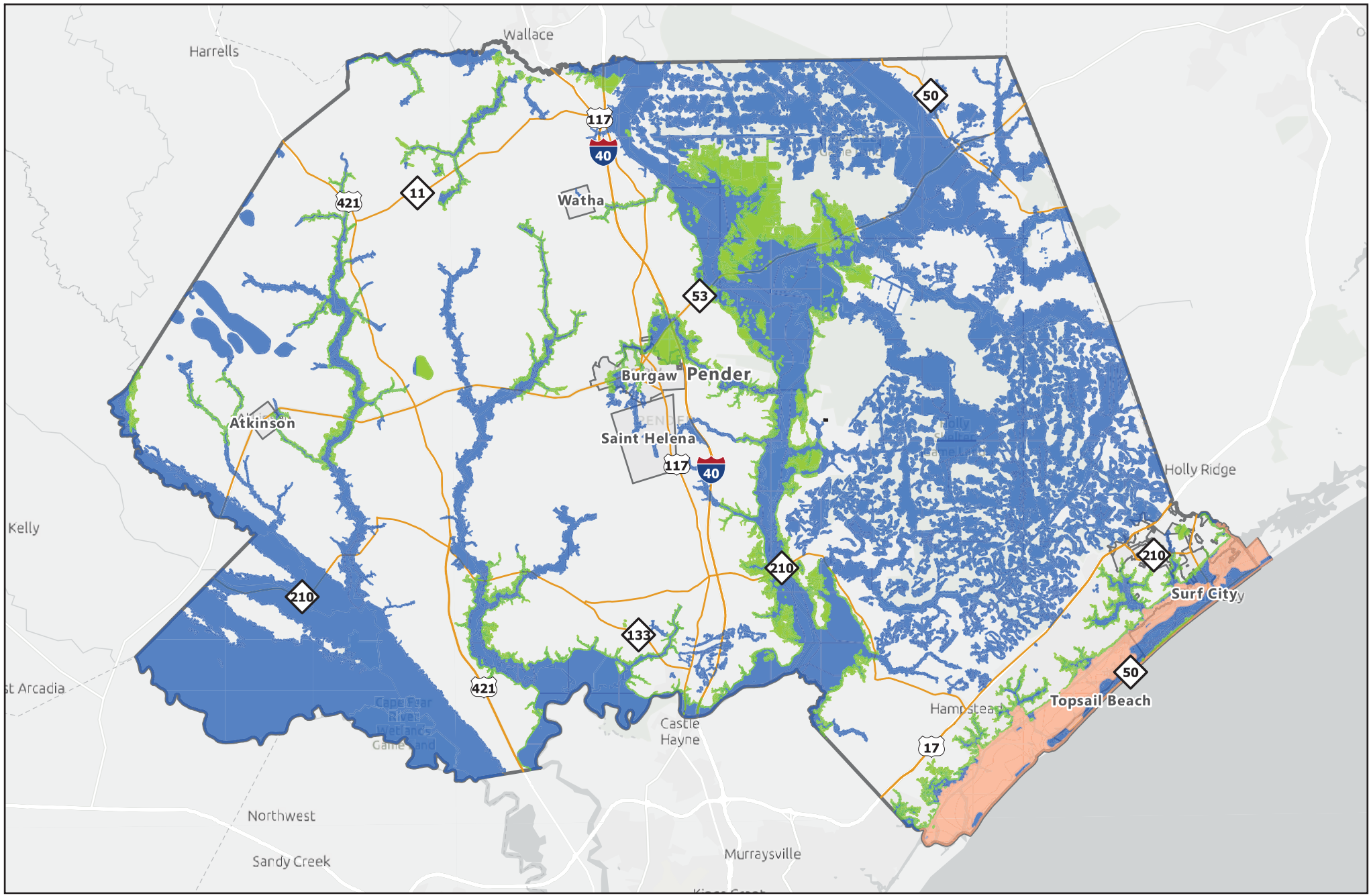
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 5 10 20 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37133C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: 1/14/2009

Pender County - Flood Hazard Areas



Legend

- Major Roads
- Pender County Municipal Boundaries
- Pender County Boundaries

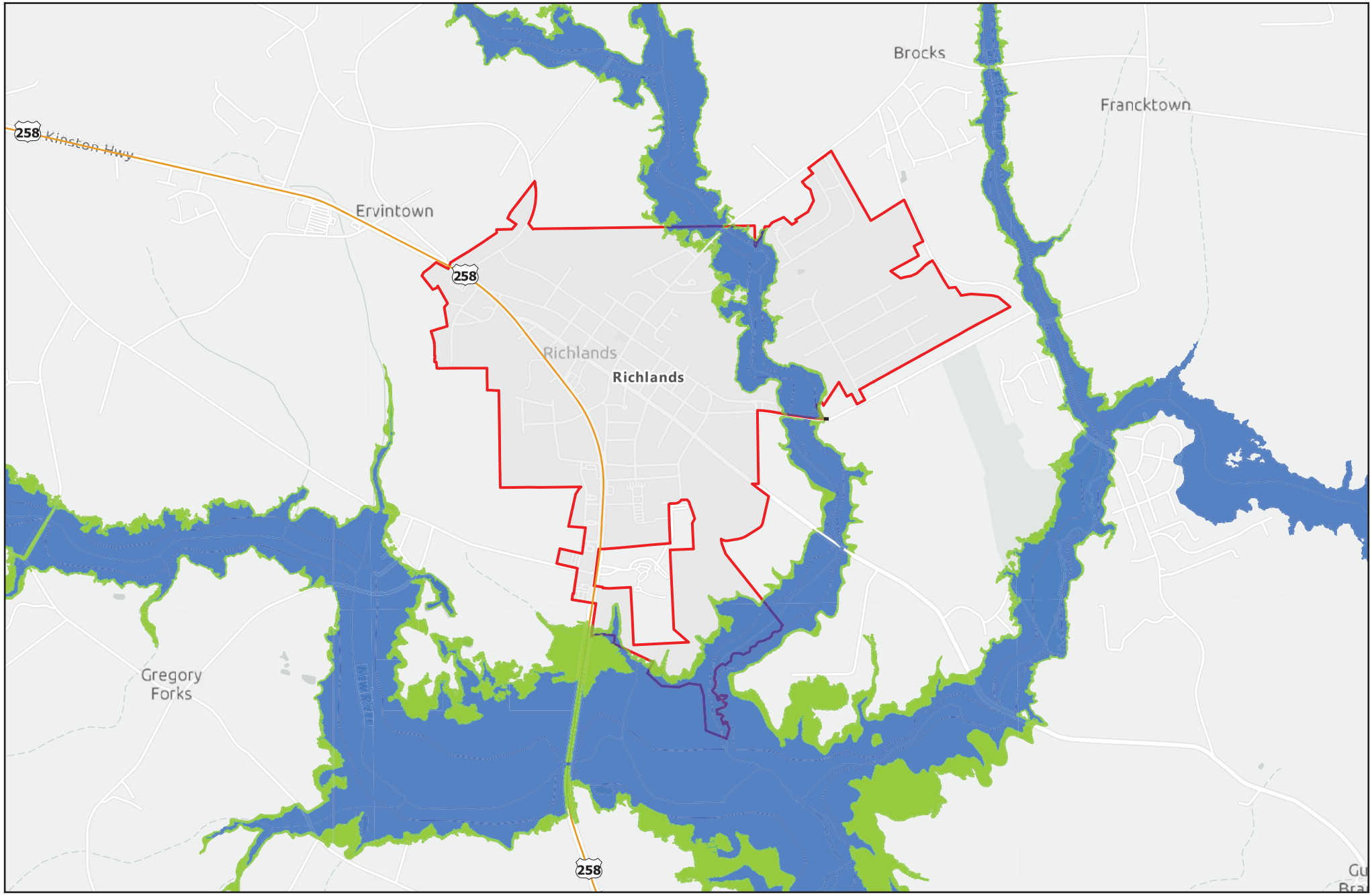
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 4 8 16 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37141C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Richlands - Flood Hazard Areas



Legend

- Major Roads
- Onslow County Municipal Boundaries
- Onslow County Boundaries

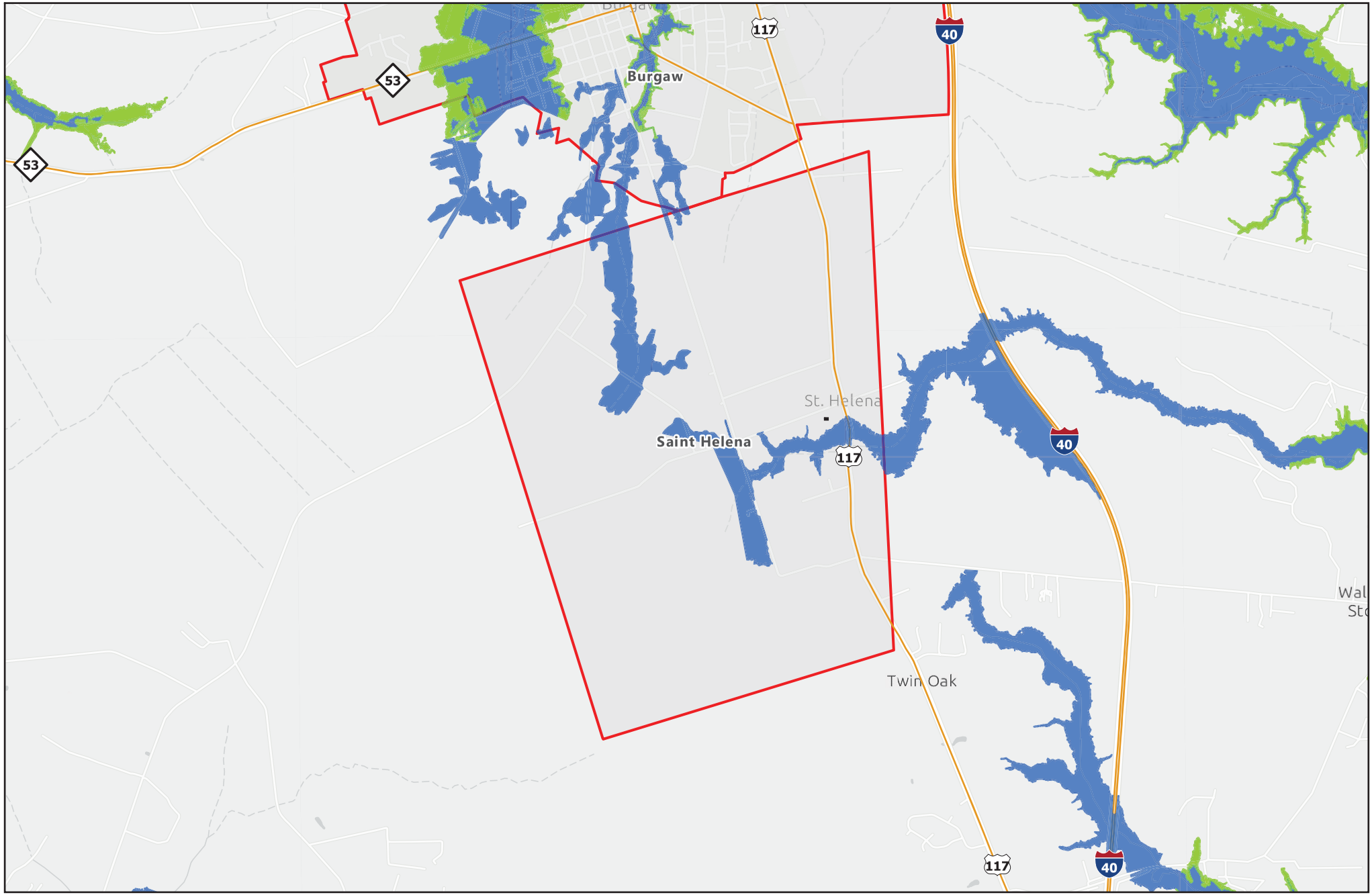
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.42 0.85 1.7 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37133C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: 1/14/2009

Saint Helena - Flood Hazard Areas



Legend

- Major Roads
- Pender County Municipal Boundaries
- Pender County Boundaries

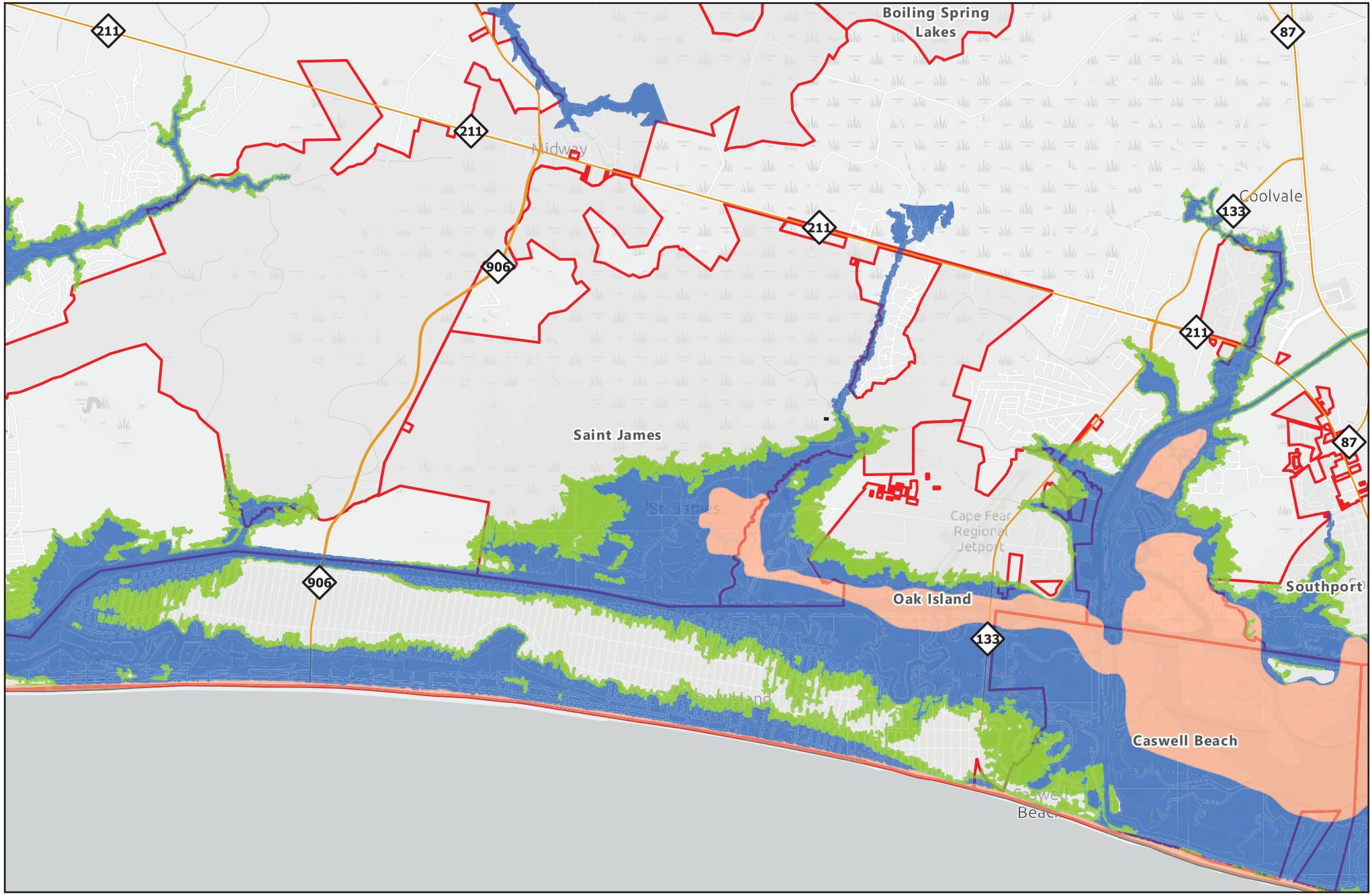
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37141C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Saint James - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Sandy Creek - Flood Hazard Areas

Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

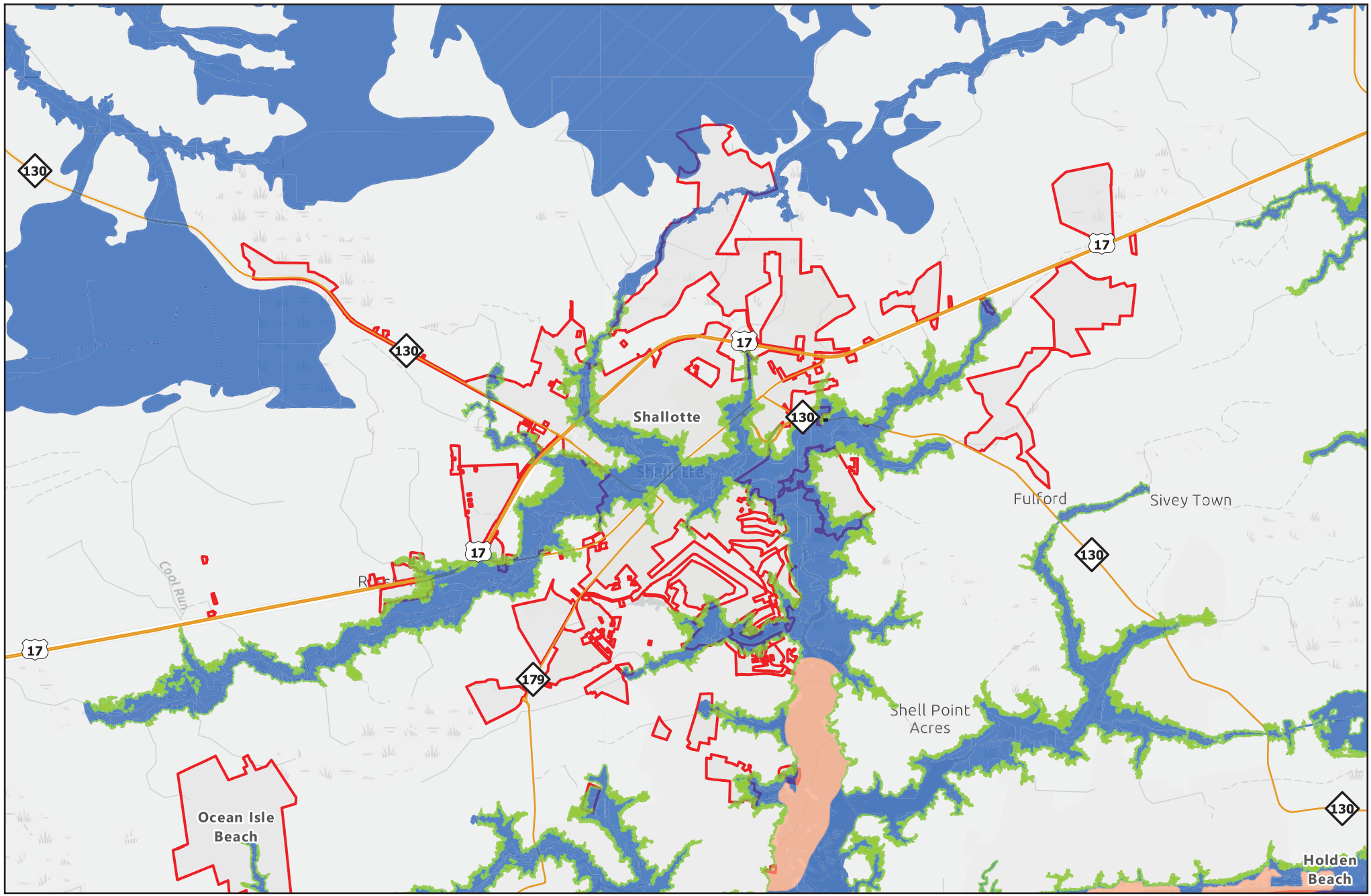
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.28 0.55 1.1 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Shallotte - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

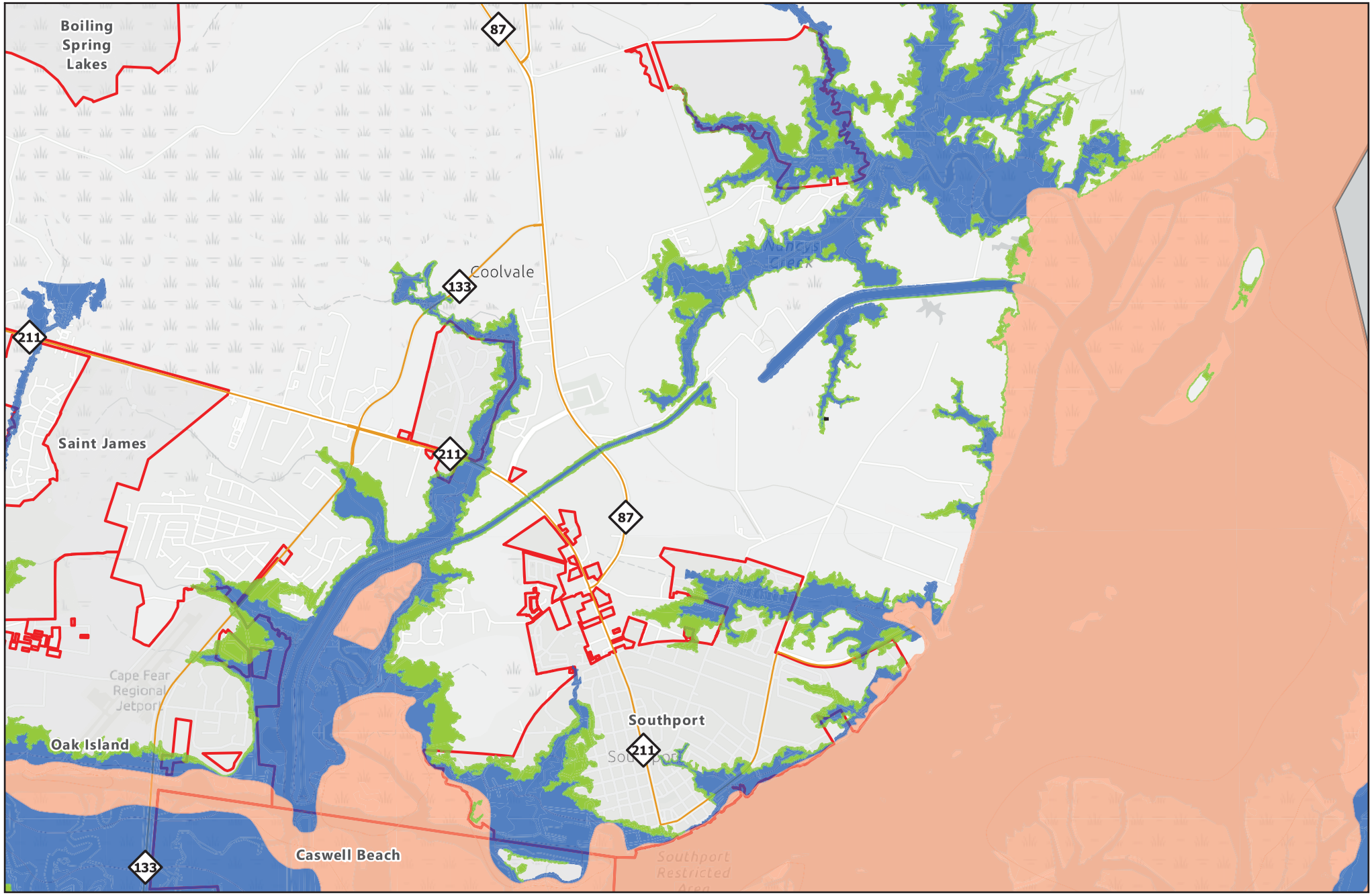
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 1 2 4 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Southport - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

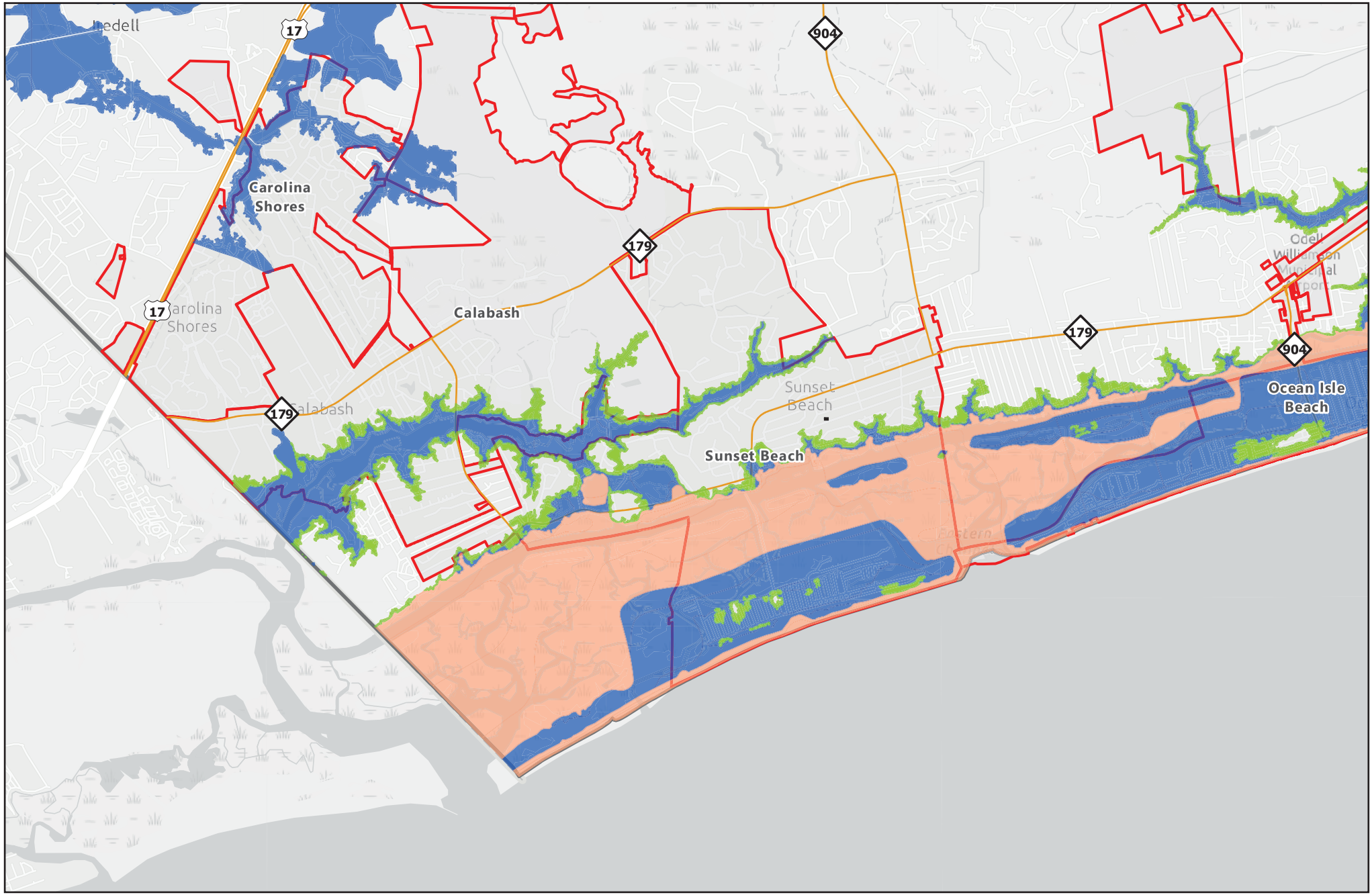
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Sunset Beach - Flood Hazard Areas



Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

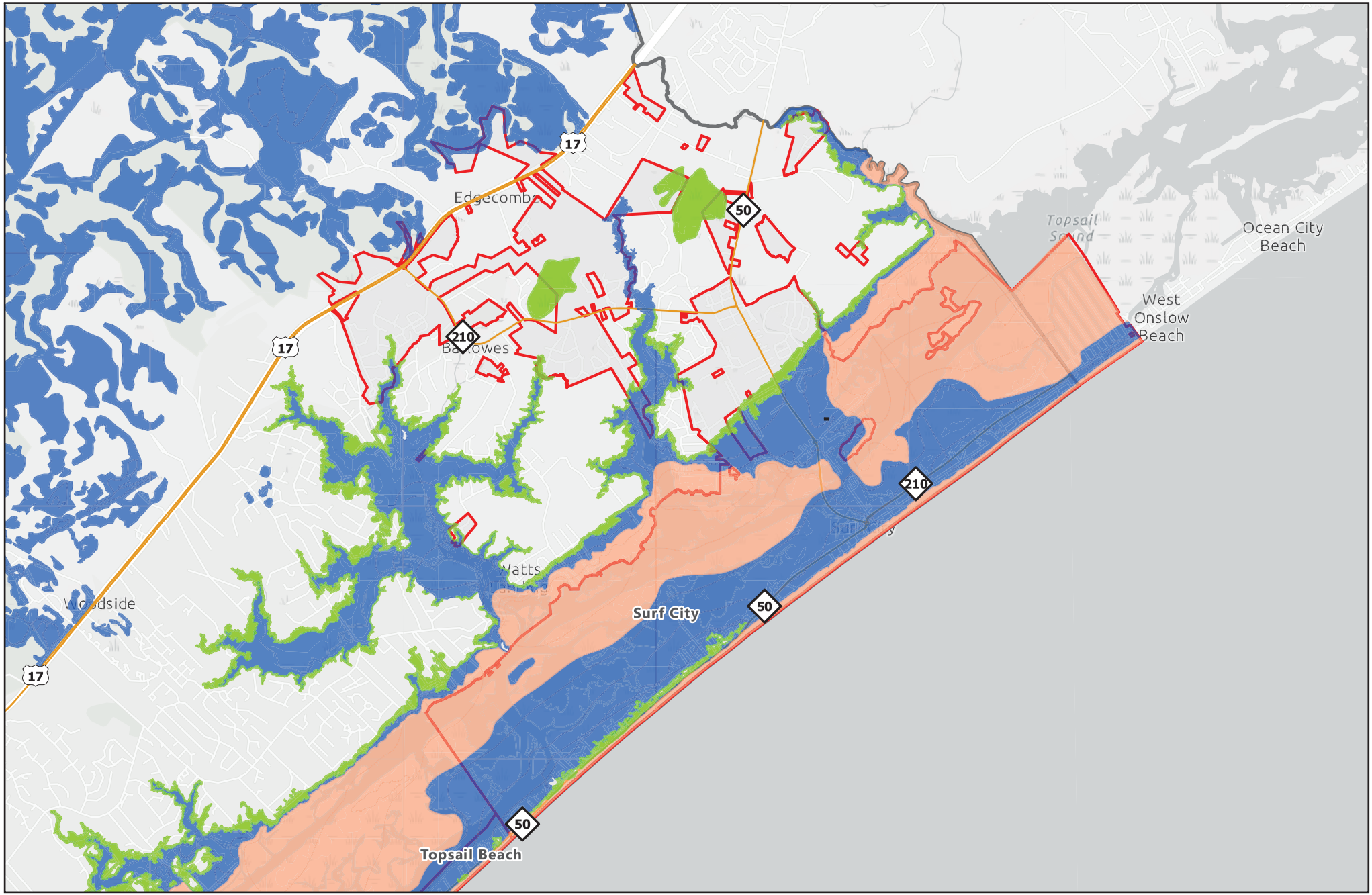
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Surf City - Flood Hazard Areas



Legend

- Major Roads
- Pender County Municipal Boundaries
- Pender County Boundaries

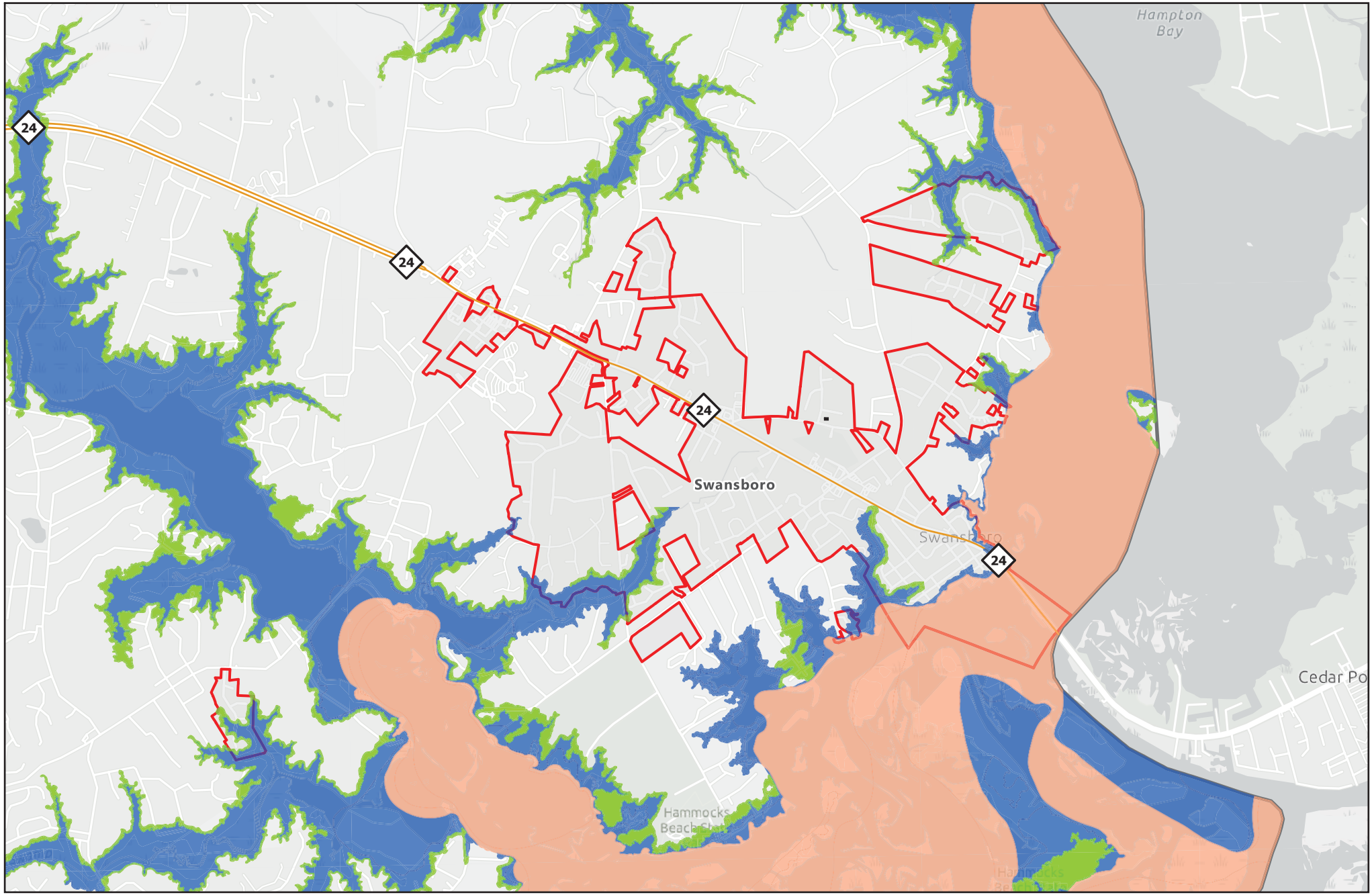
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.75 1.5 3 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37141C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Swansboro - Flood Hazard Areas



Legend

- Major Roads
- Onslow County Municipal Boundaries
- Onslow County Boundaries

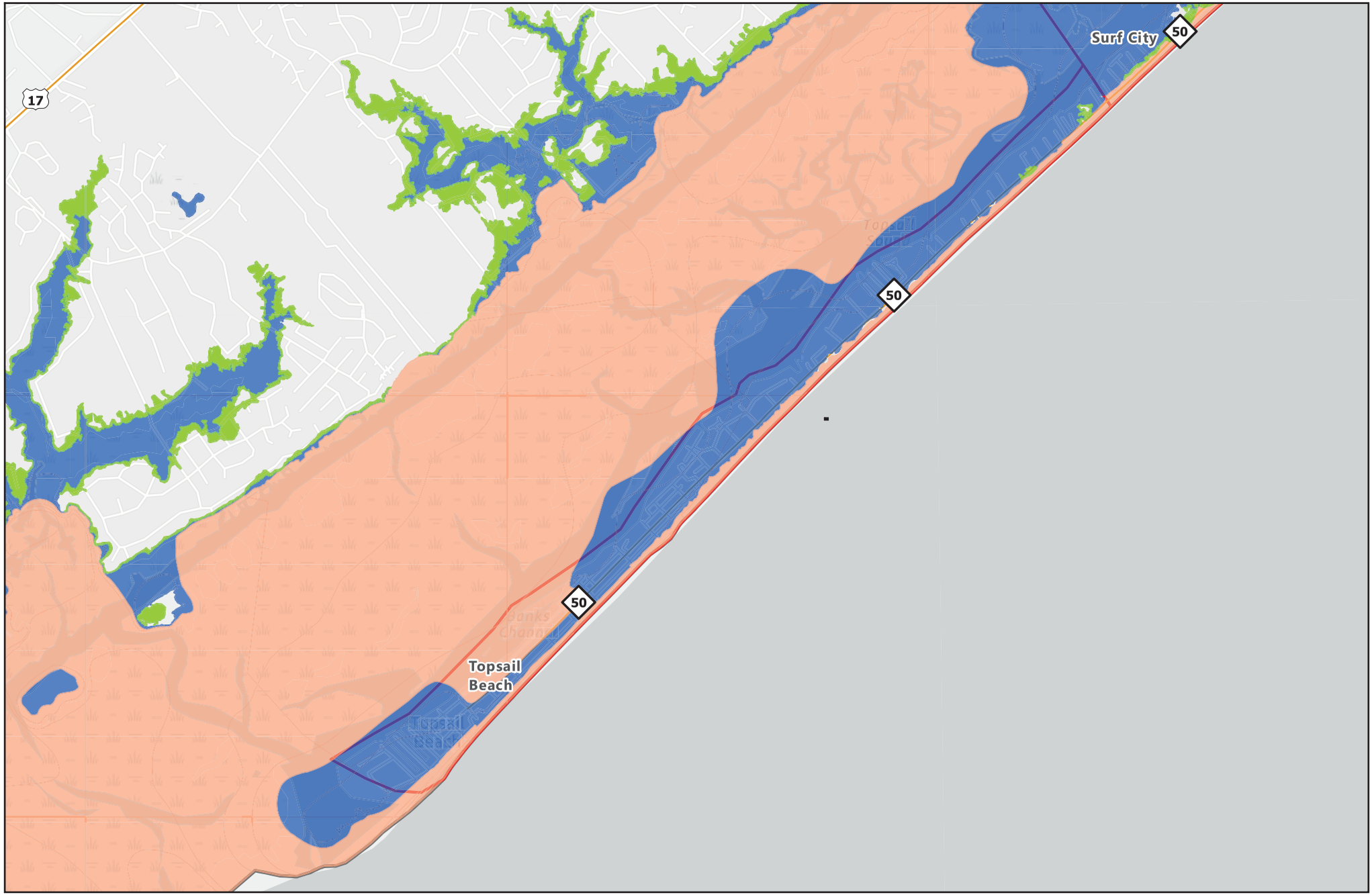
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.47 0.95 1.9 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37133C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: 1/14/2009

Topsail Beach - Flood Hazard Areas



Legend

- Major Roads
- Pender County Municipal Boundaries
- Pender County Boundaries

Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37141C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Varnamtown - Flood Hazard Areas

Legend

- Major Roads
- Brunswick County Municipal Boundaries
- Brunswick County Boundaries

Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.38 0.75 1.5 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37019C
Latest Study Effective Date: 12/6/2019
Latest LOMR Effective Date: 9/19/2025

Watha - Flood Hazard Areas

Legend

- Major Roads
- Pender County Municipal Boundaries
- Pender County Boundaries

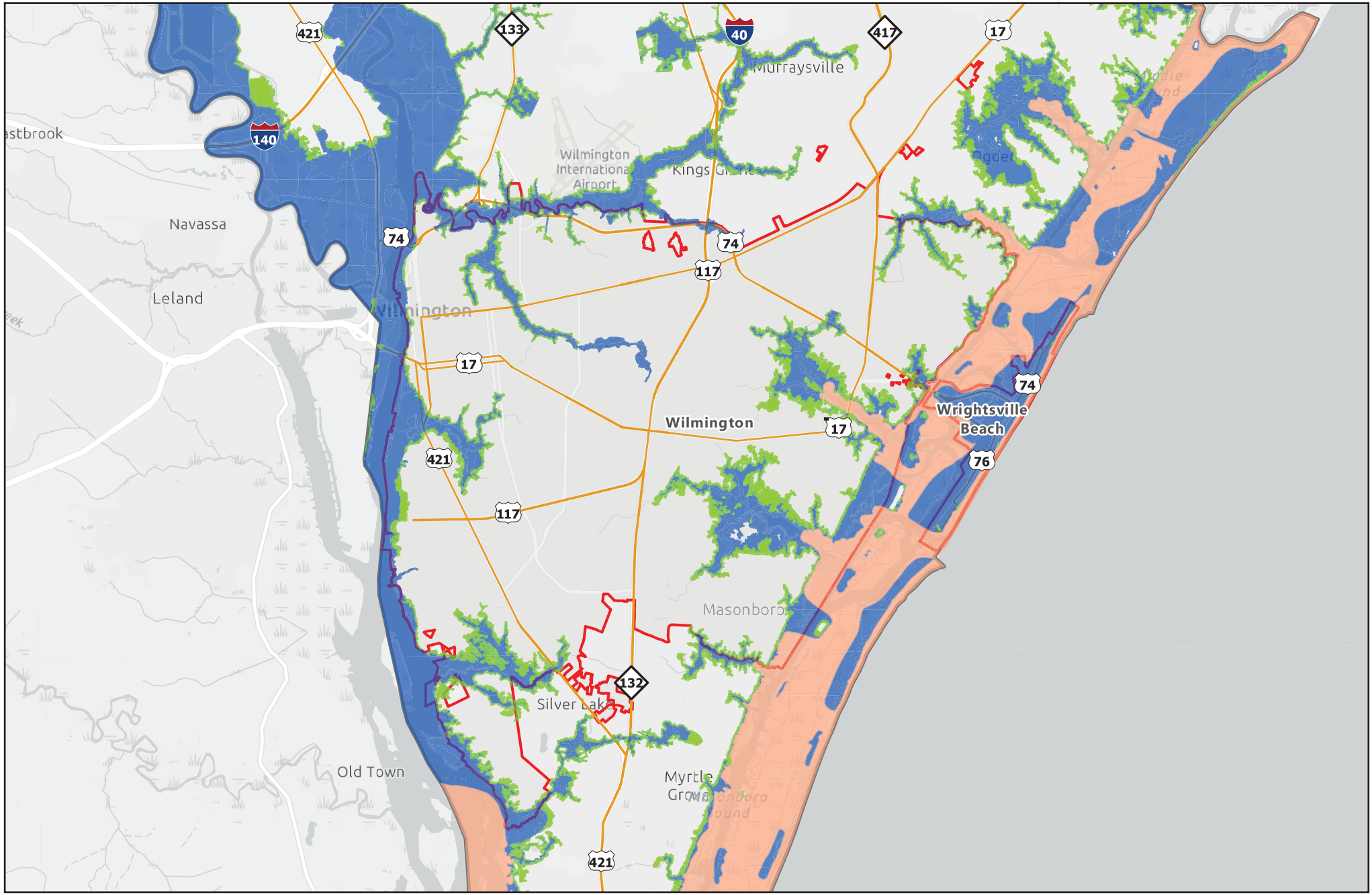
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.23 0.45 0.9 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37141C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Wilmington - Flood Hazard Areas



Legend

- Major Roads
- New Hanover County Municipal Boundaries
- New Hanover County Boundaries

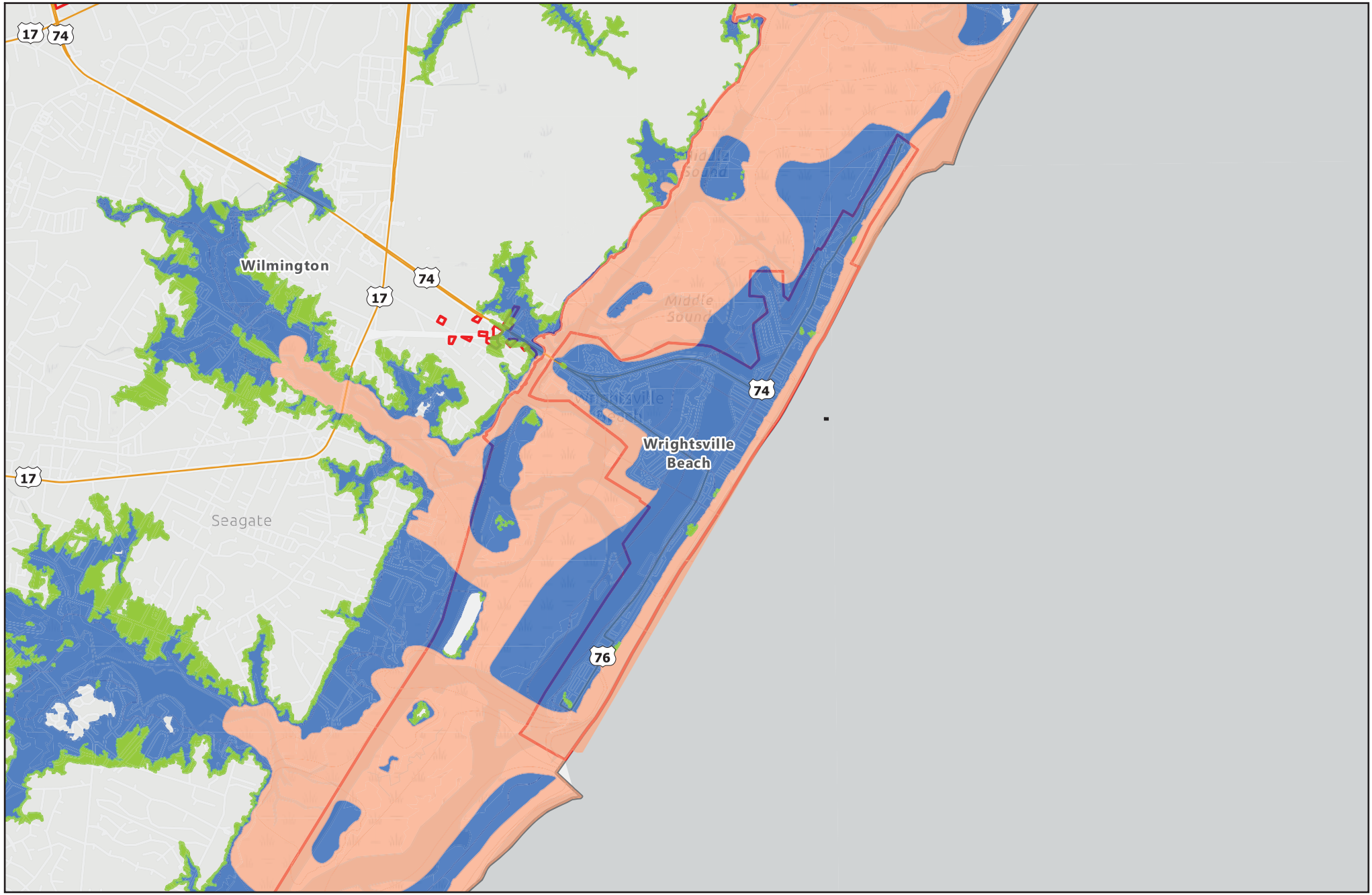
Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 1.5 3 6 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37129C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A

Wrightsville Beach - Flood Hazard Areas



Legend

- Major Roads
- New Hanover County Municipal Boundaries
- New Hanover County Boundaries

Flood Zone

- 1% Annual Chance
- 1% Annual Chance (Coastal)
- 0.2% Annual Chance

0 0.5 1 2 Miles

Data Source: Flood Map Service Center, Federal Emergency Management Agency
Product ID: NFHL_37129C
Latest Study Effective Date: 1/17/2025
Latest LOMR Effective Date: N/A