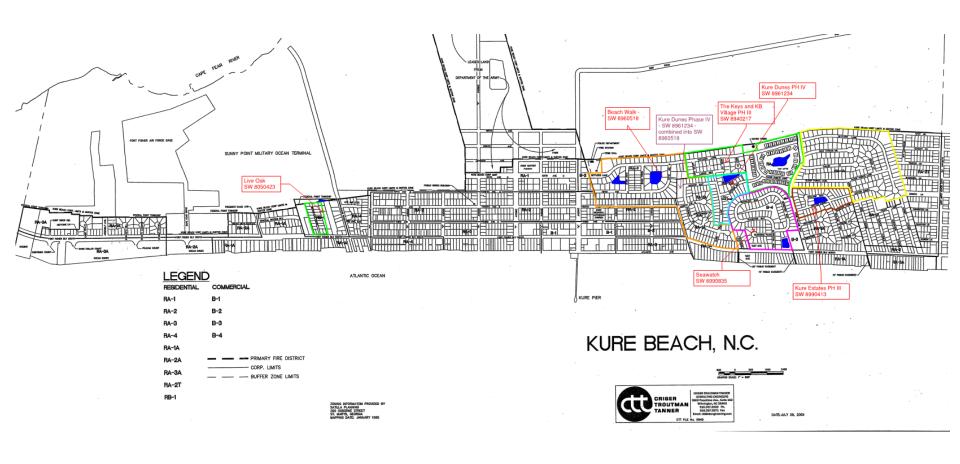
Stormwater Update

David W. Heglar, PE Emergency Response Coordinator

- Potential Tropical Cyclone 8 brought >17" of rain in less than 12 hours on September 16, 2024
- Every stormwater system in the town was overwhelmed by this reported 1000 year flood. This amount of rainfall exceeded the design capacity of all stormwater systems within the town – resulting in over 147 homes experiencing flooding into the living spaces.
- Properties in every area of town were impacted with as this rainfall backed up and filled the low lying areas in each neighborhood.
- The amount of rainfall in this short duration exceeded Hurricane Florence (2018) (during 2-4am) and Hurricane Floyd (1999).

Cape Fear River – 4 outfalls – Henniker's Ditch, K Ave Ditch, Ditch through disc golf course, 5th street to Davis Road ditch



Atlantic Ocean – 15 outfalls (2 owned by DOT, 13 TOKB maintained pipes)

Town Actions

Public Works

- Ensured lift stations were not flooded / released to environment
 - 2 lift stations required manual pumping actions during event
 - With 4 others alarming throughout the event
- Ensured drain systems were not clogged during event all personnel were in town moving from system to system throughout the early morning until late in the evening when the systems caught up and flooding began to subside..
- Once rain stopped systems operated as designed and within 30 mins to 4 hours all roads were passable and areas were clearing
- No system failures detected and no reported damage from any permitted stormwater system.

Fire Department

- 24 requests for rescue from vehicles and private property occurred.
- At the worst of the storm in late morning to early afternoon – access to citizens was restricted to the brush truck and NHC High water rescue vehicle
- Additional assistance as department was in community and observed issues

Police Department

- KBPD requested high-water vehicle from NHC Emergency Management – which was available late in event
- Road Closures during event-
 - Multiple roads were closed by police additionally roads became impassible throughout much of the town unless in high clearance vehicles.
 - Multiple people were stopped by PD and Emergency personnel driving too fast in high water – pushing water into homes.

Development and Compliance Department

- Surveyed all properties in Kure Beach for Damage Assessment as required by the State/Federal government (with assistance from New Hanover County Building Inspections Department)
- Shared FEMA recovery information
- Offered contact information (New Hanover County) to affected citizens for Mitigation Grant Funding

Admin/Finance/Legal

- Worked to coordinate contracts for debris removal immediately following the storm.
- Debris pick-up began 7 days after event.
- Reported all public spending for storm related issues to state. This was a key piece of getting both State and Federal disaster declarations

Support actions

- State Actions
 - 10/16/24 Type 1 disaster declaration
 - Public Assistance
 - Individual Assistance potentially grants or loans based on SBA factors
 - Disaster Recovery Center 10/21-10/28
 - 1121 N Lake Park Blvd (Carolina Beach Recreation Center)

Support Actions

- Federal Actions
 - 10/19/24 Federal Disaster declaration
 - North Carolina Potential Tropical Cyclone Eight (DR-4837-NC)