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MINUTES

January 22, 2025 SECOND MONTHLY MEETING OF THE CITY COUNCIL CITY HALL - 2[№] FLOOR MEETING ROOM | 160 6[™] AVENUE E. | 4:00 p.m.

<u>Present:</u> Mayor Pro Tem Dr. Jennifer Hensley and Council Members Lyndsey Simpson, Melinda Lowrance and Gina Baxter

Absent: Mayor Barbara G. Volk

<u>Staff Present:</u> City Manager John Connet, City Clerk Jill Murray, City Attorney Angela Beeker, Communications Manager Allison Justus, Budget & Evaluation Director Adam Murr, and others.

1. CALL TO ORDER

Mayor Pro Tem Jennifer Hensley called the meeting to order at 4:02 p.m. and welcomed those in attendance. A quorum was established with all members in attendance.

2. CONSIDERATION OF AGENDA

Council Member Melinda Lowrance moved that City Council approve the agenda as presented. A unanimous vote of the Council followed. Motion carried.

3. PRESENTATIONS

A. Floodplain Workshop – *Mike Huffman, Stormwater Director*

City Manager John Connet said we have folks from the State here and our team has put together a presentation for you. We've laid out an agenda where we spend 15 minutes or so talking about Floodplain 101, then we'll spend about 30 minutes talking about floodplain mapping and we'll have 15 minutes or so to talk and answer questions. We're going to keep it to two hours and we are not taking questions from the audience but of course council can ask questions.

Mike Huffman introduced the two guests. Mr. Terry Fox, CFM, NFIP Planner, NC Western Branch and Steve Garrett, CFM, State NFIP Coordinator.

Mike gave the following PowerPoint presentation.

Floodplain Development Workshop

January 22, <u>2025</u> City Council Meeting City of Hendersonville, NC

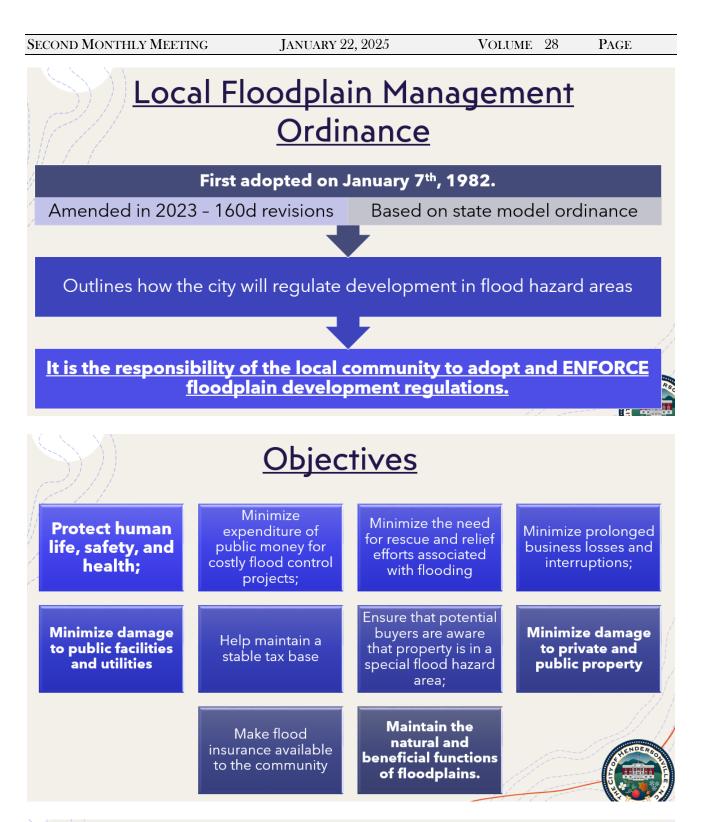


Purpose and Overview +Explore floodplain regulations, mapping, and reasonable development considerations. +Equip City Council with tools to guide future floodplain management. <u>Agenda Overview:</u> Local Floodplain Regulations 1. Overview of Floodplain Mapping 3. Discussion 4. Additional Information - Time permitting Understanding Floodplain Regulations Local Floodplain Special Flood Development vs. The NFIP Management Hazard Areas redevelopment. Ordinance Base Flood 'No Rise' Balancing Substantial Elevation (BFE) Requirement development Damage and and floodplain and Freeboard with flood risk Improvement requirements. filling. mitigation.

National Flood Insurance Program

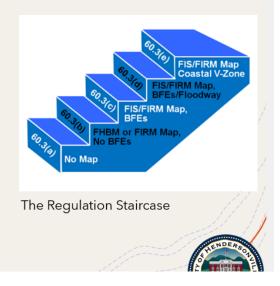
4Provide affordable flood insurance to property owners, reducing the socio-economic impact of floods by mitigating flood risks

- +Enables property owners in participating communities to purchase insurance against flood losses
- +To qualify for the NFIP, <u>a community must adopt and</u> <u>enforces a floodplain management ordinance to regulate</u> <u>development in flood hazard areas.</u>



<u>Floodplain Development – Flood Ord.</u>

- + <u>Development</u>: any manmade change to improved or unimproved real estate, including, but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations, or storage of equipment or materials.
- +<u>General Standards (Sec. 24-91)</u>: Apply in all special flood hazard areas
- + <u>Specific Standards (Sec. 24-92)</u>: all Special flood hazard areas **where base flood elevation (BFE) data have been provided**



<u>General Standards (Sec. 24-91):</u>

+ All new construction and substantial improvements shall:

- +/adequately anchored to prevent flotation, collapse, and lateral movement of the structure
- + constructed with materials and utility equipment resistant to flood damage
- + constructed by methods and practices that minimize flood damages
- + Electrical, heating, ventilation, plumbing, air conditioning equipment, and other service facilities shall be designed and/or located to prevent water from entering or accumulating within the components during conditions of flooding to the regulatory flood protection elevation
- + 13 more provisions:
 - + Water/Sewer/ On-site Wastewater systems
 - + Subdivision requirements
 - + Structures in multiple flood zones
 - + Repairs/Alterations

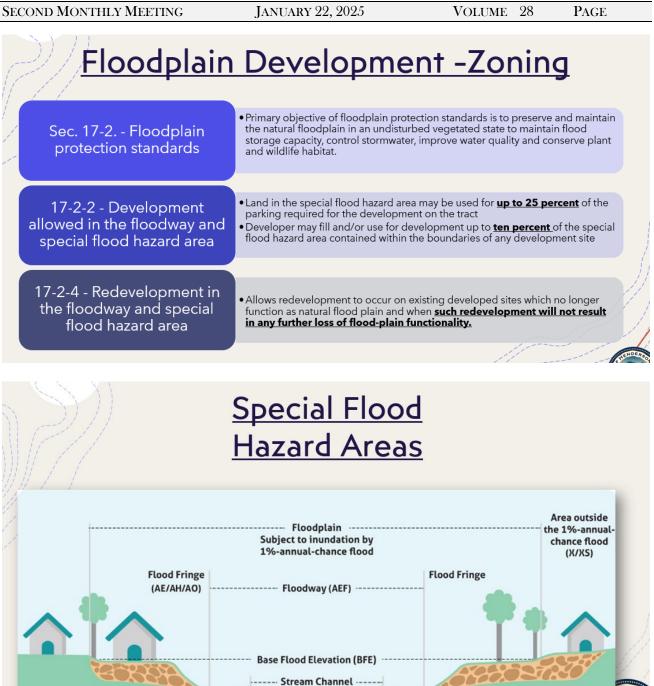
Specific Standards (Sec. 24-92):

- + All general standards also apply
- 4 Residential Construction: shall have the reference level,
- fincluding basement, elevated <u>no lower than the regulatory</u> <u>flood protection elevation</u>
- + Non-Residential Construction: the reference level, including basement, elevated no lower than the regulatory flood protection elevation <u>may be floodproofed to the regulatory</u> <u>flood protection elevation</u> in lieu of elevation.

<u>Specific Standards (Sec. 24-92):</u>

+ Manufactured Homes:

- +shall be elevated so that the reference level of the manufactured home is no lower than the regulatory flood protection elevation
- + securely anchored to an adequately anchored foundation to resist flotation, collapse, and lateral movement
- + An evacuation plan must be developed for evacuation of all residents of all new, substantially improved or substantially damaged manufactured home parks or subdivisions located within flood-prone areas



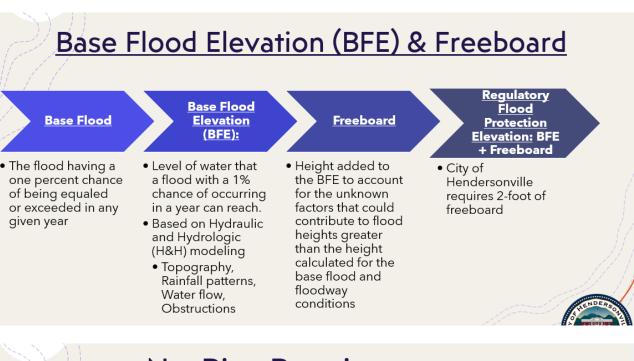
Special Flood Hazard Areas (SFHA)

- + The land in the **floodplain** subject to a **one percent or** greater chance of being flooded in any given year
- + Floodplain
 - + any land area susceptible to being inundated by water from **any source**.
- + Base Flood: 1%-Annual-chance flood

Filled Land

- + Floodways and Non-Encroachment Areas
 - + the channel of a river or other watercourse and the adjacent land areas that must be reserved to discharge the base flood





No-Rise Requirements

- + Applicable in Floodways and Non-Encroachment Areas (NEA)
 - + extremely hazardous areas due to the velocity of floodwaters that have erosion potential and carry debris and potential projectiles.
 - + All General and Specific Provisions Apply
- + No encroachments, including fill, new construction, substantial improvements and other developments shall be permitted unless:
 - + It is demonstrated that the proposed encroachment would not result in any increase in the flood levels during the occurrence of the base flood, based on H&H analyses; or
 - + A conditional letter of map revision (CLOMR) has been approved by FEMA. A letter of map revision (LOMR) must also be obtained upon completion of the proposed encroachment

Substantial Damage/Improvement <u>'50% Rule'</u>

+Applies to all structures located in the SFHA

- + <u>Substantial Damage</u>: damage of <u>any origin</u> sustained by a structure during <u>any one-year period</u> whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50% of the market value of the structure **before** the damage occurred
- + <u>Substantial Improvement</u>: any combination of repairs, reconstruction, rehabilitation, addition, or other improvement of a structure, taking place during <u>any one-year period</u> for which the cost equals or exceeds 50% of the market value of the structure <u>before the "start of construction"</u> of the improvement



What do floodplain maps show (and not show)?

Overview of Floodplain Mapping

Updating maps: Process, timing, and triggers.

Alternative mapping resources.

FEMA Flood Maps

- + FIS Flood Insurance Study
 - + Report prepared by the FEMA that summarizes an analysis of the flood hazards in a community
- + FIRM Flood Insurance Rate Map
 - + Basis for floodplain management, mitigation, and insurance activities in NFIP
 - + Adopted October 2, 2008
 - + Used by lenders/insurance agencies to determine flood risk
 - + Helps communities understand flood risk and make informed decisions
 - + Created through partnerships between local, state, and federal agencies.



FEMA Flood Maps Limitations

- + FIRMs and FIS reports are often dated
- + FIRMs and FIS reports are based on models
- + FIRMs and FIS reports do not show worst-case scenarios



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Direction for Staff

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Closing and Questions

- 4Acknowledgments
- +Input from state technical experts.
- +Engagement with community stakeholders.
- +Open Floor: Questions, comments, and feedback from City Council.
- +Thank You

Steve Garrett gave the following PowerPoint presentation.

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NC Floodplain Mapping Update

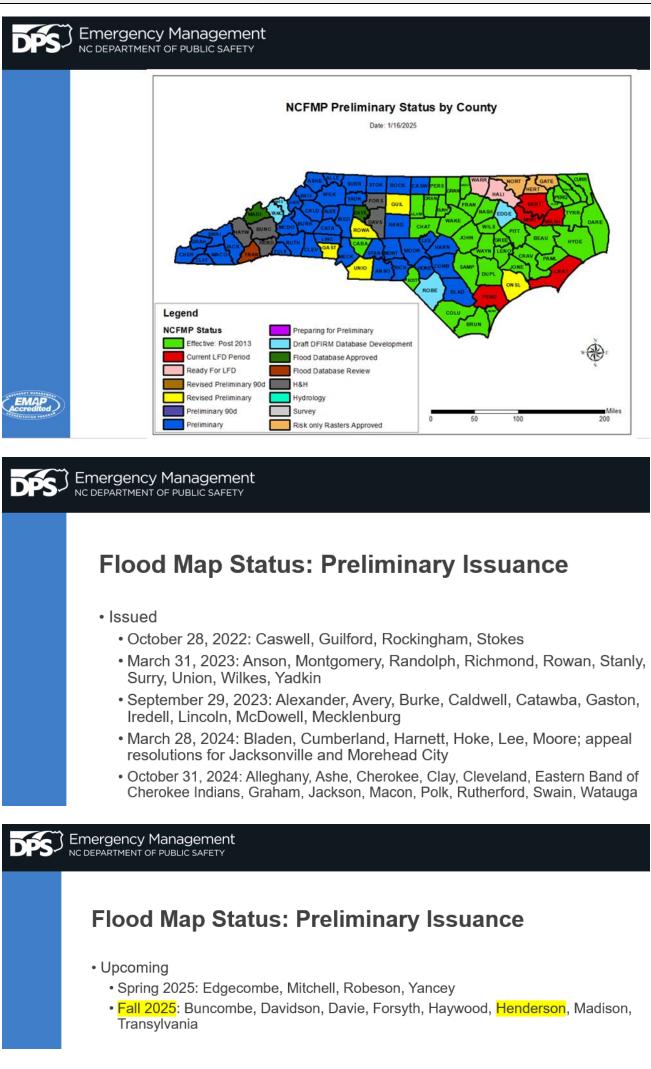
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NCFPM/FEMA Map Maintenance

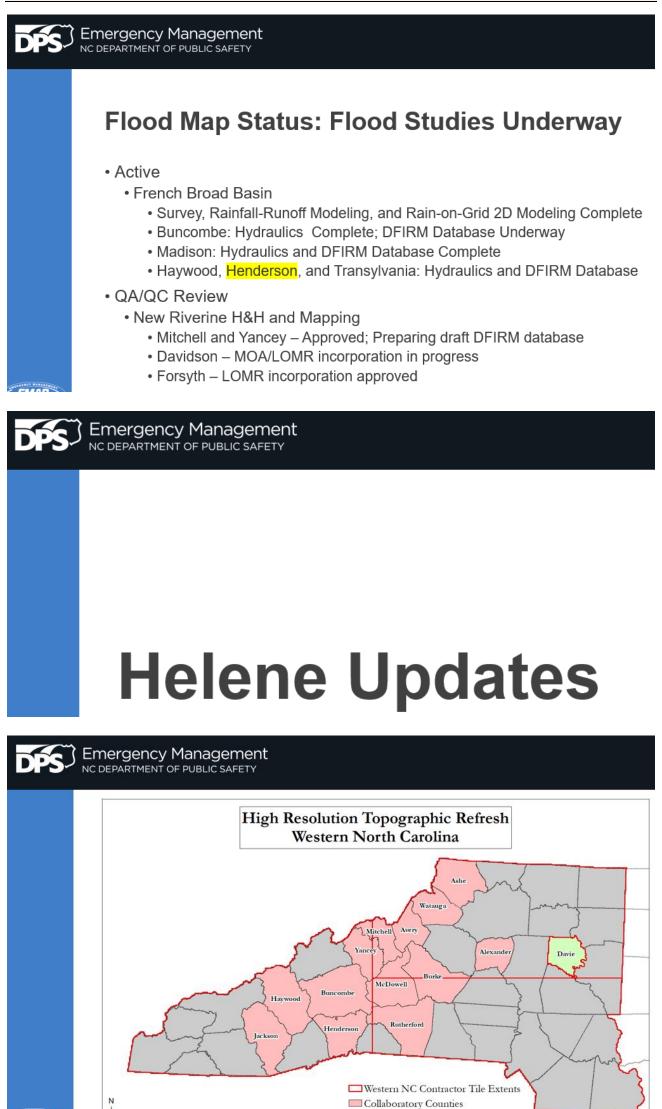
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EMAP



State Funded

Western NC Counties

Miles

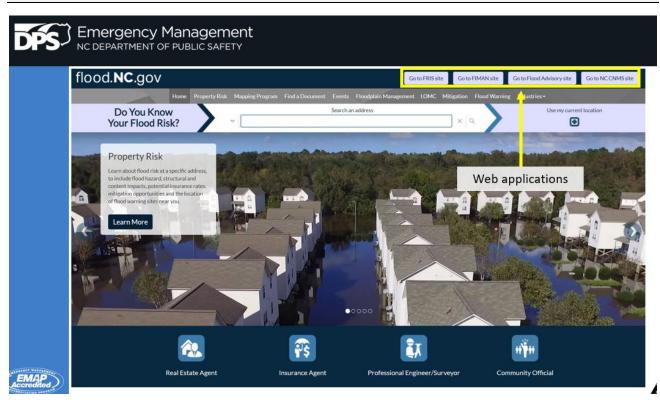
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Emergency Management NC DEPARTMENT OF PUBLIC SAFETY **Post-Helene Updates** State of North Carolina in collecting post-Helene Lidar data for 41 Counties this year. • Deliverables should be available by the end of the calendar year. NCFMP is currently reviewing post-Helene aerial imagery to identify areas where the river/stream channel has been shifted outside the mapped Special Flood Hazard Area boundaries. NCFMP will conduct a similar review of post-Helene Lidar data to identify areas where the terrain has been modified by the event. • NCFMP will update 2-D BLE models and mapping using the updated Lidar data and discuss future FIRM updates with communities. Emergency Management NC DEPARTMENT OF PUBLIC SAFETY Available Flood Hazard Data Emergency Management NC DEPARTMENT OF PUBLIC SAFETY NC Web Applications

- Flood.NC.gov <u>https://flood.nc.gov/ncflood/</u>
- FRIS <u>http://fis.nc.gov/</u>
 New Version Released November 22, 2024
- Advisory Flood Data <u>https://flood.nc.gov/advisoryflood/</u>
- FIMAN <u>https://fiman.nc.gov/</u>
 New Version Released May 1, 2024

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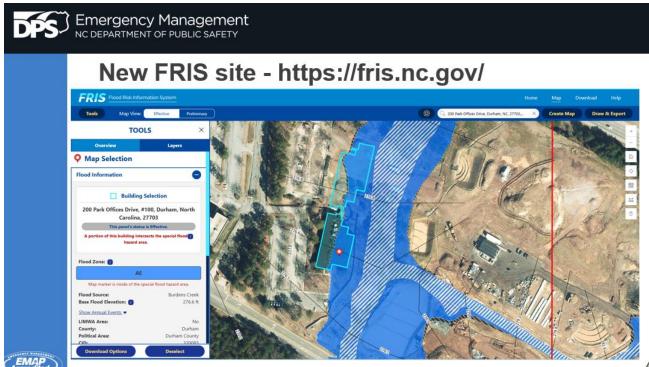
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New FRIS site - https://fris.nc.gov/

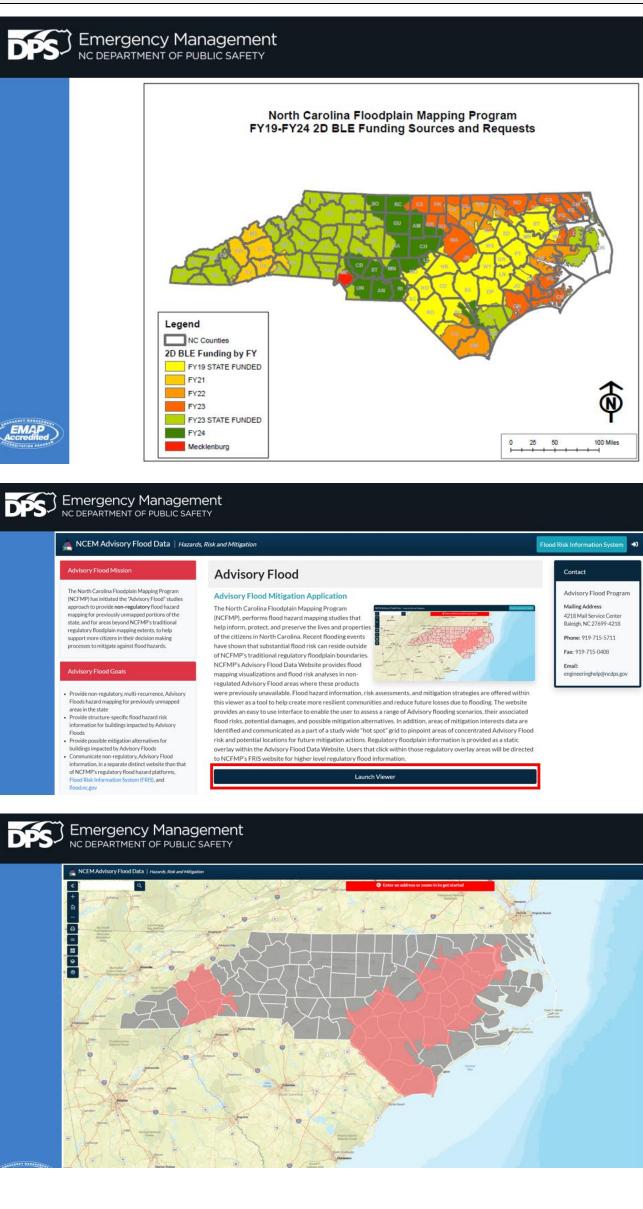




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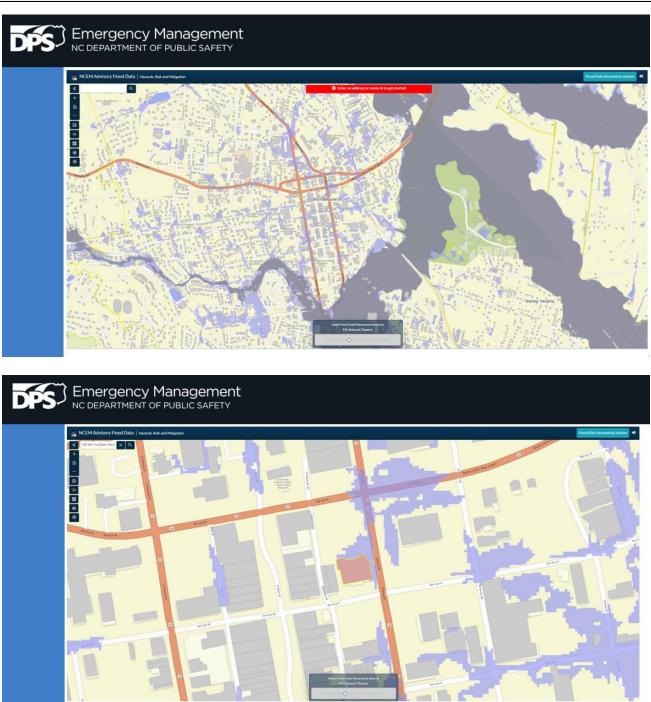
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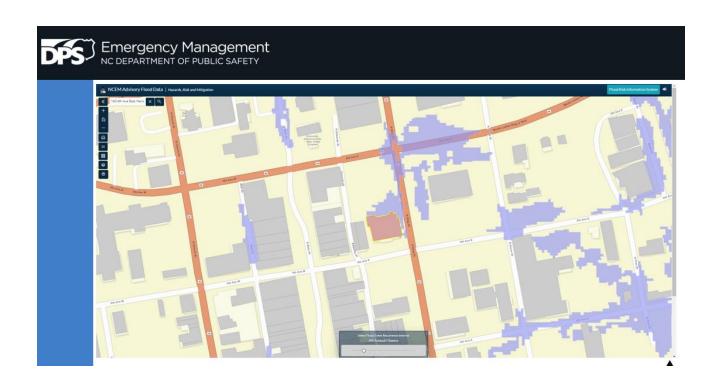




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	/ Management OF PUBLIC SAFETY	
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	Advisory Flood Hazard Data Water Surface Elevation Information	8
	160 6th Avenue East, Hendersonville, No	
	Mud Creek	Elevation ¹
	Event	
	20% Annual Chance (5-Year Flood)	No Data
	10% Annual Chance (10-Year Flood) 4% Annual Chance (25-Year Flood)	No Data 2134.5
	4% Annual Chance (25-Year Flood) 2% Annual Chance (50-Year Flood)	2134.5 2134.6
	2% Annual Chance (30-Year Flood) 1% Annual Chance (100-Year Flood)	2134.6
	1% Rainfall Depth Plus (100-Year Flood) 1% Rainfall Depth Plus (100-Year Flood (Upper Confidence Bound))	2134.6
	1% Rainfall Depth Plus (100-rear Plobo (Opper Conhoence Bound)) 1% Rainfall Depth Plus 10% (Median 1% Annual Chance Rainfall Depth plus 10%)	2134.6
	1% Rainfall Depth Plus 20% (Median 1% Annual Chance Rainfall Depth Plus 20%) 1% Rainfall Depth Plus 20% (Median 1% Annual Chance Rainfall Depth Plus 20%)	2134.6
	1% Rainfail Depth Plus 20% (Median 1% Annual Chance Rainfail Depth plus 20%) 1% Rainfail Depth Plus 30% (Median 1% Annual Chance Rainfail Depth plus 30%)	2134.0
	.5% Annual Chance (200-Year Flood)	2134.6
	.2% Annual Chance (500-Year Flood)	2134.7
	.1% Annual Chance (1000-Year Flood)	2134.7
	¹ Water surface elevations in feet (NAVD88)	
	Possible Mitigation Techniques: • Acquisition • Reiocation	
	Wet floodproofing	
	 Wet floodproofing There are 22 structures potentially affected in this area with projected damages totaling \$19,609,418 for a 30 measures in place \$16,014,178 in flood losses avoided could be achieved over 30 years and \$21,097,701 over Basin Report 	

Mike Huffman emphasized that City Council can adopt what they want but they have to be ready and willing to enforce it.

City Attorney Angela Beeker gave a brief overview of Moratoria. She explained that a moritorium is a temporary halt or pause on some type of development and you do that by halting or pausing the issuance of development permits like zoning permits, building permits, certificates of appropriateness. It's any type of administrative or quasi-judicial approval and you do that through the adoption of an ordinance and it's up to City Council to set up the parameters in the ordinance.

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Moratoria – NCGS § 160D-107

- May not adopt a moratorium for the purpose of developing new or amended plans or regulations governing residential uses.
- Public Hearing is Required more notice given if 61+ days
- Vested projects exempted
 - o BP issue
 - o SUP applied for
 - o Common law vested right established
 - \circ $\;$ Preliminary for final subdivision plat applied for prior to public hearing
- Required Statements:
 - Problems or conditions necessitating moratorium
 - o What alternatives to a moratorium were considered and why the alternatives were not deemed adequate
 - Which development approvals* will be subject to a moratorium and how a moratorium on those approvals will address the problems or conditions leading to imposition of the moratorium.

*Administrative and quasi-judicial approvals only.

- o A date for termination, and why that duration is reasonably necessary to address the problems or conditions stated.
- A statement of the actions, and a schedule for those actions, proposed to be taken during the moratorium to address the problems or conditions stated.
- Cannot be extended or renewed unless all actions steps taken and new facts and conditions arise warranting the extension or renewal.

John Connet said we are lucky to have Miike Huffman and thank you to our engineering team and our GIS team.

Additional Information – Time-Permitting Topics

- + Community Rating System (CRS) participation and benefits.
- + Possible ordinance amendments.
- + Comparison of regulations in neighboring jurisdictions.
- + Floodplain mitigation and recovery strategies.

Things that Council may want to think about:

- Development that occurred pre 1982. The comp plan does talk about areas that may have been developed prior to the floodplain maps that we would encourage over time that at least part of that property would be returned to floodplain if it's feasibly possible. We could do that through the FEMA buyout program. It's gonna have to be voluntary or the city will have to buy out those properties from those owners at fair market value. That is one thing to think about with development around the floodplain.
- In the zoning ordinance relating to fill, 25% of the development's parking can be in the floodplain but they cannot fill that area.

Mike Huffman continued to answer many questions from Council.

City Manager Connet finished by saying we will bring a menu of things bck to you all to have a look at, pros and cons and run it by our advisory committees and go through the process.

4. <u>CITY COUNCIL COMMENTS</u>

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Mayor Pro Tem Hensley said this was a lot to take in and very informative but also very helpful and we appreciate having such great staff to guide us through and help us to learn so we can make good decisions moving forward and be better elected officials and policymakers.

City Council Member Lowrance said that she hopes in the future we will be able to better communicate to the underserved comunities that were highly impacted by the floodwaters as they felt like they didn't get information in a timely manner.

5. ADJOURN

There being no further business, the meeting was adjourned at 6:01 p.m. upon unanimous assent of the Council.

ATTEST:

Jennifer Hensley, Mayor Pro Tem

Jill Murray, City Clerk