MANAGER'S MESSAGE

The 100-Year Storm Myth: Why Rain Doesn't Follow a Schedule

When you hear that the 100-year storm is supposed to happen once every 100 years, it can be misleading. It doesn't mean that a storm of that magnitude will only occur once every century. Instead, it means that there is a 1% chance of a storm of that magnitude occurring in any given year. The 100-year storm is a statistical concept that is based on historical data and probability. It is used to estimate the likelihood of extreme weather events and to design infrastructure that can withstand them. However, it is important to understand that these events can occur more frequently than once every 100 years.

Rain - The term used to describe water that falls from the sky.

Rainfall - The total amount of water that has fallen and collected over a flat area of land. However, it does not take in running, sloping areas or properties surrounding the property.

Rainfall Intensity - The amount of rainfall that falls over a specific period of time.

Runoff - Water that flows over the ground surface and is not absorbed into the soil.

Storm - Used to describe rainfall events that are considered significant, usually in terms of intensity, duration, and/or accumulation. It can lead to localized flooding.

Flood - The overflow of water onto normally dry land.

Flooding - Rainfall can be variable and is sometimes intensive. It causes parts of the catchment to flow more than it can store, which determines when reactions in the catchment will occur, such as flooding and runoff.

Rain - A storm which always produces a 100-year event.

Reality - The 100-year storm is a statistical concept that is based on historical data and probability. It is used to estimate the likelihood of extreme weather events and to design infrastructure that can withstand them.

We have been told that the 100-year storm is supposed to happen once every 100 years.

Jim Mackie, Program Manager of Flood Action Awareness

Flood Action Awareness Program is a service centre at provincial authority for service needed of the Flood Action Advisory Group.

PROJECT UPDATES

LARGE CAPACITY PROJECTS

City of Morrisville Continues Utility Coordination to Make Progress on Commonwealth Avenue, Glebe Flood Mitigation Project

Crews are currently working on Commonwealth Avenue and Glebe Road near the Commonwealth Avenue Bridge. Crews are working to relocate utilities in the area of the bridge. The relocated utilities will be underground conduit. Utilities that will be relocated are: Comcast, Verizon, Morrisville Water Department, Duke Energy Progress, and Duke Energy Carolinas. Utility coordination is a necessary step to make room for the new bridge. The new bridge will be wider and taller than the current bridge. The new bridge will also have a wider sidewalk and bike lanes.

Utility coordination is a process that involves a number of ongoing factors in a project and is likely to take place over a long period of time. The City of Morrisville is working with the utility companies to minimize the impact to residents and businesses during this process.

The paving, following up work crews started May 18th and will last around six and one-half months. Motorists should expect lane closures during this time. Message boards will be placed in advance of the work zone to alert motorists of the upcoming lane closures.

Motorists are encouraged to slow down and use caution when driving through the work zone. Pedestrians should also use caution when in the vicinity of the work zone. Questions or concerns may be directed to Project Manager Jim Mackie at 919-996-4040.

Flood Action Awareness Program

NEIGHBORHOOD SPOT IMPROVEMENT PROJECTS

Preparations Begin for Hanks Avenue Bypass Project

Crews will start the Hanks Avenue Bypass project by clearing the Community Assembly Church property on Hanks Avenue, between Hanks Avenue and Glebe Road.

Duke Energy Progress (Duke) and Comcast have notified the Hanks Avenue bypass work zone. Duke will relocate overhead power lines and Comcast will relocate underground cable.

Utility coordination is a necessary step to make room for the new bridge. The new bridge will be wider and taller than the current bridge. The new bridge will also have a wider sidewalk and bike lanes. The project is expected to be completed by the end of 2020.

Motorists should expect lane closures during this time. Message boards will be placed in advance of the work zone to alert motorists of the upcoming lane closures.

Motorists are encouraged to slow down and use caution when driving through the work zone. Pedestrians should also use caution when in the vicinity of the work zone. Questions or concerns may be directed to Project Manager Jim Mackie at 919-996-4040.

City Seeks Community Feedback on Valley Drive Storm Drain Improvement Project

The City is seeking community feedback on Valley Drive Storm Drain Improvement Project. Several Flooding issues have been reported in the area during heavy rainfall events.

The Valley Drive Storm Drain Improvement Project will improve the local drainage system and reduce the flooding issues that have been reported in the area.

The City is currently in the design phase of the project and will be seeking input from residents and property owners in the area. Public meetings will be held in the coming months to discuss the project in more detail and to answer any questions that residents may have.

The City encourages residents to provide their feedback on the project. Comments can be submitted online at the City's website or by mail to the City's Public Works Department. The City will consider all feedback when making decisions about the project.

The Valley Drive Storm Drain Improvement Project is an important project that will help to reduce flooding in the area. The City appreciates the input of residents and property owners as it moves forward with the project.

The survey is live and will be open through July 30, 2020. It is available on the www.cityofmorrisville.com website.

Coordination Continues to Relocate Water Mains for West Naval Base Flood Mitigation Improvements

Crews are continuing the relocation of water mains for the West Naval Base flood mitigation improvements. The project is located in the area of Naval Base Road and Bayside Road.

The City is working with Duke Energy Progress and Comcast to relocate existing utility poles in the area. Duke Energy Progress will relocate power lines and Comcast will relocate cable lines. The relocation of these utilities is necessary to make room for the new water mains. The City is also working with a utility coordinator to ensure that these utilities are relocated in a safe and timely manner.

Once the new water mains are in place, they will be connected to the existing water system. This will help to improve the reliability of the water system and reduce the risk of flooding in the area.

In June, the City will perform additional work, which may require roads undergone utility coordination. Motorists should expect lane closures during this time. Message boards will be placed in advance of the work zone to alert motorists of the upcoming lane closures.

Motorists are encouraged to slow down and use caution when driving through the work zone. Pedestrians should also use caution when in the vicinity of the work zone. Questions or concerns may be directed to Project Manager Jim Mackie at 919-996-4040.

Construction Phase Nears on Gibson Street Cul-de-Sac Drainage Improvement Project

The City is preparing for the design of a project on Gibson Road, near the Gibson Street Cul-de-Sac, and the Naval Base Springs Park.

The Gibson Street Cul-de-Sac Drainage Improvement Project includes installing inlets along Gibson Street. The inlets will help to collect and drain stormwater runoff from the surrounding area. The project will also include the installation of a new storm drain pipe that will connect the inlets to a nearby stream. The new storm drain pipe will help to reduce the risk of flooding in the area.

In order for the City to complete the design of the project, it will be necessary for the City to perform a survey of the area. The survey will help the City to determine the exact location of the inlets and storm drain pipe.

The City is working with the Engineering Department to ensure that the project is done safely and efficiently. The City is also working with the Engineering Department to minimize the impact on residents and businesses during the construction process.

The City appreciates the cooperation of residents and property owners in the area as it moves forward with the project. The City will keep residents informed of the progress of the project and will provide updates on the City's website.

Additional Investigation Requested Ahead of Clifford, Fulton, Manning Design Workshop

The City is preparing for the design of a project on Clifford, Fulton, and Manning Drive. The project is located in the area of Naval Base Springs Park.

The Clifford Fulton Drainage Improvement Project includes installing inlets along Clifford, Fulton, and Manning Drive. The inlets will help to collect and drain stormwater runoff from the surrounding area. The project will also include the installation of a new storm drain pipe that will connect the inlets to a nearby stream. The new storm drain pipe will help to reduce the risk of flooding in the area.

In order for the City to complete the design of the project, it will be necessary for the City to perform a survey of the area. The survey will help the City to determine the exact location of the inlets and storm drain pipe.

The City is working with the Engineering Department to ensure that the project is done safely and efficiently. The City is also working with the Engineering Department to minimize the impact on residents and businesses during the construction process.

The City appreciates the cooperation of residents and property owners in the area as it moves forward with the project. The City will keep residents informed of the progress of the project and will provide updates on the City's website.

Kick-Off Meeting Held for Eisenhower Culvert Improvement Project

The City is preparing for the design of a project on Eisenhower Drive. The project is located in the area of Naval Base Springs Park.

The Eisenhower Culvert Improvement Project includes replacing the culvert that runs under Eisenhower Drive. The culvert is currently undersized and has been a source of flooding in the area. The new culvert will be larger and will help to reduce the risk of flooding.

In order for the City to complete the design of the project, it will be necessary for the City to perform a survey of the area. The survey will help the City to determine the exact location of the culvert and the surrounding area.

The City is working with the Engineering Department to ensure that the project is done safely and efficiently. The City is also working with the Engineering Department to minimize the impact on residents and businesses during the construction process.

The City appreciates the cooperation of residents and property owners in the area as it moves forward with the project. The City will keep residents informed of the progress of the project and will provide updates on the City's website.

See More Spot Improvement Projects >>

NEWS

Flood Action Alexandria Investment Continues with Approved City Budget

The City Council has approved a budget for the fiscal year. An increase over the previous year's budget. The budget includes funding for the Flood Action Alexandria Program, which will be used to implement a number of projects that will help to reduce the risk of flooding in the city.

Some of the projects included in the budget are the construction of new flood walls, the installation of new drainage systems, and the purchase of flood-proofing equipment for homes and businesses.

In addition to funding capital improvements, the budget includes funding for water conservation programs and public education campaigns. These programs will help residents to reduce their water usage and to be more prepared for flooding events.

The approved budget is the result of a year-long process that involved input from residents, businesses, and stakeholders. The City Council held several public meetings to discuss the budget and to receive feedback from the community.

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Community Outreach to Begin for the City's Flood Flood Resilience

The City is preparing for the design of a project on Flood Flood Resilience. The project is located in the area of Naval Base Springs Park.

The Flood Flood Resilience Project includes installing inlets along Flood Flood Resilience. The inlets will help to collect and drain stormwater runoff from the surrounding area. The project will also include the installation of a new storm drain pipe that will connect the inlets to a nearby stream. The new storm drain pipe will help to reduce the risk of flooding in the area.

In order for the City to complete the design of the project, it will be necessary for the City to perform a survey of the area. The survey will help the City to determine the exact location of the inlets and storm drain pipe.

The City is working with the Engineering Department to ensure that the project is done safely and efficiently. The City is also working with the Engineering Department to minimize the impact on residents and businesses during the construction process.

The City appreciates the cooperation of residents and property owners in the area as it moves forward with the project. The City will keep residents informed of the progress of the project and will provide updates on the City's website.

First New Real-Time Bird Gauge Now in Place Near Collaborative Flood Map

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Visit this link to see an open location for the Flood Flood Update

Community participation is a key component of the Flood Flood Resilience Project. The City is encouraging residents to provide their feedback on the project and to participate in the upcoming community outreach events.

The City hosted the first online community event on April 15th. Which listed improvement of the Flood Flood Resilience Project. The event was attended by over 100 residents and stakeholders.

The City is also planning to host a series of in-person community outreach events in the coming months. These events will provide residents with an opportunity to learn more about the project and to provide their feedback.

The City encourages residents to provide their feedback on the project. Comments can be submitted online at the City's website or by mail to the City's Public Works Department. The City will consider all feedback when making decisions about the project.

Flood Action Flood Flood Resilience Project Update

The City appreciates the cooperation of residents and property owners in the area as it moves forward with the project. The City will keep residents informed of the progress of the project and will provide updates on the City's website.

Prepare Your Home for Hurricane Season

Prepare Your Home

Flood Action Advisory Group

The process of saving the world from climate change is a complex task, as it takes the mixture of

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The Flood Advisory Group's annual Flood Flood Resilience Project Update

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Any of it can be completed by phone, through the Flood 311 app, or on the flood311.com website.

COMMUNITY MAINTENANCE WORK

SNAPSHOT

Survey Team Reveal Program

The City completed a road survey on the Hanks Flood Flood Project.

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