



Legislation Text

File #: 18-661, Version: 1

TO: Mayor and Members of City Council

THRU: Kristoff Bauer, Deputy City Manager

FROM: Sheila Thomas-Ambat, PE, Interim Public Services Director

DATE: March 4, 2019

RE: Beaver Creek 2 and City Wide Stormwater Master Plan Update

COUNCIL DISTRICT(S):
All

Relationship To Strategic Plan:

Goal 3: High Quality Built Environment
Goal 4: Desirable Place to Live, Work and Recreate

Executive Summary:

As part of an effort to develop a City-wide stormwater master plan, the City retained the engineering firm Hazen and Sawyer to perform a watershed study on the Beaver Creek 2 watershed. Hazen will provide an over view of the components of the study, the work conducted over the past 12 months, and the focus of efforts going forward. Additionally City staff will update Council on the process and schedule to study the remainder of the City.

Background:

The area around Beaver Creek has, like many parts of the City, been prone to stormwater flooding issues as well as flooding along the creek itself. A watershed study examines both the creek and other surface waters (primary systems) along with the man-made stormwater structures (secondary systems) to determine what areas require improvements to reduce frequency of street flooding and property damage. Potential stormwater capital projects are then identified and prioritized based on established ranking criteria.

The Beaver Creek 2 watershed extends along both sides of Beaver Creek from Cliffdale Road south toward Hope Mills. It includes portions of the Hollywood Heights, Arran Lakes, Chesnutt Hills, Montclair, Creeks Edge neighborhoods as well as sections of Skibo Road, Raeford Road, Bingham Drive, and Hope Mills Road.

The Beaver Creek 2 watershed study was started in November 2017 and involved collecting data

from City records, resident surveys, field surveys, and GIS systems. The data was then incorporated into a model and verified against records of flooding from actual rain storm data.

Issues/Analysis:

N/A.

Budget Impact:

The watershed study is anticipated to produce several million dollars of possible projects. These will be incorporated into future stormwater Capital Improvement Plan (CIP) recommendations for the Council.

Options:

N/A

Recommended Action:

No action

Attachments:

- Council Update Beaver Creek Watershed
- Watershed Studies Program Update