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**INTEROFFICE MEMORANDUM**

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**TO:** SHERILYN LOMBOS, CITY MANAGER

**FROM:** KIM MCMILLAN, COMMUNITY DEVELOPMENT DIRECTOR

**SUBJECT:** BASALT CREEK STORMWATER ANALYSIS

**DATE:** FEBRUARY 18, 2021

**CC:** STEVE KOPER, ASSISTANT COMMUNITY DEVELOPMENT DIRECTOR  
SEAN BRADY, CITY ATTORNEY

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The City's current Stormwater Master Plan is from 1972. In 2016, the City embarked on updating the Stormwater Master Plan with the goal of replacing the outdated 1972 Stormwater Master Plan. The 2016 process culminated in the 2019 Stormwater Master Plan update. The 2019 Stormwater Master Plan update did not address the Basalt Creek area because the Stormwater Master Plan process began before the Basalt Creek expansion area and Concept Plan was approved. Given the outdated nature of the existing 1972 Stormwater Master Plan, Staff proposed adopting the 2019 Stormwater Master Plan update, despite it not including Basalt Creek. This was opposed by some existing residents in the Basalt Creek area.

The Council then directed staff to propose an approach to add the Basalt Creek area to the City's Stormwater Master Plan. The following describes an approach to include the City's urban planning areas:

1. Partner with Clean Water Services, Washington County, and the City of Wilsonville to study and coordinate stormwater needs.
2. Hire a consultant to assist the City with stream assessments, to establish baseline assessment of existing physical stream conditions, and identify existing problem areas such as locations of channel instability or excessive erosion. Brown & Caldwell is the consultant the city engaged for the 2019 Master Plan. Brown & Caldwell is also working with Wilsonville to initiate their city-wide stormwater master planning effort, which will also include Wilsonville's portion of the Basalt Creek basin.
3. Work with Clean Water Services in its current effort in sub-basin planning throughout the County to help identify whether the Basalt Creek basin warrants specialized stormwater management approaches.
4. Mapping or planning-related deliverables for Basalt Creek basin may include:
  - a. A drainage map of the area, which could identify steep slopes, soils, and a subbasin delineation. Steep slopes and tight soils (hydrologic soil groups C and D) may limit onsite stormwater management strategies (i.e., use of LIDA) that would be employed by new development. Identification of these areas would inform regulations and required setbacks/ protections.
  - b. An existing stormwater infrastructure map. The map could also identify potential downstream system constraints and help inform an area of influence specific for a downstream analysis. The current (2020) CWS Design and Construction

Standards require assessment ¼ mile downstream of development. If the development is within ¼ mile of existing infrastructure (pipes, basins, culverts, etc.) the developer would be informed early of identified infrastructure for the required downstream analysis.

5. Coordinate with Clean Water Services, which may include a public stormwater infrastructure plan and facility map that conceptually shows where stream enhancement, conveyance, detention, and treatment facilities may be located. This map may also identify vegetated corridors that have requirements pertaining to their condition as well as hydromodification risk areas. Implementation of this planning effort would be subject to development trends and activities.

This approach would require scoping, data compilation, coordination, and analysis, with refinement of the scope of assessments and mapping based on available information and to best address current stormwater concerns in Basalt Creek. To ensure engagement with CWS and the City of Wilsonville, the timeframe for implementation may be subject to change.

Depending upon the options/ activities selected, the cost of this planning work would vary. Preliminary schedules and cost estimates are being obtained.