



# City of Harrisonburg, Virginia

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STREET MAINTENANCE  
TRAFFIC ENGINEERING  
TRANSPORTATION PLANNING  
REFUSE/ RECYCLING  
CENTRAL STORES

TO: Kurt Hodgen, City Manager  
FROM: Thomas Hartman, PE, Assistant Director of Public Works  
DATE: September 26, 2017  
RE: Mountain View Drive Stream Study

**Summary:** The Public Works Department will provide an update on the Mountain View Drive Stream Study performed by A. Morton Thomas, Inc. (AMT).

**Background:** There is concern about stream erosion threatening private townhome properties along Mountain View Drive. On November 29, 2016 Nancy O'Hare, member of the Board of Directors for the University Core Townhouse Association, presented this concern to City Council. Ms. O'Hare has been in communication with Public Works staff since 2014. Staff attempted, but was not awarded, a grant effort to address the stream erosion concerns in 2014. On January 10, 2017, in response to this presentation, Council allocated monies towards a stream study.

At the same time as this stream study occurred, the City continued progress under contract with the same consultant, AMT, to develop a Stormwater Improvement Plan. As a part of the Stormwater Improvement Plan, potential stormwater facility and stream restoration locations will be evaluated through a prioritization and ranking process.

AMT performed an analysis of stream stabilization techniques that would protect city infrastructure and the private properties. It was determined from this analysis that the stabilization would be a short-term response and that the erosive damage would likely continue. For this reason, the study also considered a full corridor stream restoration. AMT also prepared cost estimates for Public Works staff for these stream stabilization project and stream restoration projects. Stream stabilization would cost \$350,000 and the full restoration would cost \$1,032,500. Water quality credits would not be eligible through the stream stabilization project, but they would be through the full stream restoration project. The full stream restoration project is estimated to remove 117.64 pounds of phosphorus at \$8,777/lb of phosphorus.

AMT and Public Works recommends progressing towards the full stream restoration option by including the stream restoration project in the city's Stormwater Improvement Plan which is in Phase II of development. This project would contribute to the overall pollutant removal goals of the state required Chesapeake Bay TMDL Action Plan and would be a long-term solution to the stream channel degradation along Mountain View Drive and downstream waterways.

In addition to adding this project to the Stormwater Improvement Plan, Public Works has learned of a possible grant opportunity that would provide funding for this project. The DuPont-Waynesboro Natural Resource Assessment and Restoration Settlement Grant is currently receiving applications, and Public Works recommends applying for this grant to fund full stream restoration project. Furthermore, the Public Works Department recommends that the Board of Directors for the University Core Townhouse Association and associated HOAs contribute all needed Right Of Way and easements for this project and this work would be facilitated by Public Works.

**Key Issues:** None.

**Environmental Impact:** To be determined through required project environmental documentation.

**Fiscal Impact:** None at this time.

**Prior Actions:** City staff applied for the Hurricane Sandy Coastal Resiliency Competitive Grant in 2014 which was not granted.

**Alternatives:** None.

**Community Engagement:** Stormwater Improvement Plan Public Information Meeting on March 22, 2016. This stream stretch was not explicitly discussed.

**Recommendation:** Include full corridor stream restoration in the Stormwater Improvement Plan, and apply for DuPont-Waynesboro Natural Resource Assessment and Restoration Settlement Grant.

**Attachments:** Final Stream Assessment Report

**Review:**

*The initiating Department Director will place in Legistar, in sequence of transmittal, the names of each department that must initial their review in order for this item to be placed on the City Council agenda. The completion of review only addresses the readiness of the issue for Council consideration. This does not address the recommendation for approval or denial of the issue.*

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