

**BOARD OF
SUPERVISORS WORK
SESSION:
STORMWATER
COMMITTEE
RECOMMENDATIONS**



STORMWATER ADVISORY COMMITTEE

- Formed in August of 2018
- Held five meetings from August 2018 – February 2019
- Comprised of citizens of varying backgrounds and expertise

TOPICS AND RECOMMENDATION AREAS

- County-wide flooding and stormwater runoff problems generally
- County's role in flood mitigation and stormwater management
- Specific stormwater runoff problems in the Lake Shenandoah Drainage Area and potential mitigation options
- Funding mechanisms for stormwater mitigation projects
- Higher standards

HIGHER STANDARDS FOR FUTURE DEVELOPMENT

- The current stormwater regulations are more comprehensive than past standards, and the committee believes that the current state requirements are adequate
- Continue the recently implemented practice of requiring engineers to provide FFE's at the time of site plan review for homes proposed on parcels subject to flooding up to a 100-year flood event
- Improve internal communication logistics across departments to ensure the homes are properly constructed

QUESTION 1:

- Does Rockingham County have an obligation to take action in areas that experience flood-related property damage?

QUESTION 1:

- Consider County-wide, in a variety of flooding scenarios (riverine, urban flooding)
- Committee opinion – Yes. No other organization is in a position to take action at a large scale

PROCEDURES TO IDENTIFY ACTION AREAS

- The County should -review problems that may arise on a case-by-case basis and categorize as either
 1. Debris clean-up after a flood event,
 2. Routine maintenance failure, or;
 3. Inadequate infrastructure based on a 10-year storm level of service

- A separate fund, utilizing general fund revenue, should be established to be used for debris clean up after flood events. Some areas may also have the potential for Federal or State grant funding for streambank protection types of projects

- The County should not undertake responsibility for routine maintenance of drainageways on private properties

- If areas prove to have inadequate infrastructure for a 10-year storm level of service, a similar approach should be undertaken as for the Lake Shenandoah Watershed

QUESTION 2:

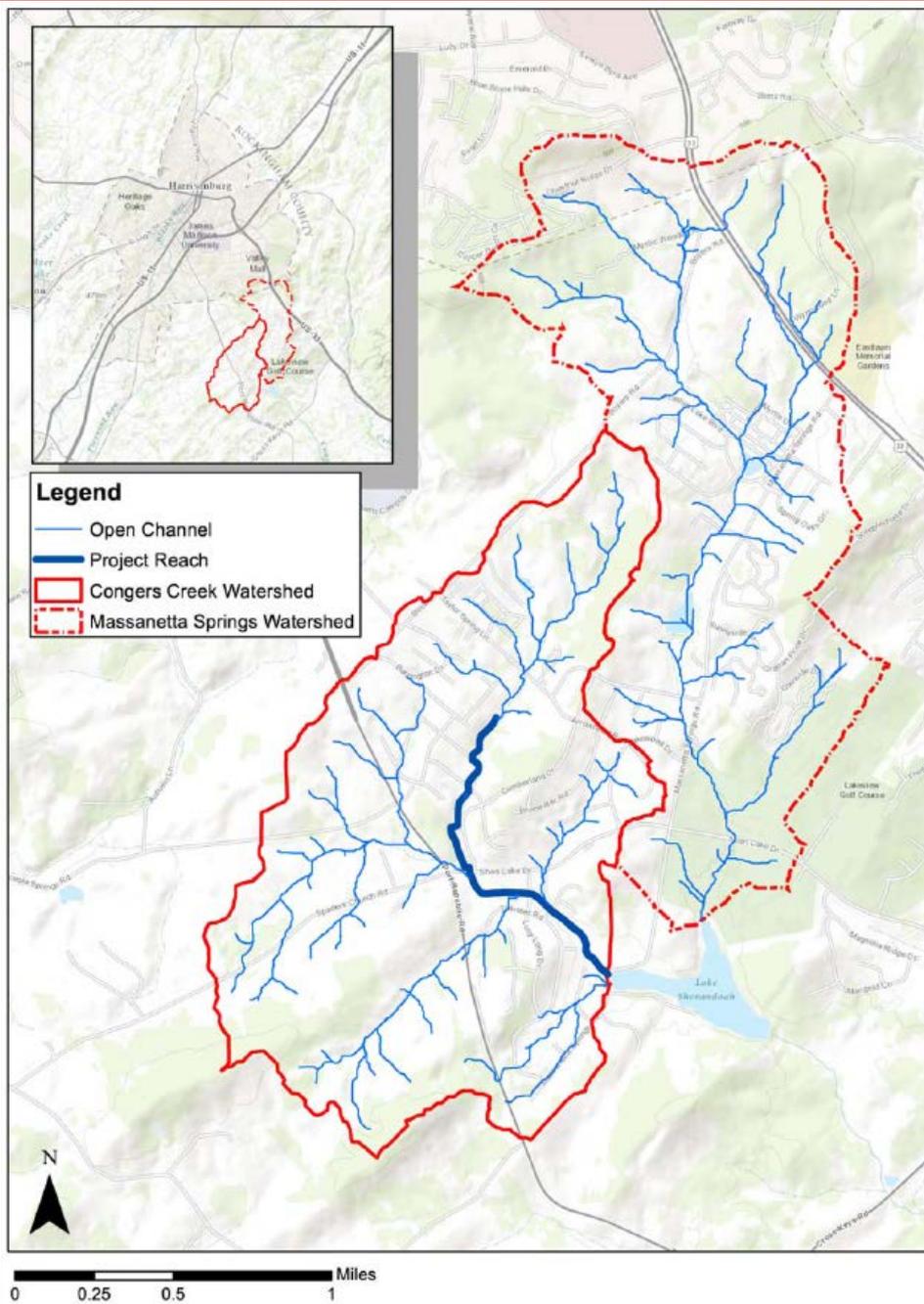
- For the Lake Shenandoah Drainage area, the Committee recommended additional engineering to determine the solution(s) with the best benefit-cost ratio for this inadequate drainage system. How should we fund studies and infrastructure work in this location?

QUESTION 2:

- **Some grant funding may be available – and is currently being pursued, but these funds are a one-time source**
- **VDOT Revenue-Sharing may be an option**

QUESTION 2:

- **For remaining costs and maintenance costs:**
 - Majority (but not all) committee members recommended funding from the General Fund
 - Staff recommends creation of specific fee or tax districts tied to specific improvements



Lake Shenandoah Drainage Area

FINANCING

- Estimated \$2.73 million in total improvements
- ~1800 homes in watershed
- \$1,516/ home
- Over 10 years \$151.60/year/home or \$12.63 per month
 - This would not include ongoing maintenance costs which would add another 10-20%