

Dept. of Facilities and Environmental Services	Albemarle County
Environmental Quarterly Report	Q1-FY19

This report includes environmental program updates for July, August, and September 2018.

Local Climate Action Planning and Energy Management:

- FES formalized contract for approximately \$50,000 funding for Local Energy Alliance Program (LEAP) to offer County residential property owners low-cost (\$45) Home Energy Check-Up (HECU), Energy Smart Rebate Program, Education and Outreach, plus a pilot Commercial Building Assessment program tied to the Better Business Challenge for County businesses. County residents who take advantage of this offering will receive:
 - A 90-minute visit from LEAP staff, an evaluation of their home's energy efficiency
 - Advice from one of LEAP's certified Residential Building Analysts
 - A blower door test for airtightness of home
 - An infrared camera scan for insulation of home (weather permitting--there needs to be at least a 10 degree difference between indoor and outdoor temperatures)
 - Installation of free energy efficient products such as LED light bulbs, pipe insulation, water saving showerheads and faucet aerators
 - A checklist of additional energy saving improvements for their home.
- Narissa Turner was hired as the County's first Climate Programs Coordinator. She will be implementing internal sustainability programs and working with other staff and community partners to develop a Climate Action Plan. Narissa is joining Albemarle County after receiving her Master of Art's in Climate and Society from Columbia University (2018) and Bachelor of Science in Natural Resources Recreation and Tourism from the University of Georgia (2017). Narissa previously worked with UGA's Office of Sustainability, Columbia University's Center for Water Conservation and the Center for Community Self-Help.
- The Crozet Library roof-top solar installation is anticipated to begin in November. The solar array will be comprised of sixty 360-watt panels, totaling 21.6 kW, and will produce approximately 31,157 kWh of electricity per year. Avoided greenhouse gas emissions are estimated at 13.3 metric tons of carbon dioxide equivalent per year. The contractor – Sigora Solar – anticipates that the work will take approximately one week to complete. FES will be communicating to the occupants and users of the Library and the Crozet community prior to commencement.

Drainage Infrastructure Management:

- Began video assessment of infrastructure within a pilot watershed containing approximately 20,000 linear feet of pipe, representing approximately eight percent of the known infrastructure in the urban area. Sent a letter to 150 property owners requesting permission to access the infrastructure on their property and received permission from almost all properties. County staff will continue to pursue permissions for all properties. The pilot watershed includes much of the area encompassed within the Hydraulic/Rio Road loop and the Fashion Square Mall and Glenwood Station properties (see Figure 1). Assessment work began in October and will conclude by the end of November.

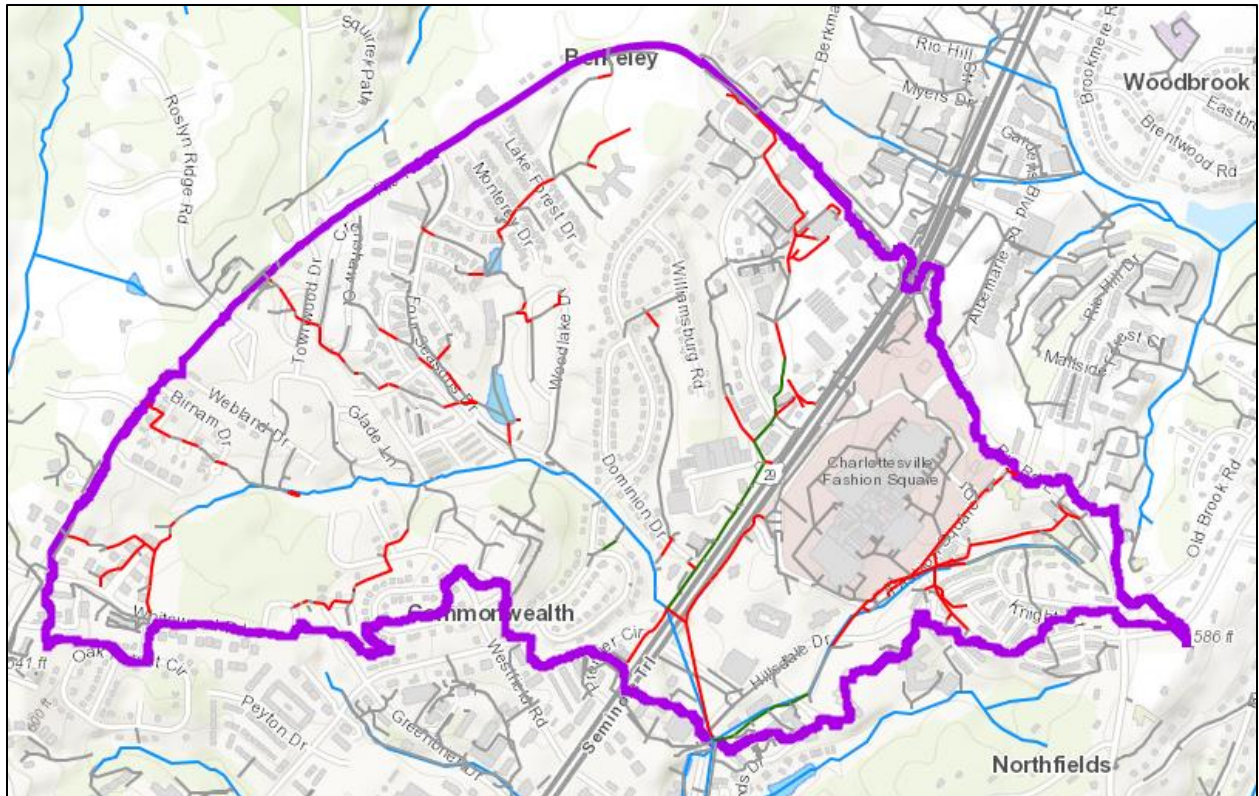


Figure 1: Pilot Watershed for Drainage Infrastructure Assessment Project (red lines depict those to be assessed)

- Conducted new inspections of 25 private and public stormwater management facilities to ensure proper operation and maintenance by the owners.

Water Quality Protection:

- Secured contractors for two water quality capital projects: Atkins Excavating, Inc. for Chapel Hills Stream Restoration and River Works Restorations, Inc. for River Run Stream Restoration. Notice to Proceed will be issued for both projects in October.
- Sent a letter to property owners in the Chris Greene Lake watershed describing the occurrence of algae blooms, pointing to excessive nutrients as the likely cause, and describing practices to reduce potential impacts to the lake.
- Continuing technical support for Rivanna Conservation Society's StreamWatch monitoring program throughout the Rivanna River basin.

Hollymead Dam:

- Selected Burleigh Construction as the contractor; their bid price was \$2,328,000. Notice to Proceed is anticipated to be issued in late October. More detailed information about the management of this project is included in updates from the Project Management Division.

Environmental Compliance:

- Parks and Recreation Chris Green Lake Park and Ivy Creek Natural Area well water systems successfully met Department of Health (DOH) water quality testing standards for bacteria.

Greenwood Community Center, Simpson Park, Walnut Creek Park and Mint Springs Parks all received compliance letters from the Department of Health (DOH) for violation of bacteria sampling. All waterworks sites were in full compliance following retesting.

- ACPD Regional Firearms Training Facility and the Former Yancey School waterworks system successfully met DOH water quality testing standards for quarterly bacteria test and monthly metered usage.
- One Safer Chemical waiver request approved
 - Scottsville Community Center Kitchen for insect infestation

Solid Waste and Recycling:

- Division staff continue to support the Solid Waste Alternatives Advisory Committee (SWAAC). SWAAC submitted Semi-Annual Report covering activities January – June 2018 on the August 2018 Board Consent Agenda.
- The Committee has been engaging in community outreach using new education videos. SWAAC members met with and presented to Sierra Club and some homeowner and neighborhood associations.

Abbreviations

BMP – Best Management Practice (aka, stormwater management facility)

DCR - Virginia Department of Conservation and Recreation

DEQ – Virginia Department of Environmental Quality

DMME - Virginia Department of Mines, Mineral, and Energy

DOH – Virginia Department of Health

MS4 – Municipal Separate Storm Sewer System

TMDL – Total Maximum Daily Load (used to denote the process to clean up impaired waters)

TMSWCD – Thomas Jefferson Soil and Water Conservation District