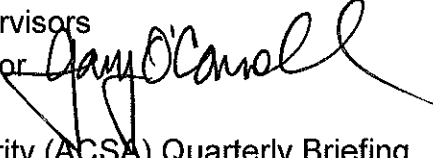


MEMORANDUM

To: Albemarle County Board of Supervisors
From: Gary O'Connell, Executive Director 
Date: January 25, 2017
Re: Albemarle County Service Authority (ACSA) Quarterly Briefing
cc: Mr. Doug Walker, Acting County Executive; ACSA Board of Directors;
ACSA Lead Team

As always we do appreciate your interest in the ACSA, and use this quarterly briefing as a chance to update you on our efforts in providing safe, clean, and reliable water. In the coming months, we will be heading into our budget and rate setting, and are very cognizant of having our customers see the good value that comes with Albemarle water. We are providing this report as an update and background for your February 1st meeting:

1. Imagine a Day Without Water - Successful Student Art Contest –

In August, the ACSA Board approved a Resolution proclaiming September 15, 2016 as "Imagine a Day Without Water". During that period ACSA partnered with RWSA and the City of Charlottesville in various events including a kickoff event on the downtown mall, educational advertising on social media, and presentations at area schools for students as well as a school-based artwork contest. The artwork contest was open to all Albemarle County students in grades 1 through 8, and 17 out of the 22 Albemarle County Schools participated.

The artwork contest was overwhelmingly successful with 448 student entries received. Albemarle County student artwork winners represented these County schools: Baker-Butler, Hollymead, and Brownsville. Attached are the student winner's artwork of their view of a day without water, quite a creative take on the theme.

2. Meter Replacement Program – Successful through our recent Meter Replacement Program, to replace identified meters more susceptible to failure. We completed the replacement of 3,743 meters. The project went very smoothly with virtually no customer issues.

3. **Strategic Plan** – Entering year four of the ACSA Strategic Plan. We have accomplished most of the 134 items that were identified, 4/5th complete. A copy of the report and updates is on our website, www.serviceauthority.org, click the banner.
4. **Vulnerability Assessment** – In partnership with the City, RWSA, and UVa water and sewer utilities, we are in the midst of assessing all our facilities for emergency planning purposes to identify any gaps or facility updates that are needed. This emergency planning is to reduce our system's risks and be better prepared for future natural or man-made disaster. In addition to the regional water utilities, the public safety departments have been actively involved. We expect a report in May from which we will develop an Emergency Response Plan.
5. **ACSA Capital Projects Update** – This section will update some of our current Capital Improvement Projects (CIP), and share some of the new projects that were approved in the FY 2017 CIP Budget.
 - **Water Tank Maintenance Program** - This is a comprehensive, multi-year and ongoing water storage tank maintenance and rehabilitation program for the eight tanks in the ACSA system. The goal is to have an ongoing review of our tanks to ensure they are kept in good condition to be able to serve the community. This year we are scheduled for inspection and cleaning on the Mosby Mountain, Avon Park, Ashcroft Lower and Ednam tanks.
 - **Key West Water Main Replacement** – The installation of a replacement water main has been completed. Replacement and the addition of new fire hydrants will improve the fire service in the neighborhood.
 - **Dunlora-Key West Water Interconnect** – A companion project is a new interconnect water main under the river that will provide additional redundancy and emergency backup, as well as improve water quality. The project has been completed.
 - **Westmoreland Water Main Replacement** – This project replaces nearly 50 year old water mains that have recently experienced multiple water leaks. Construction of the new water main is underway.
 - **Berkeley Water Main Replacement** – This project replaces water mains in the Berkeley subdivision that are failing and leaking. The lines are nearly 60 years old. Contract has been let, with work starting in early February.
 - **Glenmore Water Tank Project** – This project is for system redundancy and emergency backup. The present line extends 4 ½ miles to Glenmore. The project design is complete and ready for bidding for a new water tank to serve the Village of Rivanna. We are waiting on private development site grading that affects the new

waterline location and depth before the water tank project can be underway.

- **Ednam Water Pump Station Upgrade** – Another of the water system reliability and redundancy projects which will also increase the water pumping capacity. The project has been completed.
- **Crozet Phase 3 Water Main Replacement** – Design work to replace older water mains in Crozet is complete. We are obtaining easements.
- **Orchard Acres Water Main Replacement** – Older water mains to be replaced in Crozet. Design is complete and we are obtaining easements.
- **Greenbrier Drive Sewer Replacement** – Part of the Hillsdale Drive Road Project, this short section of sewer main will be replaced. A significant cost savings was achieved by combining this sewer main replacement with the planned road project. We expect the utility work to begin by early February.
- **Oak Hill Sewer Phase 2** – New sewer line to serve 20 homes in the Oak Hill subdivision. Community Development Block Grant funds through Albemarle County are being used to fund part of the project cost. Project is complete. We appreciate the County's assistance.
- **Camelot Sewer Rehabilitation** – Sewer replacement, relining, and manhole repairs to reduce infiltration and inflow are needed for a well-functioning sanitary sewer. Most of this work has been completed.
- **ACSA Facilities Master Plan** – Study underway to look at the future of ACSA properties (Crozet, Avon Street, Pantops) and develop a master plan for the long-term needs of the organization as we continue to grow and add customers.
- **Camelot Water Main Replacement** – Replacement of nearly 50 year old water mains that are also undersized. Design work is underway at the 50% stage.
- **Scottsville Water Main Replacement** – Replacement of an aging water main along East Main Street. We are in the 50% design stage on this project, with field surveying completed.
- **Barterbrook Water Main Replacement** – Replacement of aging and deteriorating water mains along Solomon Road, North Berkshire Road, and Inglewood Drive. We are at the 50% design stage on this project.
- **Madison Park Sewer Pump Station Upgrade** – This pump station is in need of upgrading and conversion to modern operating equipment. The Preliminary Engineering Report is complete and design work should begin soon.
- **Fontana Loop Water Connections** – New water main loops at Verona Drive and Olympia Drive will create secondary water feeds

for system redundancy and emergency backup to the Fontana subdivision.

- **West Woods Water Main Replacement** – The project completes the water main replacements along West Pines Drive. Construction will begin in early February.
- **Ashcroft Water Pump Stations Improvement** – This project will upgrade two existing water pump stations, which will result in quicker refill of the storage tank and improved water quality. Design is nearing completion.
- **Glenmore Drainage Basin Sewer System Study** – This project replaces the Pantops study due to the Rivanna Pump Station work being delayed which affects a study of wet weather flows. We have seen wet weather issues in the Glenmore system to the point that this drainage basin has become a priority.
- **Airport Sewer Collector Upgrade Evaluation** – The increased density in this area (Hollymead Town Center and Willow Glen) at build-out will exceed the capacity of the existing sewer main. This project will develop a plan for upgrading the sewer capacity of this collector line. The final Technical Memorandum is under review.

6. **Budget, Rates and Capital Improvements Program** – To be presented to the ACSA Board at the April Board meeting.

7. **Some ACSA Year-End Facts** –

- 18,982 water customers; 30,423 housing units;
- Serving an estimated 72,000 Albemarle County residents;
- 335 new water connections last year;
- 231,275 water meters read;
- 12,405 service orders;
- An average of 1.6 billion gallons of water use annually.

Thank you for the opportunity to once again share what is going on at your water agency, the Albemarle County Service Authority. I am more than glad to meet with you about any of our projects or facilities, or provide a tour if that would be useful.

Attachments:

- Imagine a Day Without Water Student Winner's Artwork

Event & Student Art Contest



Imagine a Day Without Water

September 15, 2016

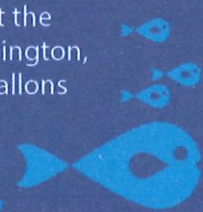
Imagine A Day Without Water:

Could you go a day without water? No water to drink or use to make food. No water to shower, flush the toilet, or brush your teeth. Firefighters couldn't put out fires, pools would be closed, and farmers couldn't water their crops.

1/5 of the water pipes in Los Angeles were installed before 1931.

Imagine a Day Without Water
September 15, 2016 #ValueWater

The aquatic exhibit at the National Zoo in Washington, DC uses 1.6 million gallons of water a day.



Imagine a Day Without Water
September 15, 2016 #ValueWater

2016 Imagine A Day Without Water Student Art Contest

Winners for the top poster in each age category and the Fan Favorite will be announced: Wednesday, November 16th

Awards Ceremony: Tuesday, November 29th, 5:30 pm - 6:30 pm at the Albemarle County Service Authority's Board Room located at 168 Spotnap Road, Charlottesville, VA

2016 Imagine A Day without Water Student Art Contest Winners:

The contest was a great success with over 445 poster entries and with representation from almost all City and County Public Schools, private schools, and other organizations, grades 1st through 8th. Judges from the City, ACSA, and RWSA helped evaluate the artwork for creativity, originality, and incorporation of the contest's message: "Imagine a Day without Water". One winner was chosen from the four grade divisions: 1st – 2nd, 3rd – 4th, 5th – 6th, and 7th – 8th. In addition, the top 60 entries were available to the public to view online and vote for a favorite art poster. With over 530 online votes, a fan favorite was selected. All 5 winners will receive a \$200 gift card, water conservation goodie bag, and have their artwork displayed around Charlottesville.

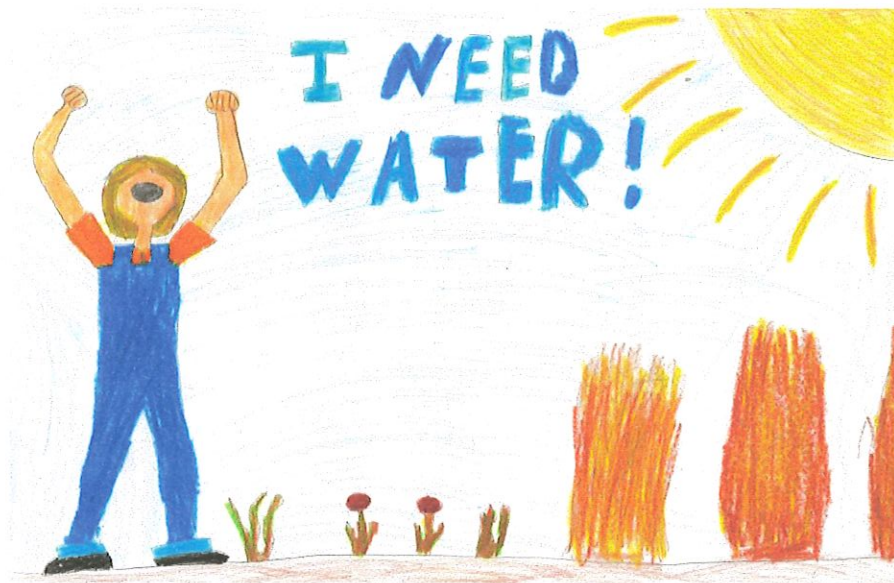
The student winners along with the four teachers will be recognized at the Imagine a Day without Water Awards Ceremony on **Tuesday, November 29th from 5:30 pm – 6:30 pm at the Albemarle County Service Authority's Board Room located at 168 Spotnap Road, Charlottesville, Virginia.** The event is open to the public and water saving giveaways will be available to all attendees. Public parking is available at the event location.



1st – 2nd Grade: Sarah Ni, Baker-Butler Elementary, Grade 2



7th – 8th Grade: Marco Lopez, Buford Middle School, Grade 8



Fan Favorite: Shilu DeBerry, Brownsville Elementary, Grade 4

In addition, teachers were encouraged to promote student participation by entering them into a drawing for a \$200 gift card to be used for classroom projects. Odds for winning were increased with greater student participation.

Four teachers were selected, and the winners of the teacher participation gift cards are the following:

Kelly Ewing from Agnor-Hurt Elementary School
 Desmond Cormier from Buford Middle School
 Tamara Murray from Charlottesville Day School
 John Russell from St. Anne's Belfield School.

CONGRATULATIONS TO ALL THAT PARTICIPATED AND THE WINNERS!