



December Topic of the Month

Professionalism
Recovery
Ownership
Attitude
Communication
Teamwork
Initiative
Value everyone
Efficiency

Water & Sewer Facilities Maintenance

We turn the faucet and water comes. We flush the toilet and stuff goes away. But the work that goes on to actually move these liquids is complex and impressive. The Water & Sewer Facilities Maintenance Team, eight full-time and one part-time employees, work hard to keep water and sewer moving to and from every corner of the Henderson County. To give an idea how vast the system is, it takes two crews three days to visit every site for routine maintenance.

The City's SCADA system (Supervisory Control And Data Acquisition) is the backbone of the City's water & sewer system. And ours is one of the best systems in the state. In fact Hendersonville ranks ????. There are 107 monitoring units throughout the County relaying data thru SCADA so employees can be dispatched to handle problems and emergencies. This data can be viewed on computers and at the treatment plants.

Water from the Water Treatment Plan on Haywood Road to pumped throughout the system which includes the reservoirs tanks on Ewart Hill. these hold 5 million gallons of water. WATER is alos pumped through 20 booster pump stations to 20 water tanks, the largest being 1.5 million gallons at Bearwallow Mountain. Some developments, such as High Vista and Kenmure, have two 80,000 gallon tanks each. Water tanks are built of multiple materials. We have eleven metal, two concrete and the blue ones you see are made of spun glass. One of the regulatory numbers for a water tank is the level and quality. Water can't sit for too long so the tanks are kept roughly a third full.

From the tanks, 35 hydro pump stations move this water up and over the terrain to homes and businesses. The flip side of the process are the 31 wastewater lift stations that grind up the waste and send it downhill to the Wastewater Treatment Plant on Balfour Road. Carriage Park alone has one water tank, one booster station, one hydro pump station and ten wastewater lift stations. This one development is similar to the system for the entire Town of Saluda.

With all these stations, imagine all the mechanical and electrical issues that can come up. Mechanical problems can included pressure gauges, strainers, pump seal failures, chains, floats, valves, drains, screens, leaks, and vents. As electricity keeps things moving, these concerns would be fuses, breakers, power meters, transformers, alarms and back-up generators, a job unto itself. As all of these stations and tanks require site maintenance, this Team also does fence repair, road clearing, painting and building maintenance is needed.

For the person leading this session, please sign below and return to your department head, who then send it to Lu Ann.

Leader _____ Dept. _____ Date _____