



# THE Pipeline

YOUR CURRENT WATER INFO SOURCE

## Winter 2020

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Rocky Mountain Water Environment Association (RMWEA) is a local Membership Association under the Water Environment Federation, an international not-for-profit association that provides technical education and training for thousands of water quality professionals who clean water and return it safely to the environment. RMWEA sponsored a contest for innovated wastewater treatment processes and examples of leading the wastewater treatment industry. ACWWA's clarifier system was sent in as a contender for efficiency and production of excellent secondary treatment process. ACWWA was chosen and will be a placeholder in the 2021 calendar!





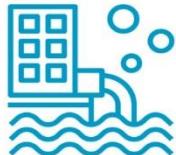
## Water Conservation, Reuse, and Recycling

Did you realize that the water from your toilet or your kitchen sink can be used to water golf courses, landscaping and grass fields at sports stadiums? This is a very interesting concept and a concept that most people don't realize takes place in our community.

Think of it this way, it doesn't seem economical to use high quality drinking water for landscape and irrigation purposes when instead you could use a recycled water. There's a lot money, energy and greenhouse gas emissions put into creating this high-quality product "Drinking Water." Which leaves the question, is there potentially other uses for this product? We need to be conscious of the all the possible usages to assure we're recycling this product just like we recycle paper, plastics and glass.

We perceive this as an opportunity here at ACWWA and have taken advantage of reusing a portion of 2.4 Million Gallons Per Day (MGD) of wastewater that flows through our Lone Tree Creek Water Reuse Facility. On average we recycle approximately 1.2 MGD in the summer months. That's enough water to fill 20,000 bathtubs per day! That's 1.2 MGD not being pulled from our rivers, wells and aquifers. This recycled water meets all health and environmental regulatory standards set forth by the Colorado Department of Public Health and Environment (CDPHE) before we send back out to be reused for landscape purposes. The program is an excellent method ACWWA is currently using to conserve our natural resources and assure we're doing our part for future generations.

Treat challenging streams



Fail-safe purity



Cost-effective water treatment



Meet new regulatory requirements



# CHAMBERS RESERVOIR RECONSTRUCTION PHASE 2



## PROJECT DESCRIPTION

Phase 2 of the Chambers Reservoir Reconstruction Project consisted of upgrading an existing earthen raw water storage reservoir and fabricating and installing a 45 Mil thick, reinforced polyethylene with a 16oz. geotextile underlayment for protection. 6,600 LF of black safety ladders were installed around the perimeter to ensure safety while accessing or egressing the reservoir.

The use of the reinforced polyethylene greatly reduced slope creep & wrinkles at the toe of slope that is common for reservoirs of this size. Furthermore, the use of intermittent berms across the floor prevented erosion and subgrade issues from rain events throughout the installation process.

Large prefabricated panels maximized production and shortened the overall installation time greatly - something that was crucial to beat deadlines and the fall / winter weather common for Colorado. Panels were factory fabricated to minimize field seams. One hundred panels were delivered that were 250 feet long by 100 feet wide. A total of 25,000 feet of field seams were installed, and all seams were visually and mechanically tested.



## HAPPY HOLIDAYS *from* ACWWA

While 2020 brought its challenges to many of us, the employees of ACWWA were determined to not be deterred in their efforts to reach out to those neighbors in need. We again participated in Arapahoe County's program, Partnering for the Holidays. This program serves families in need, specifically children and adults who have been victims of abuse and neglect or are experiencing financial hardship. Monetary donations were collected from employees, and in an effort to reduce the risk of spreading COVID, volunteers from ACWWA purchased and delivered gift cards to the Arapahoe County "Holiday Store." It gave ACWWA employees a chance to connect with their community at this special time of year!

Some families will be picking up their gift cards at the Arapahoe County-Aurora office. Please consider **volunteering** December 14-18 to help with this process. Sign up through Signup Genius.

The direct link is <https://www.signupgenius.com/go/20F0B4AA8AB2CA7FC1-partnering>