

THE Pipeline

YOUR CURRENT WATER INFO SOURCE

Spring 2018

In this edition...

- A Day in the Life of
~ Marc
- ACWWA Flow
Project Update
- New Customers
- Sprinkler Tips
- 2018 Watering
Schedule



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Day in the Life of

Meet Marc ~

ACWWA's wastewater treatment plant, the Lonetree Creek Water Reuse Facility (LTCWRF) treats an average of 2.46 million gallons of wastewater per day, which generates 560 dry metric tons annually of biosolids. The responsibility of ensuring that the plant runs as it is supposed to flows to Marc, Superintendent of the LTCWRF. Marc has worked at the plant for 13 years and has been superintendent since 2010. He has achieved his "A" wastewater certification, as well as a Collections 4 certification. Marc initially got interested in wastewater treatment when he was enrolled in the Water Quality Management Program at Red Rocks Community College. Marc supervises a staff of four operators, one of whom is also the lab technician.



Marc's daily routine generally consists of reviewing data generated by the Supervisory Control and Data Acquisition system (SCADA) about plant operations, and making process adjustments as required. Marc looks at E.coli counts, phosphorus uptake rates, ammonia, nitrate, phosphorus, total suspended solids (TSS) and biochemical oxygen demand (BOD) removal efficiencies. The results of these numbers show the effectiveness of the treatment process and provide trackable history for troubleshooting problems and making corrections.

The treatment of wastewater is a complex process, and one that is highly regulated by the Colorado Department of Health and Environment (CDPHE). Wastewater flows into the plant via ACWWA's collection system, and first goes to an area called headworks, which filters out large debris. Next, the wastewater is pumped to the biological nutrient removal system (BNR) tanks, where bacteria convert the waste from a toxic to a non-toxic form. Phosphorus is removed by manipulating the biology to store the phosphorus in their bodies, and is removed in the next step of the process. The water then goes to large clarifiers where the solids settle out, and the clean water moves on to its final filtration process by way of mixed-media sand filters. Once the water has been filtered, it is discharged into Lone Tree Creek, or goes into the reclaimed water system, where it can be used for irrigation purposes.

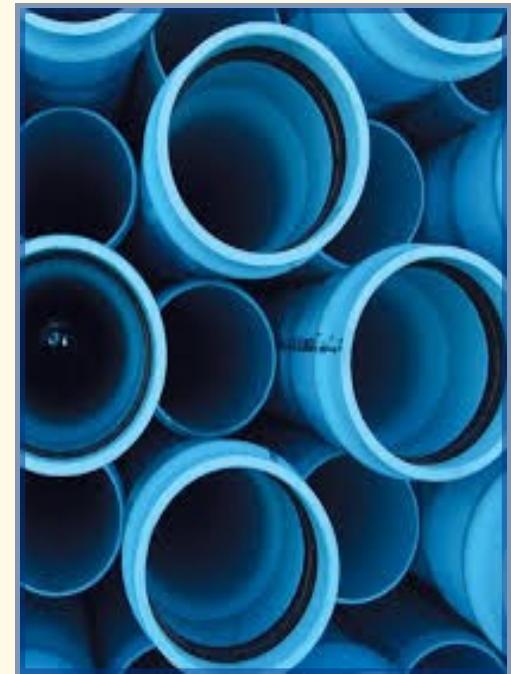
Marc's main challenges as plant superintendent relate to staying up with current and new CDPHE regulations to ensure compliance, and dealing with the issues that come with a plant that is nearing 10 years old. Most of the equipment – pumps, motors, blowers, etc., run 24/7, so it's crucial that preventive maintenance is scheduled and performed on all equipment to keep the plant running effectively.

As the world's population continues to grow and water becomes more scarce, effective treatment of wastewater to a potable form will be critical, and people with Marc's skills and experience will help drive this evolution.

Marc conducts tours of the LTCWRF to groups of five to 20 people. Please visit the "About Us" tab on our website at acwwa.com for more information and instructions for scheduling a tour.

ACWWA FLOW Project Update — ACWWA Connecting Main Project

The ACWWA Connecting Main Project is a multi-phase project that will ultimately result in a permanent water-line connection to the East Cherry Creek Valley Water and Sanitation (ECCV) water distribution system. This pipeline connection will allow ACWWA to receive the full ACWWA Flow Project deliveries of 5.25 MGD. Several phases of the project have been completed or are currently under construction. The fourth segment, called Phase 2B, will allow the total flow of more than 2.25 MGD of potable water and will extend the existing 24-inch water line through the Liverpool Open Space at the northeast corner of Arapahoe Road and Liverpool Street to the point of connection at East Euclid Drive and Liverpool Street.



The routing of the line and design of the installation is complete. ACWWA has received notifications that construction activities have been reviewed by the following entities and agencies:

- City of Centennial – for Liverpool Street roadway construction
- Liverpool Metro District and Greenfield HOA
- Southeast Metro Stormwater Authority/Arapahoe County
- City of Aurora – for license agreement due to crossing a sewer line at Liverpool Street



At a meeting with the Liverpool Metro District/Greenfield HOA, the District authorized their community manager to work with ACWWA to finalize the needed easements.

The final phase of construction is planned for 2019 – to extend the pipeline to the intersection of Liverpool Street and Smoky Hill Road. This final stretch of pipeline installation is planned to be designed in 2018 and constructed in the first half of 2019 and will complete the improvements needed to enable the full 5.25 million gallons per day flow of potable water to ACWWA for the ACWWA Flow Project. This is being coordinated with the City of Centennial's Street Program.



ACWWA's

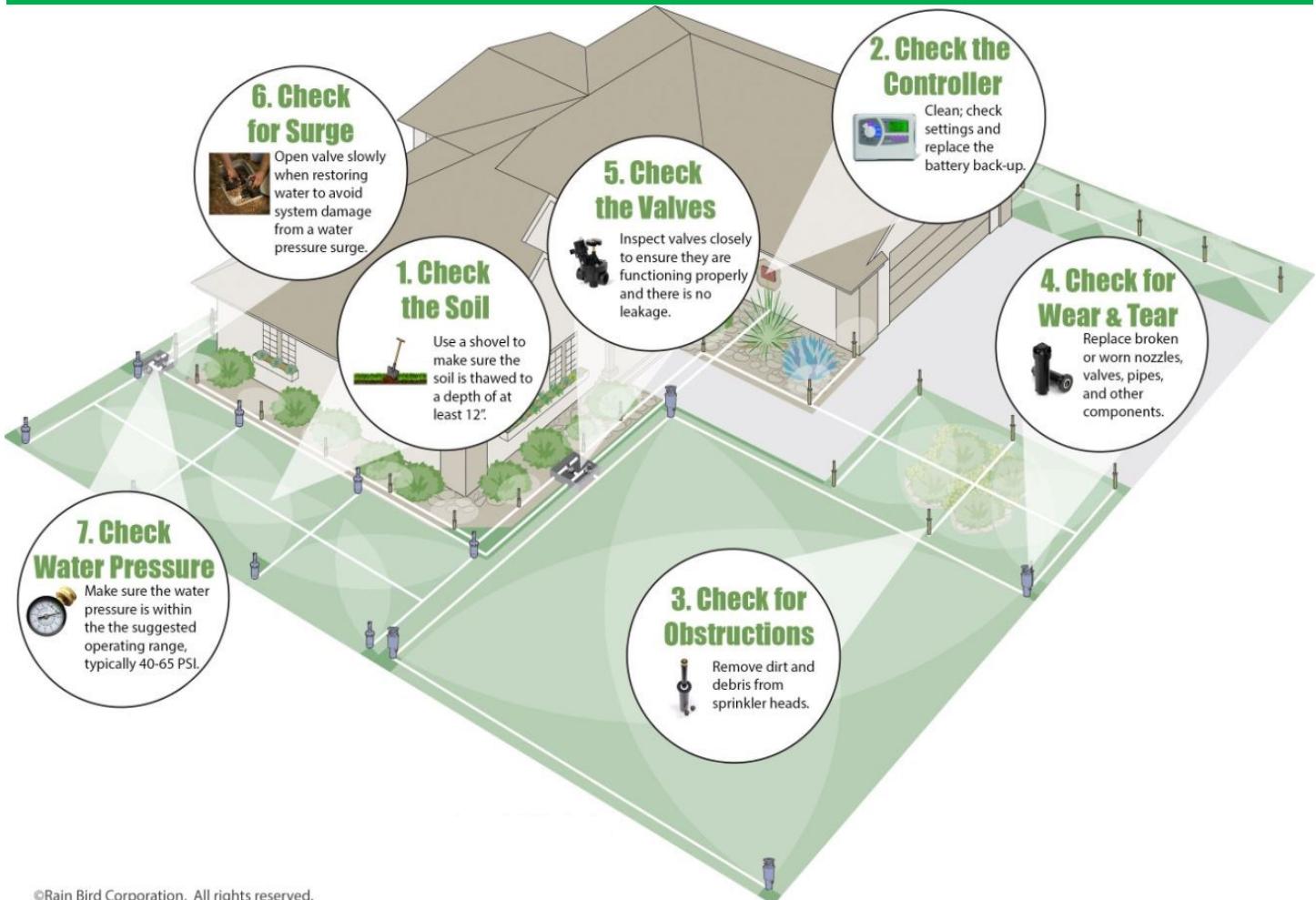
new news

Introducing ACWWA's *Welcome New Customer Packet* for our new home and commercial owners.



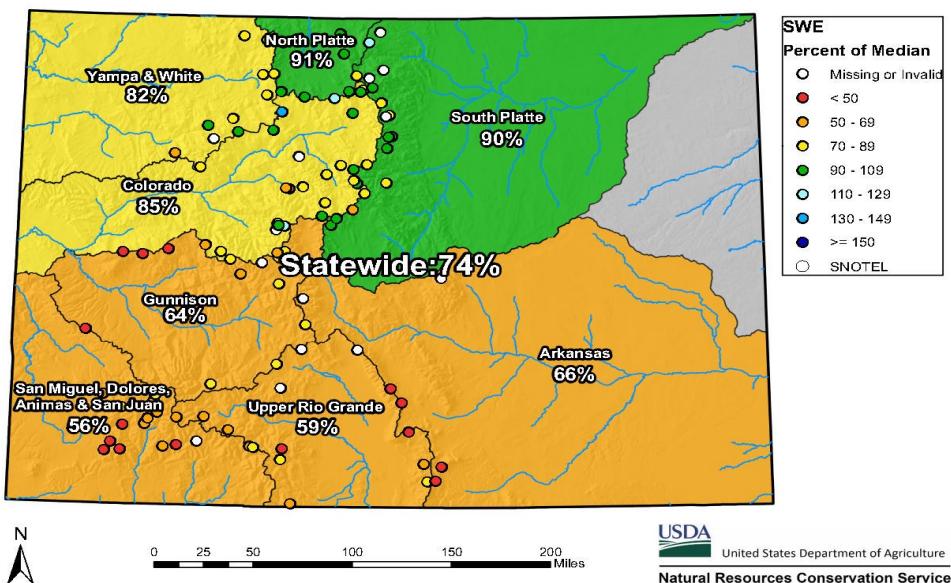
To help you get acquainted with ACWWA, a Welcome Packet will be sent to you and your family. You can also find a PDF version of the Welcome Packet at: acwwa.com/2150/Customer-Resources. If we can be of service to you, contact us either in person at 13031 E. Caley Ave., Centennial, CO., or call us at (303) 790-4830.

Springtime Sprinkler Tune-Up Checklist



Colorado SNOTEL Snow Water Equivalent (SWE) Update Map with Site Data

Current as of Feb 27, 2018



A look at data collected from

SNOTEL that helps water forecasters predict the amount of water within the snowpack.

The timing of snowmelt determines when streams and rivers hit peak runoff and how long flows might last.

Snowpack can put stress on water supply so please use water wisely!

2018 VOLUNTARY WATERING SCHEDULE

ACWWA keeps a close eye on its water supplies and will enact watering restrictions if necessary. For now, ACWWA is in Stage 1 of its Water Conservation Response Plan, which encourages a voluntary watering schedule (see below). ACWWA will provide information regarding any changes to the plan as the year progresses on its website, utility bills and other communications. The Water Conservation Response Plan can be found on our website under the Water Efficiency tab (acwwa.com/water-efficiency).

MAY

S	M	T	W	T	F	S
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE

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JULY

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29	30	31				

AUGUST

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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Watering is according to the last two (2) digits of your address. If your address end in digits:

0 – 30 Water on

31 – 60 Water on

61 – 99 Water on