

Irrigation 101

Clearwater Farms Unit 4, 5, 6, 7

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System Components

- Our irrigation system is a Gravity Fed System sourced from Lake Pleasant. In our community the system is operated as a partnership between Maricopa Water District (MWD) and Clearwater Farms.
- Water is delivered from Lake Pleasant to the area via Beardsley Canal. The canal runs from the North to South about a mile West of our Community.
- From the canal, MWD manages delivery via a gate/valve system which transports the water along Glendale Avenue to the neighborhood via a single feed.
- This feed sources water to Three Distribution Boxes **ON** Glendale Road at the intersections below
 - North East side of Alley between 185th and 186th - feeds properties on West side of 185th - the first point water enters the system maintained by Clearwater Farms.
 - NorthEast corner of 185th - feeds properties on East side of 185th - the next point water enters the system maintained by Clearwater Farms.
 - NorthEast side of the Alley Between 183rd and 185th - feeds properties on 183rd - the final distribution point in the Clearwater Farms system.
- On Property Valve and Standpipe - depending on property size, you may have one, two or three valves.

Distribution Boxes

- Alley between 185th and 186th - this box has two gates.
 - The South Gate feeds properties on West side of 185th
 - The East Gate feeds the remainder of the system
- NorthEast corner of 185th - this box has two gates.
 - The South Gate feeds properties on East side of 185th
 - The East Gate feeds the final distribution box in the alley between 183rd and 185th
- Alley Between 183rd and 185th - this box has one gate.
 - The South Gate feeds properties on the West side of 183rd.

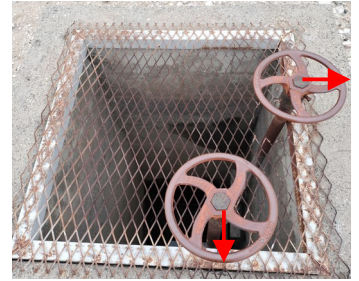


Reading the Schedule

- Water is delivered based on an ordered number of hours. Half hour increments are supported.
- You are responsible for management of the entire system during your scheduled time. This includes the proper operation of the valves on your property AND the distribution boxes along Glendale.
- You are responsible for opening and closing your property valves at the time shown on the schedule. You are also responsible for confirming the resident AFTER you has opened their valve and is taking water BEFORE closing your valve.
- An Asterisk next to your name means you're the first on your street to take water and need to make necessary adjustments to ALL of the distribution boxes on Glendale to ensure proper operation.
- By ordering the number of hours you have requested, you are responsible for taking the amount of water delivered during that timeframe. If you are not able to take the delivered amount of water, you are responsible for having a backup plan to deal with the ordered water you cannot take. The water will be delivered by MWD. By ordering, you are committing to delivery.

I'm First on My Street

- Start by fully opening the valves on your property. If there is water in the pipe from the previous cycle, you will may see some flow immediately. Once your property valves are fully open, head up to Glendale to get the Distribution Boxes set up properly.
- Distribution Box settings are different depending on which street is taking water. Improper settings can result in low flow and possible system or property damage.
 - West side of 183rd taking water
 - Alley between 185th and 186th – South Gate Closed, East Gate Open
 - NorthEast corner of 185th – South Gate Closed, East Gate Open
 - Alley Between 183rd and 185th – South Gate Open
 - East side of 185th taking water
 - Alley between 185th and 186th – South Gate Closed, East Gate Open
 - NorthEast corner of 185th – South Gate Open, East Gate Closed
 - Alley Between 183rd and 185th – South Gate Closed
 - West side of 185th taking water
 - Alley between 185th and 186th – South Gate Open, East Gate Closed
 - NorthEast corner of 185th – South Gate Closed, East Gate Closed
 - Alley Between 183rd and 185th – South Gate Closed



Beginning and Ending My Time

- The valves on your property are a simple screw-type hat and rubber gasket.
- Each property has a different setup and thus different valve operation settings.
- You are expected to receive the full delivery for the time ordered.
- When your time arrives, open your valve(s) fully. You can adjust them to any level of open so long as 100% of the delivered flow is being distributed. The flow rate between cycles depends on how much MWD is sending us. It typically doesn't vary by much but can. If you are only seeing a trickle, refer to troubleshooting slide.
- At the end of your time, watch for a change in flow. This is indicative of the next neighbor on the schedule opening their valves. You are responsible for ensuring your neighbors valves are open BEFORE closing yours. Close your valves wrist tight. Over torquing the hat can permanently damage the valve resulting in costly repairs and system downtime.



Basic Troubleshooting

- Low Flow
 - Check properties to the North and South of yours for open valves. A little leakage can be expected. You're looking for valves that are flowing significantly.
 - Check the gate setup on Glendale. Refer to slide 6 for the proper gate setup for your property.
 - Check for open valves on other streets.
 - Contact the watermasters. Phone numbers can be found on the POA website.
- Equipment Failure
 - Contact the watermaster immediately. Phone numbers can be found on the POA website.
- I only run one valve on my property and the standpipe overflows into the alley
 - You are still required to take the delivered volume of water in this situation. Operation this way is your choice and requires your system be designed properly for this kind of operation. A basic system modification is possible to support this which can be explained by the Watermasters. Contact the watermasters via the phone numbers found on the POA website.