CCMWA Water Treatment Process

"Raw" water is pumped in from the source, such as a lake or river.

**Raw Water Meter**

CCMWA collects and treats the **Settled Solids** that come out of the sedimentation process and spreads these **Residuals** on nearby farmland to restore pH in the soil to an ideal agricultural level.

**Aluminum Sulfate** is added to help organic matter such as dirt and algae clump together (COAGULATION).

**FLOCCULATION agitates the water so organic matter will continue to clump. Then the water is slowed down so the SEDIMENT can settle to the bottom of the basin.**

**Flocculation & Sedimentation Basins**

CCMWA's water treatment plants use gravity, instead of pumps, as much as possible to move water through the treatment process, thus saving energy and money.

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**Raw Water Meter**

The treatment process begins here with **OXIDATION AND COAGULATION.**

**Chlorine Dioxide or Sodium Hypochlorite** are added to aid removal of naturally occurring iron and manganese, which are stain-causing minerals. (OXIDATION).

**Aluminum Sulfate** is added to help organic matter such as dirt and algae clump together (COAGULATION).

**Filtration**

The water is further filtered through anthracite coal and sand.

**Filtration**

A portion of the filtered water gets additional treatment by flowing through **Granular Activated Carbon**, which removes natural, organic compounds that produce byproducts during the disinfection process.

**Sodium Hypochlorite** is added for disinfection.

**Fluoride** is added, per state regulation.

**Lime** is added to control corrosion in pipes.

**Clearwells**

**Clearwells** give the chemicals time to fully react and disinfect the water before it is distributed.

**“Finished” Water Meter:**
Water flow is measured at both ends of the treatment process.

**Clean, safe water goes through our transmission system to our customers’ systems.**

All water that’s discarded during the treatment process is recycled, going through the treatment process again to become drinking water.

"Finished" Water Meter:
Water flow is measured at both ends of the treatment process.