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| Screening | Water from river, reservoir, or well – remove leaves, twigs and other large objects |
| Because these objects would clog the filters and machinery used in the rest of the treatment process (does not affect water quality) | http://www.waterwise.co.za/export/sites/water-wise/images/water/screening.jpg |
| Coagulation | Chemicals added to cause small sediment to stick together, forming flocs (clumps of sediment) |
| Because this process makes it easier to remove/filter sediment when it is clumped together | https://i.ytimg.com/vi/V-yVLyZuVJA/0.jpg |
| Sedimentation | Gravity causes sediment/flocs to settle at the bottom of the tank and surface water is moved to a clean tank |
| Because water with sediment is unappetizing, sediment can carry contaminants (chemical & biological) and sediment can shield contaminants during disinfection process | http://www.greensboro-nc.gov/modules/showimage.aspx?imageid=13688 |
| Filtration | Removes chemical and biological contaminants |
| Chemical contaminants can create bad smells and even disease if consumed. Biological contaminants can cause disease. | http://aemstatic-ww1.azureedge.net/content/dam/etc/medialib/new-lib/waterworld/print-articles/volume-28/issue%207/brown-twin-oaks-1207ww.jpg |
| Disinfection | Chemicals (mainly chlorine) added to kill micro-organisms such as bacteria and followed by neutralization of any excess |
| Because it kills the bacteria that could cause disease | http://dofbill.com/wp-content/uploads/2016/06/Water-Filter-Gallery-MWW-LinnwoodPlant.jpg |
| Storage | Water is kept in tanks until piped/pumped out to the community |
| Treatment process takes time, allows for quick access to vital resource | https://www.pub.gov.sg/PublishingImages/PUB_CWRP_Facility_HR-43%283%29.jpg |