

## SBR Seeding Procedures

1. 270,000 gallons of 1.5% solids activated sludge is required per SBR basin. Seed sludge shall be from the existing oxidation ditch WWTP thickened return line from a secondary clarifier at this site. 1/2/3/4 SBR basins will be seeded at a time.
2. Seed sludge must be introduced to the SBR basins through the headworks.
3. As a minimum the mixed liquor suspended solids in the new tanks should have enough solids to settle in a reasonable time, 60 minutes. Typical minimum mixed liquor suspended solids will be 1,500 mg/l at Top Water Level.
4. Verify minimum operating pressure for the SBR blowers and do not place the blowers into Auto until that side water depth has been achieved.
5. After seeding influent will need to be fed to the tank to start growing the mixed liquor suspended solids. The SBR tanks to be seeded should be placed in automatic with all of the equipment associated with the SBR to be in automatic so the filling of the SBR tanks will be per the SBR control panel program. This will allow the mixed liquor suspended solids to grow and get the biomass accustomed to the cycles.
6. Filling and growing activated sludge may take several days. Do not allow the SBR to decant until Top Water Level is reached and the solids are settling well.
7. The SBR tanks maybe set to automatic and cycle through as the influent is fed to the tanks. Allow the seeded SBR basins to run in Auto with close supervision. The typical plant will achieve effluent requirements within 2-4 weeks. Temperature will have a large impact on the time it takes to meet permit requirements. Start-up at liquid temperatures above 15°C is ideal.