» Primary clarifiers

» Digester supernatant

» Biological reactor

» Secondary clarifier

» Pre-filter

» Addition of chemicals for precipitation, typically include Ferric Chloride (Ferric), Aluminum (Alum), PACl (polyaluminum chloride)

- Addition of polymer is sometimes required to create stable floc

» Typically water based, anionic

» Dosage usually 0.1 mg/l – 1.0 mg/l

» Requires flocculation process

- Solids-liquid separation

- Removes only particle-associated Phosphorous

BNR Suspended Solids Typically Contain 3-5% Phosphorus

Effluent TSS (mg/l)	P in Effluent TSS (mg/l)
2	0.06-0.10
5	0.15-0.25
10	0.3-0.5
15	0.45-0.75

Data excludes soluble phosphorus

- AquaDisk®, Aqua MiniDisk®, AquaDiamond®, AquaDrum®, AquaABF®

» Effluent quality of < 0.1 mg/l Total Phosphorous can be achieved, depending on soluble concentration

- AquaMB Process, Aqua-Aerobic MBR

» Effluent quality as low as 0.04 mg/l Total Phosphorous can be achieved, depending on soluble concentration