BIOSTYR® DUO
The powerful combination of MBBR and BIOSTYR®

Adding More Surface Area

In BIOSTYR® DUO, MBBR media is added in series with the BIOSTYRENE™ beads. These two stages of treatment in a single reactor provide for additional loading and removal than the traditional BIOSTYR. In the traditional BIOSTYR system, there is a 5-foot expansion zone below the buoyant BIOSTYRENE media. By filling this zone with AnoxKaldnes K5 media, the combined BIOSTYR DUO system can be loaded at higher rates for NH4-N, COD, and TSS removal. The BIOSTYR DUO system can therefore treat more wastewater in a smaller footprint and saves on the total constructed cost of the treatment system.

Benefits

- More treatment in the same footprint
- Minimal change in headloss
- Less stringent primary removal required upstream
- MBBR media provides an additional barrier to retain BIOSTYRENE™ media

Easy, Energy-Efficient Operation

BIOSTYR DUO has all the all the operational advantages of traditional BIOSTYR:

- Fully automated operation
- System is simple to run
- Little to no operator intervention is required
- Gravity-driven backwash saves energy