



Combine Filtration with Biological Treatment

Short HRT, Small Footprint

Maximum Peak Flow Flexibility (up to 4x)

Reduced Disinfectant Demand

High Rate Solids Removal in lower (anoxic) filter layer

- Rapid Startup (reduces EQ required)
- Consistent TSS output
 - Less violations
 - Reduces chlorine demand & contact time
 - Less disinfectant dosing swings
- Higher TSS removal than primaries
 - Less aeration & more capacity in secondaries
 - More biogas production

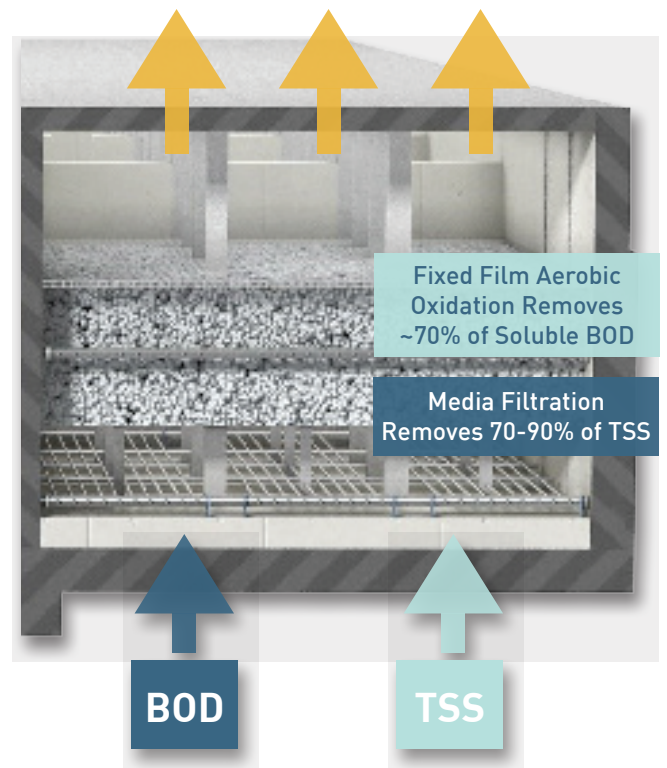
Rapid Biological Treatment in Aerated Upper Bed

1. Short HRT, Small footprint:
 - As low as 15min aerobic EBCT
2. Maximum removal consistency
3. Maximum peak flow flexibility:
 - Peaks of 4x design flow can still be filtered
4. No chemicals
5. Reduce total & fecal coliforms
6. No recycle streams
 - Eliminates intermediate pumping

PROTEUS is a high-rate media filtration system. Using proprietary floating media, it effectively removes suspended solids and particulate organics through physical filtration.

The PROTEUS PLUS system adds integrated aeration and fixed biofilms for high-rate biological treatment of wet weather flows. With continuous aeration capabilities and no settling required, the system can manage high peaking factors and variable flow rates, simplifying the treatment of dilute flows.

Biologically-Treated Effluent to Disinfection



WET WEATHER PEAK FLOW



Reference Sites



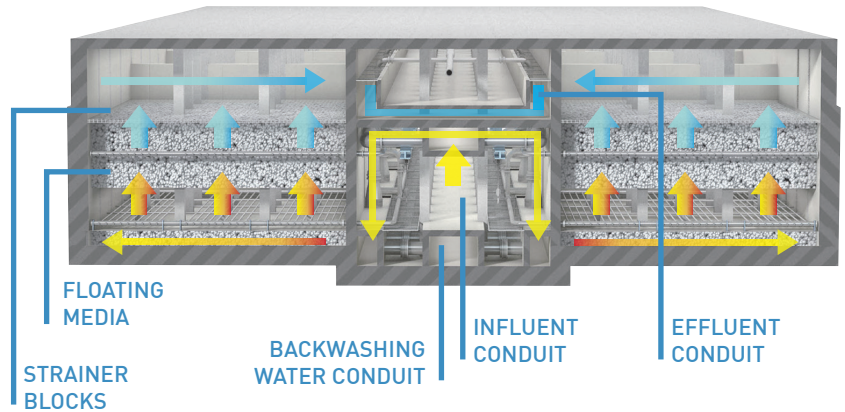
SEONAM WWTP | 190 MGD
Comissioning Jan 2020



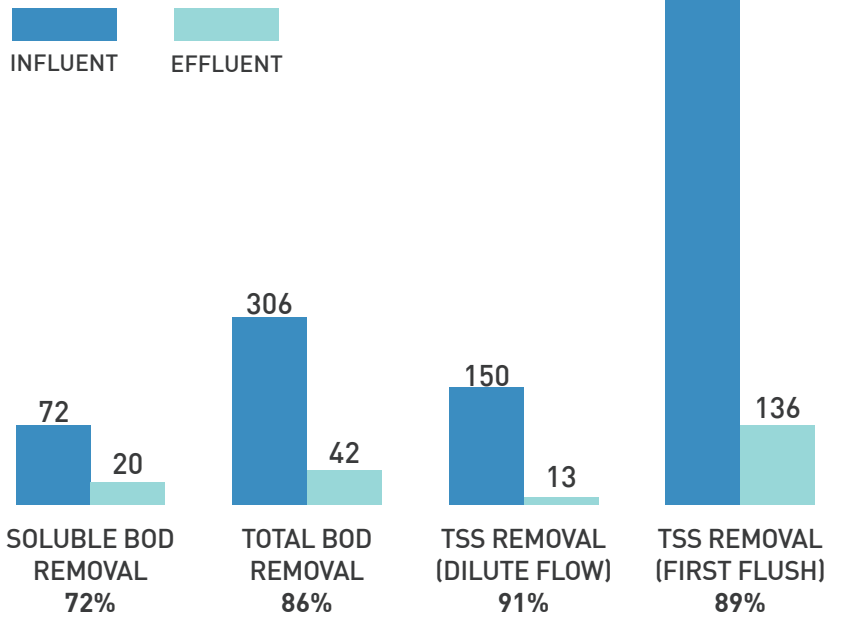
JUNGNANG WWTP | 132 MGD
April 2018



HADO WWTP | 16.4 MGD
February 2017



PROTEUS+ WWF Performance at 15 mins Aerobic EBCT



The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

If you'd like to learn more, please contact info@tomorrowwater.com

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