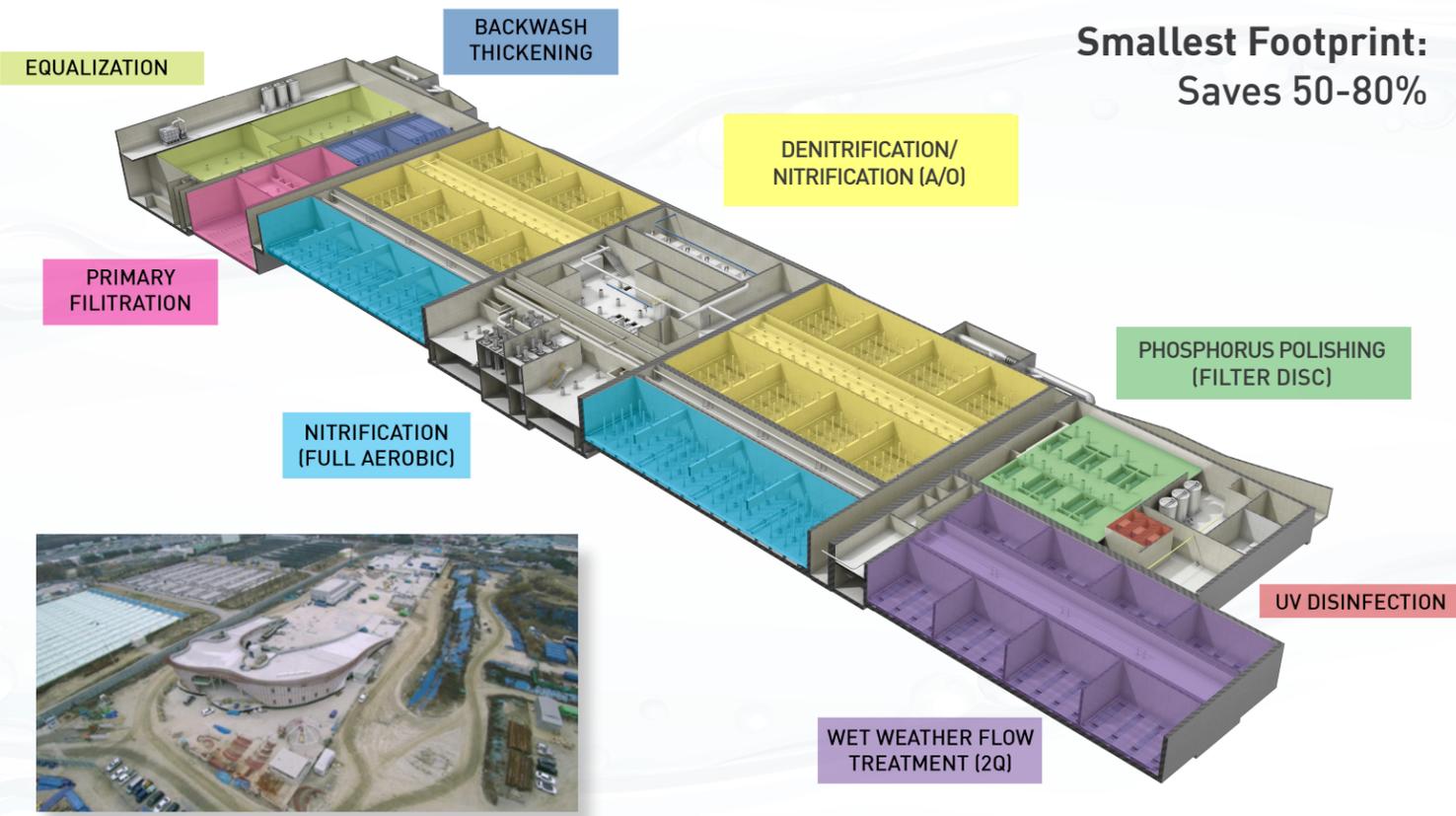
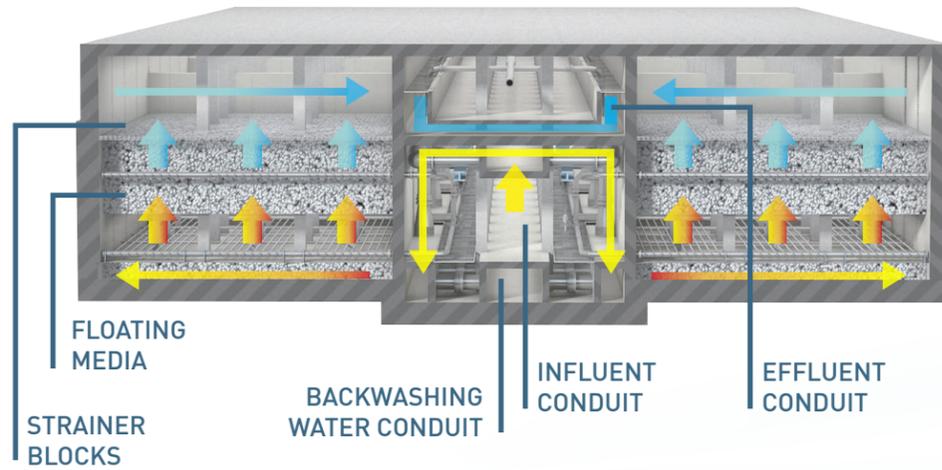


- Up-flow Biological Aerated Filter
- Expanded Polypropylene (EPP) Floating Media
- Efficient Biological Removal With Physical Filtration



A Revolution in Wastewater Treatment

See how **PROTEUS** can achieve compliance while slashing your process footprint & unlocking hidden plant capacity!



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 JL@BKT21.COM or call (714) 578-0676 x112.

www.tomorrowwater.com



Over or Underground Installation

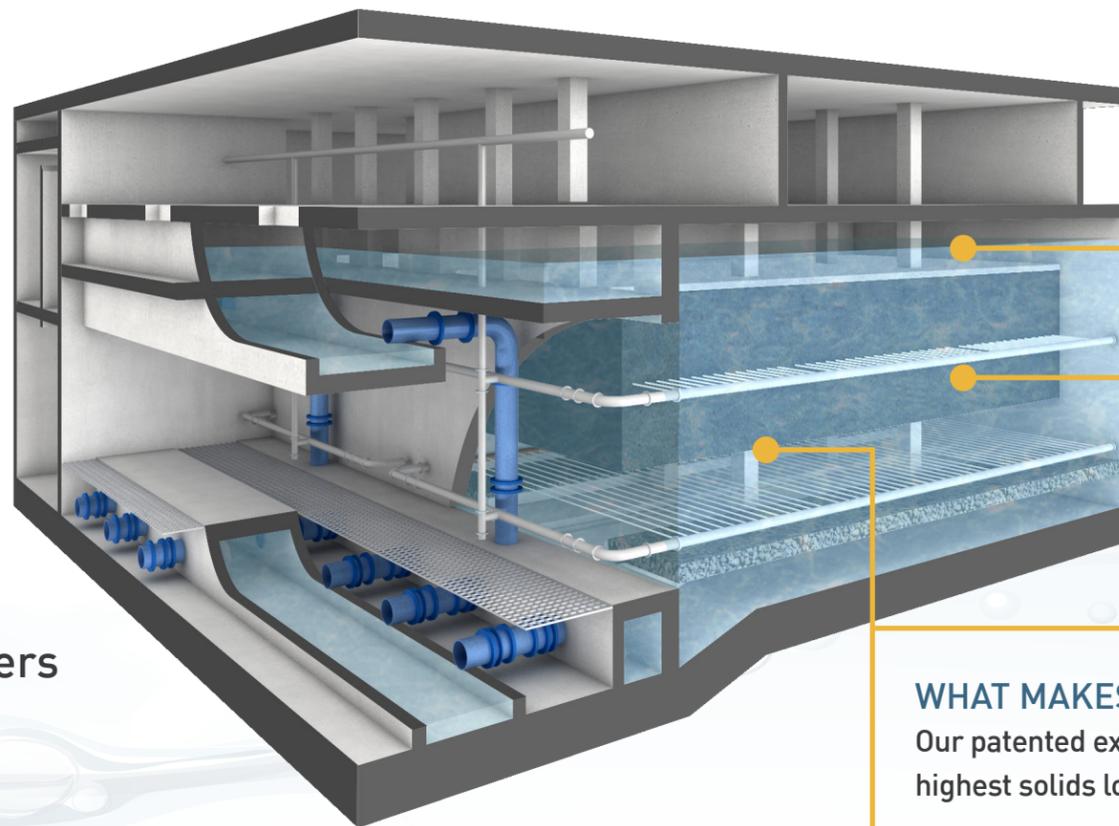
Retrofittable into existing primary clarifier footprints

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

PROTEUS has hundreds of MGD in installed capacity. As a replacement for primary clarifiers, PROTEUS can shrink existing process footprints while increasing carbon capture and digester gas production.

APPLICATIONS

- Primary + Wet Weather Flow
- Secondary Treatment Without Clarifiers
- Tertiary Filter & N/DN
- Retrofit & Expansion



UNMATCHED DURABILITY

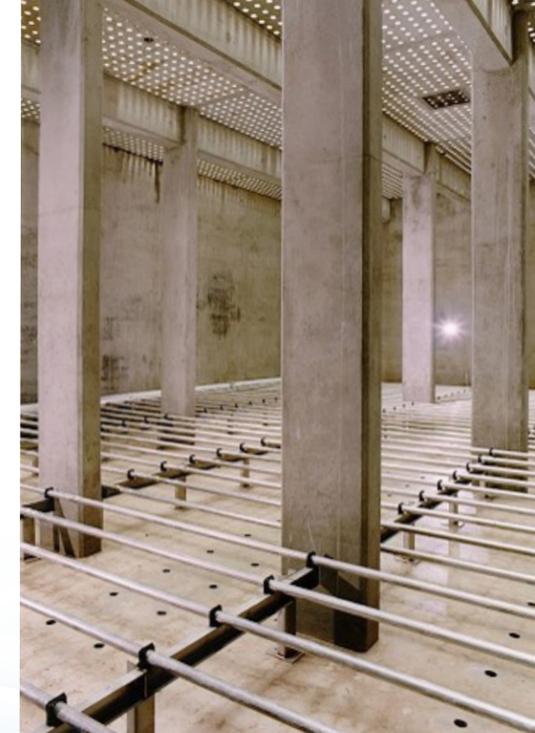
Concrete strainer block with top-serviceable nozzles completely retains floating media.

Constriction-less channels with 5" No-Clog apertures ensure worry-free feed distribution with no added screening requirements.



PROTEUS is a LIFT designated technology.

Title 22 Certification for tertiary treatment



WHAT MAKES IT POSSIBLE

Our patented expanded polypropylene (EPP) media design boasts the highest solids loading rate of any biofiltration process in the world.

- Gravity-based, zero-energy backwash uses only process water for cleaning
- Long lifespan, low attrition
- Unique shape maximizes void ratio
- Minimizes head loss
- Easy servicing



Biological material cannot be washed out.

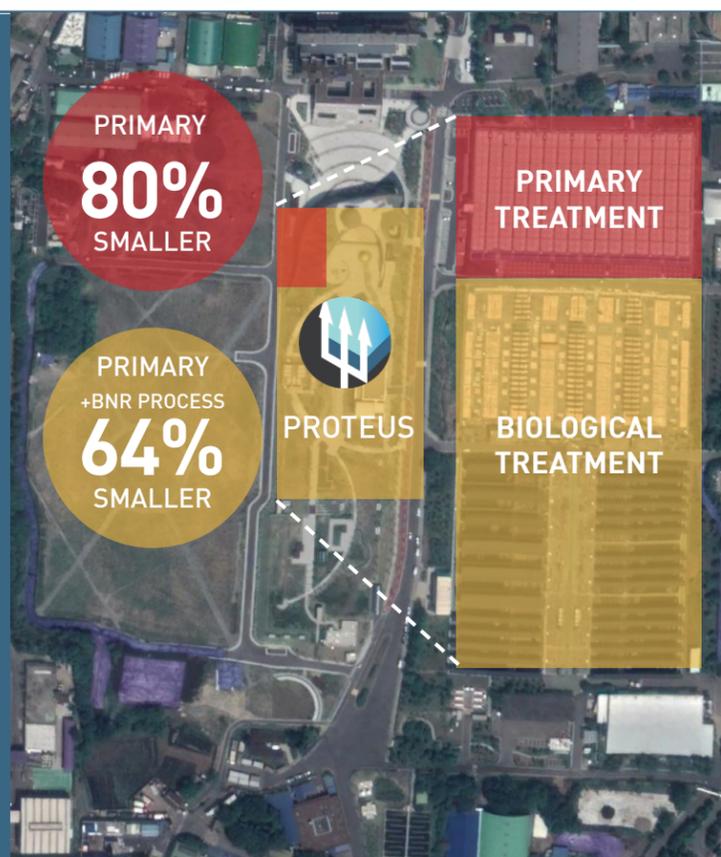
Find Space Inside Your Facility!

PROTEUS shrinks traditional process footprints, making room for new facilities, upgraded treatment, and more!

REFERENCE: Jungnang WRRF, Seoul, South Korea 250,000 m³/d process train (66 MGD)

PROTEUS Primary Filtration reclaimed 80% of primary clarifier footprint.

PROTEUS Secondary BNR Biofilter trains added total nitrogen treatment while recovering 50% of aeration basin footprints at the same time.



WET WEATHER FLOW TREATMENT

- Combine filtration with biological treatment
- Can be enhanced with chemical carbon capture
- Short HRT, small footprint
- Implemented at scales of up to 132 MGD

The PROTEUS system can also be used to treat wet weather flows to primary or secondary standards. 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.