

MSABP™ wastewater treatment without excess sludge MSABP™ PROCESS

Attached growth biological wastewater treatment process

- Secondary domestic waste treatment or industrial pretreatment

Multiple biological selectors in series

- Creates optimized conditions for oxidation of pollutants
- Produces environment for the creation of naturally occurring microbial food chains

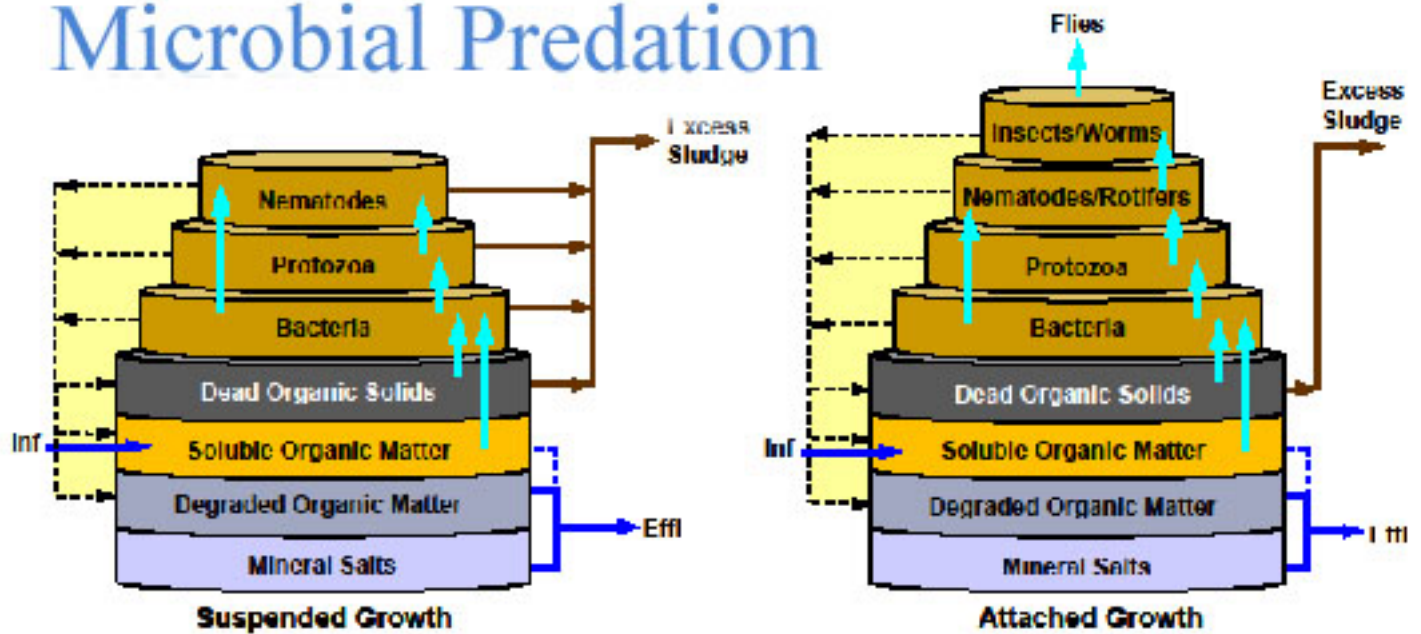
The organisms that reduce the organics are in turn consumed by higher level organisms in further stages.

Effectively eliminates pollutants in wastewater

Does so without the generation of waste sludge (biosolids) common in other biological processes

Results in substantial capital and operation cost savings

Microbial Predation



Larger size cast in situ MSABP plant

MSABP Applications

Conventional Sewerage

Developments, Schools, Parks

- Staged build-out
- Variable load

Retrofits

Nitrification

Industrial



Removable covers to prevent algae and reinforced to walk on

Typical removal efficiencies of waste constituents are:

BOD₅

97-99.5%

Ammonia Nitrogen

90-99%

COD

85-95%

Total Phosphorus

90-99%

Suspended Solids

95-97%

Oil & Grease

95-100%