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normally implemented when treating more concentrated wastewater. The anaerobic sludge contains various groups of micro organisms that work together to eventually convert organic material to biogas via hydrolysis and acidification. Biogas typically consists of 70% methane (CH_4) and 30% carbon dioxide (CO_2) with residual fractions of other gases (e.g. H_2 and H_2S).

Anaerobic Biological Wastewater Treatment |
EMIS

Anaerobic wastewater treatment is a type of biological treatment where anaerobic

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Microorganisms are used to break down and
remove organic contaminants from wastewater.
While anaerobic treatment systems may take a
variety of forms, they generally include some
form of bioreactor or repository capable of
maintaining the oxygen-free environment
needed to support the process of anaerobic
digestion.

What Is Anaerobic Wastewater Treatment and
How Does It Work?

Anaerobic sludge blanket reactors are a
different sort of anaerobic treatment where
the wastewater flows through suspended sludge

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particles known as a “blanket”. The anaerobes
in the sludge digest the organic components
in the water which then collect as granules
at the base of the reactor tank.

How Anaerobic Wastewater Treatment Works |
Water Treatment ...

giving a state-of-the-art presentation of the
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Aerobic Biofilm Reactors Volume 6: Sludge
Treatment and Disposal

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Biological wastewater treatment (anaerobic-
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treated slaughterhouse and meat processing
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of anaerobic reactors can be greatly
influenced with the conversion of proteins to
unionized ammonia and degradation of lipids
to long chain fatty acids (LCFAs).

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Biological wastewater treatment (anaerobic-
aerobic ...

Anaerobic Reactors is the fourth volume in the Biological Wastewater Treatment series. The fundamentals of anaerobic treatment are presented in detail, including its applicability, microbiology, biochemistry and main reactor configurations. Two reactor types are analysed in more detail, namely anaerobic filters and especially UASB (upflow anaerobic sludge blanket) reactors.

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Lettinga G, van Velsen AFM, Hobma SW, de
Zeeuw W, Klapwijk A (1980) Use of the upflow
sludge blanket (USB) reactor concept for
biological wastewater treatment, especially
for anaerobic treatment. Biotechnol Bioeng 22
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Anaerobic Reactors Used for Waste Water
Treatment ...

Biological wastewater treatment (anaerobic
and aerobic digestion reactors) takes
advantage of the ability of certain
microorganisms (including bacteria) to
assimilate organic matter and nutrients

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dissolved in the water for their own growth,
thus removing soluble components in the
water. Soluble organic matter is assimilated
by microorganisms as a carbon source.

Aerobic digestion reactors for biological
wastewater treatment

Biological wastewater treatment is designed
to degrade pollutants dissolved in effluents
by the action of microorganisms. The
microorganisms utilize these substances to
live and reproduce. Pollutants are used as
nutrients. A prerequisite for such
degradation activity, however, is that the

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pollutants are soluble in water and nontoxic.
De Lemos Chernicharo Carlos Augusto
Biological Wastewater Treatment - an overview
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Recently, anaerobic MBRs have seen successful full-scale application to the treatment of some types of industrial wastewaters—typically high-strength wastes. Example applications include the treatment of alcohol stillage wastewater in Japan [20] and the treatment of salad dressing/barbecue sauce wastewater in the United States.

Membrane bioreactor - Wikipedia

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applicability, microbiology, biochemistry and
main reactor configurations.

Anaerobic Reactors: Biological Wastewater
Treatment Volume ...

Anaerobic biological treatment Turn
wastewater and/or waste into power Anaerobic
treatment systems are based on a biological
process operated and controlled under
anaerobic conditions that effectively treats

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COD, BOD and VSS while producing biogas and
very little biomass (without oxygen).

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Anaerobic biological treatment - Nijhuis
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In this study, the treatment of poultry slaughterhouse wastewater (PSW) was evaluated using two new down-flow high-rate anaerobic bioreactor systems (HRABS), including the down-flow expanded granular bed reactor (DEGBR) and the static granular bed reactor (SGBR). These two bioreactors have demonstrated a good performance for the treatment of PSW with removal percentages of the biochemical . . .

Performance evaluation and kinetic modeling

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In recent years considerable effort has been made in the Netherlands toward the development of a more sophisticated anaerobic treatment process, suitable for treating low a strength wastes and for applications at liquid detention times of 3–4 hr.

Use of the upflow sludge blanket (USB) reactor concept for ...

Aerobic and Anaerobic Biological Treatment
Aerobic biological treatment is a process carried out using the ambient air, or oxygen. The anaerobic process does not use oxygen.

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Lagoons and septic tanks may use anaerobic
processes, but the best-known anaerobic
treatment is anaerobic digestion, which is
used for treating effluent from food and
beverage manufacturing, as well as municipal
wastewater, chemical effluent, and
agricultural waste.

What Is Biological Wastewater Treatment? |
Fluence

SBR reactors treat wastewater such as sewage
or output from anaerobic digesters or

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Mechanical biological treatment facilities in
batches. Oxygen is bubbled through the
mixture of wastewater and activated sludge to
reduce the organic matter (measured as
biochemical oxygen demand (BOD) and chemical
oxygen demand (COD)).

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