

## Landfill Leachate Treatment Using Sequencing Batch Reactor Process Improvement Of Sbr Performance

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Landfill Leachate Treatment

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Landfill Leachate Treatment Using Sequencing

Sequencing batch reactor (SBR) process uses for treatment of different types of wastewaters such as municipal wastewater, landfill leachate, dairy wastewater, slaughterhouse wastewater etc...

(PDF) Landfill Leachate Treatment Using Sequencing Batch ...

treatment of leachate and domestic wastewater involve a two-stage treatment process. Both the sequencing batch reactor (SBR) and coagulation are well-known biological and physiochemical methods which has high efficiency in treating domestic wastewater and landfill leachate for the past few decades. The Papan Landfill in Perak currently has no proper leachate treatment system, therefore SBR will be investigated

PAPAN LANDFILL LEACHATE TREATMENT USING A SEQUENCING BATCH ...

In this study, landfill leachate was treated by using the sequencing batch reactor (SBR) process. Two types of the SBR, namely non-powdered activated carbon and powdered activated carbon (PAC-SBR) were used. The influence of aeration rate and contact time on SBR and PAC-SBR performances was investigated.

Landfill leachate treatment using powdered activated ...

The combination of heterotrophic denitrification and partial nitrification for the treatment of landfill leachate was investigated in a single sequencing batch reactor with the objective of achieving simultaneous elimination of nitrogen and organic matter and providing a suitable effluent for the subsequent anaerobic ammonium oxidation (Anammox) treatment.

Original Research Landfill Leachate Treatment Using a ...

Landfill Leachate Treatment Using a Combination of Heterotrophic Denitrification and Partial Nitrification in a Single Sequencing Batch Reactor. The combination of heterotrophic denitrification and partial nitrification for the treatment of landfill leachate was investigated in a single sequencing batch reactor with the objective of achieving simultaneous elimination of nitrogen and organic matter and providing a suitable effluent for the subsequent anaerobic ammonium oxidation (Anammox) treatment.

[PDF] Landfill Leachate Treatment Using a Combination of ...

Aziz, S.O. (2011) Landfill leachate treatment using powdered activated carbon augmented sequencing batch reactor (SBR) process. Unpublished: PhD Thesis. School of Civil Engineering, Universiti Sains Malaysia.

Aziz SQ 2011 Landfill leachate treatment using powdered ...

1. Wastewater Samples. This treatment of sequencing batch reactor (SBR) has been chosen as the method of leachate treatment derived from Pasir Gudang Sanitary Landfill. The experiment will be conducted at Environment Engineering Laboratory, Faculty of Engineering Civil and Environment, UTHM.

Treatment of Leachate Using Sequencing Batch Reactor (SBR)

Aims: The management of leachate has become to one of the main focuses for the environment management. The aim of this study was a complementary treatment of leachate using sequencing batch reactor (SBR). Materials and Methods: A bioreactor was fed by effluent with 70-1360 mg/L chemical oxygen demand (COD) concentration.

Complementary treatment of leachate using sequencing batch ...

Leachate (1120–3520 mg COD/l) from the Iowa City municipal landfill was treated using a UASB sequencing batch reactor (35°C) ( Hollopetter and Dague, 1995 ). The AnSBR was operated at an HRT of 6 h (OLRs of 1.6–3.5 g COD/l d) with fill, react, settle and discharge phases of 0.25, 4.5, 1.0 and 0.25 h, respectively.

Treatment of landfill leachate using sequencing batch and ...

A study was conducted on the treatment of landfill leachate by combining the sequencing batch biofilm reactor (SBBR) method with the electro-Fenton method. The reduction of chemical oxygen demand (COD), biological oxygen demand (BOD 5), and ammonia nitrogen (NH 4 + -N) from the leachate by the SBBR method was investigated.

Landfill leachate treatment using the sequencing batch ...

Treatment of landfill leachate using sequencing batch and ... Abstract. In this study, landfill leachate was treated by using the sequencing batch reactor (SBR) process. Two types of the SBR, namely non-powdered activated carbon and powdered activated carbon (PAC-SBR) were used.

Landfill Leachate Treatment Using Sequencing Batch Reactor ...

Swedish experiences of landfill leachate treatment using Sequencing Bach Reactors for nitrogen removal” lecture given at IPSI conference. 2006; Treatment of ammonium-rich waste streams with deammonification process. Master of Science Thesis, Cracow University of Technology, Cracow and Royal Institute of Technology,

[PDF] Landfill leachate, generation, composition, and some ...

The Papan Landfill in Perak, Malaysia currently has no proper leachate treatment system. In the current study, sequential treatment via sequencing batch reactor (SBR) followed by coagulation was used to treat chemical oxygen demand (COD), ammoniacal nitrogen (NH 3-N), total suspended solids (TSS), and colour from raw landfill leachate. SBR optimum aeration rate, L/min, optimal pH and dosage (g/L) of Alum for coagulation as a post-treatment were determined.

A sequential treatment of intermediate tropical landfill ...

Methods: This study investigated the treatment performance of old landfill leachate with different levels of ammonium using two aerobic sequencing batch reactors (SBR): an activated sludge SBR (ASBR) and a granular sludge SBR (GSBR). Aerobic granules were successfully developed using old leachate with low ammonium concentration (136 mg L-1 NH 4 +-N).

Treatment of old landfill leachate with high ammonium ...

A laboratory-scale sequencing batch reactor (SBR) is used to treat landfill leachate containing high concentration of ammonium nitrogen with municipal fecal supernatant. The SBR system is operated in the following sequential phases: fill period, anoxic period, aeration period, settling period, decant and idle period.

Combined treatment of landfill leachate with fecal ...

Reducing the concentration of ammonia in landfill leachate is often necessary to meet discharge permit requirements. This is true for direct discharge of treated leachate to surface waters and may be required to meet publicly owned treatment works (POTW) discharge permit standards. Ammonia reduction treatment is primarily necessary to prevent toxic impacts on aquatic life in surface waters and to reduce its toxic effects on bacteria populations used in the POTW treatment systems.

Treating ammonia in landfill leachate - Waste Today

Among the various leachate treatment methods, biological processes have priority due to their lower cost, easy operation, and environmental compatibility ( 10, 11 ). One of the most common modified conventional activated sludge processes is biological sequencing batch reactor (SBR).

Determination of Sequencing Batch Reactor (SBR ...

sequencing batch biofilter granular (SBBGR) for the treatment of ammonia-rich reject water. The study was conducted for more than 100 days and was divided into two parts: phase 1 where. influent ammonia was 100 mg/L, and phase 2 where influent ammonia was 200 mg/L. During.

Cost and Environmental Impacts of Leachate Nitrogen ...

The most popular biological treatment of landfill leachate is the sequencing batch reactor (SBR) method. The SBR process strategy is characterized by a controlled periodic change of process condi- tions such as concentration of oxygen, and availability other biological reactants. Treatment of landfill leachate by sequencing batch reactor...