Aerobic biological treatment of landfill leachate

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Abstract

There is an ongoing need to treat leachates from landfills using approaches that avoid expensive installation and operating costs. Faced with such a problem, Powys County Council (Wales, UK) developed a treatment system based on practical experience. Leachate was re-circulated through aeration towers containing a biofilm supported on plastic media before being polished in reed/filter beds.

Investigations were undertaken to evaluate the performance of these processes. Replicated model aeration towers (1/300 site scale) were used to establish treatment rates for pollutants in leachates of varying strengths; the effects of temperature and variations in pollutant concentrations were also evaluated. Data from these model experiments were corroborated with findings from pilot-scale plants (1/10 site scale) operating on landfill sites. Assessment of treatment performance was based on the degree of amelioration of standard chemical (ammoniacal-N and total organic carbon) parameters. A range of related parameters including nitrate, pH and redox potential were measured in support of these assessments.

Model system experiments indicated treatment rates at 15 °C (883-1895 mg NH₃-N m⁻³ h⁻¹; 347-1600 mg TOC m⁻³ h⁻¹) that were similar across a wide range of leachate concentrations (37-1880 mgl⁻¹ ammoniacal-N; 130-5315 mgl⁻¹ COD). Marked changes in the concentration of leachates did not affect treatment efficiency following a short lag effect. Process rates roughly halved with each 5°C decrease in temperature below 15°C, significant nitrification was maintained at temperatures of 0.5-1 °C. High variability in treatment capacity was observed for individual plastic media. Treatment rates in pilot scale plants were slightly higher but broadly consistent with those obtained in model systems.

Keywords: leachate treatment, aerobic, temperature, leachate strength, biofilm.



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Hazardous Waste Management Zarook Shareefdeen,2022-04-22 This book provides readers with the most current knowledge on hazardous waste management practices It addresses the rapidly changing advances in waste stream characterization and the discovery of new chemicals which have led to new hazardous wastes technological innovation stringent environmental regulations changes in transport and dispersion modelling of hazardous pollutants and new waste management techniques Hazardous Waste Management Advances in Chemical and Industrial Waste Treatment and Technologies is an invaluable reference for waste management and treatment professionals chemical engineers and

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Adsorptive Biological Treatment Of Landfill Leachate Yunus Pamukoglu,2013-01 Early biological treatment studies with the raw leachate did not yield high COD and nitrogen removals In order to improve biological treatability the landfill leachate was subjected to pretreatment by chemical coagulation flocculation followed by air stripping of ammonia The pretreated leachate was subjected to aerobic biological treatment in an aeration tank by fed batch operation In order to improve the extent of COD and ammonium nitrogen removals pretreated leachate was subjected to adsorbent supplemented biological treatment in an aeration tank operated in fed batch mode by using powdered zeolite PZ and powdered activated carbon PAC as adsorbents Chemical oxidation was used to further reduce COD content of landfill leachate after PAC added biological treatment Three oxidizing agents H2O2 Fenton's reagent NaOCl were used in different concentrations for chemical oxidation

Landfill Leachate Treatment Techniques Salah Souabi, Abdelkader Anouzla, 2024 This book is a ready reckoner of recent information regarding the impact of leachate landfills leachate treatment and heavy metals on a single platform The amount of waste is constantly growing due to population growth and the evolution of socioeconomic activities Burying this

waste produces leachate a contaminated effluent created during the decomposition of organic waste and containing harmful substances like heavy metals polyphenols volatile organic compounds and microorganisms. These effluents emit unpleasant odors associated with ammonium ions. These discharges significantly impact the environment As a result the master s and doctoral academics researchers and students will be able to comprehend the most recent developments in municipal solid waste landfill operations supporting their research. This book inspires readers on how to deal with environmental pollution problems due to leachate contamination in freshwater and agricultural soils using a variety of technologies.

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<u>Biological Stabilization of Sanitary Landfill Leachate</u> Edward G. Foree, Emil Norwood Cook, University of Kentucky, 1972

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Treatment of Landfill Leachate Using Rotatory Biological Contractor Shabnam Hussain, Renu Dhupper, Aasif Mujtaba, 2012 Concern for environmental protection has increased from a global viewpoint due to the exponential population and civilization growth accompanied by the rapid generation of municipal and industrial solid waste which creates the most instringent paradox around the world Sanitary landfills are considered as most indispensable solid waste management strategy for sustainable disposal but such implementation is handicapped by the inherent drawback of landfill leachates The leachate being extremely toxic in nature are threat for the surrounding soil groundwater and surface water Aerobic treatment in the form of attached growth biomass systems is considered effective in removal of organic matter from the leachate The biological oxidation and biosynthesis of organic matter present in leachate is done by the microorganisms used in the treatment process The process is effective as compared to the other conventional anaerobic treatment of leachate as along with the organic matter harmful ammonical nitrogen can also be conventionally removed Among all the technologies available for leachate treatment RBC Rotatory Biological Contractor is the most cost effective and efficient Aerobic Treatment of Landfill Leachate Using a Submerged Membrane Bioreactor Sara Sadri, 2005

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Table of Contents Aerobic Biological Treatment Of Landfill Leachate Wit Press

- 1. Understanding the eBook Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - The Rise of Digital Reading Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Personalized Recommendations
 - Aerobic Biological Treatment Of Landfill Leachate Wit Press User Reviews and Ratings
 - Aerobic Biological Treatment Of Landfill Leachate Wit Press and Bestseller Lists
- 5. Accessing Aerobic Biological Treatment Of Landfill Leachate Wit Press Free and Paid eBooks
 - Aerobic Biological Treatment Of Landfill Leachate Wit Press Public Domain eBooks
 - Aerobic Biological Treatment Of Landfill Leachate Wit Press eBook Subscription Services
 - Aerobic Biological Treatment Of Landfill Leachate Wit Press Budget-Friendly Options
- 6. Navigating Aerobic Biological Treatment Of Landfill Leachate Wit Press eBook Formats

- o ePub, PDF, MOBI, and More
- Aerobic Biological Treatment Of Landfill Leachate Wit Press Compatibility with Devices
- Aerobic Biological Treatment Of Landfill Leachate Wit Press Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Highlighting and Note-Taking Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Interactive Elements Aerobic Biological Treatment Of Landfill Leachate Wit Press
- 8. Staying Engaged with Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aerobic Biological Treatment Of Landfill Leachate Wit Press
- 9. Balancing eBooks and Physical Books Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Aerobic Biological Treatment Of Landfill Leachate Wit Press
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - \circ Setting Reading Goals Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Fact-Checking eBook Content of Aerobic Biological Treatment Of Landfill Leachate Wit Press
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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