

# Landfill Leachate Treatment Case Studies

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### Landfill Leachate Treatment Case Studies

#### **LANDFILL LEACHATE TREATMENT: CASE STUDIES**

Three case studies of domestic landfill leachates treatment are reported in order to connect biological and physico-chemical processes effectiveness to leachate characterisation and key contaminants treatability KEY WORDS: Landfill leachate, characterisation, biological treatment, physico-chemical treatment INTRODUCTION

#### **Case Study: Landfill Leachate Management System**

Case Study: Landfill Leachate Management System PAGE 2 key components that let landfill operator customers connect to, continuously control, and acquire data from pumps, valves, and other equipment at outstations, ponds, control centers, and all over their individual sites Specifically, at one landfill located in Lancashire, System Devices has

#### **Leachate Treatment**

Leachate Treatment Case Study Interaseo del Valle, Colombia Background Managed by Interaseo del Valle, the Yotoco landfill services the city of Cali, capital of Valle del Cauca and other nearby towns in Colombia The landfill currently receives a daily average of 1,700 tons of waste from a nearby transfer station Objectives Improve

#### **Leachate Treatment**

Leachate Treatment Case Study West Sussex Landfill, United Kingdom Background The West Sussex Landfill disposes leachate in two ways Firstly, by off-site hauling at a cost of approximately \$35/1,000 litres Secondly, the landfill uses an on-site biological treatment utilizing a sequential batch reactor (SBR) followed by discharge to public

#### **Original Research Treatment of Landfill Leachate by ...**

Poland have gained popularity for sewage treatment, experience with landfill leachate treatment is still developing In some cases, lack of knowledge in design, construction and operation leads to problems and unsatisfactory treatment results In this paper, the design and performance of three CWs for leachate treatment, two located in

### **Landfill Leachate Treatment Solutions - What Technologies ...**

Case Studies for Landfill Leachate Treatment AS SBR MBR RO Evaporation Freshkills, Staten Island, NY X Rhode Island X GROWS in PA X X Seneca Meadows in NY X Warren Township, NJ X Cumberland County, NJ X Monmouth County, NJ X Barre, MA X X Gainsville, GA Sampson County, NC X Green Lane, Ontario, Canada X McDougal, Ontario, Canada X Merrick

### **Santo Domingo Landfill Case Study-final - VSEP**

the common leachate problem Landfill leachate can vary a great deal depending on the age of the landfill, the waste received, the amount of rainfall, and many other factors Because of this, other technologies such as digesters, chemical treatment, or engineered wetlands can have selective success, but none represent a complete treatment solution

### **The Normandy Landfill: A Case Study in Solid Waste ...**

The Normandy Landfill: A Case Study in Solid Waste Management treatment of the already existing and still active materials within the landfill Although most waste received at the Normandy Landfill leachate formed within the landfill seeped away from the direct fill area

### **Case Study: Solid Waste Management Country: PHILIPPINES ...**

the landfill cells and insufficient leachate collection and treatment systems Moreover, with the enactment of Republic Act no 9003 or the Ecological Solid Waste Management of 2000, which prohibits open dumpsite operation and its conversion to controlled landfill, the City of Naga is to comply and close the Balatas Dumpsite

### **THE USE OF REED BEDS FOR TREATMENT OF LANDFILL ...**

cise, a reed bed leachate treatment scheme was installed on top of the old landfill, capable of treating up to 300 m<sup>3</sup> of leachate per day, and compatible with the nature reserve in which the restored site is located (Robinson et al, 2007) As the site is remote, closed and unmanned, a low maintenance, low cost, vandal-resistant system was re-

### **Impact of Landfill Leachate on the Groundwater Quality: a ...**

1 Impact of Landfill Leachate on the Groundwater Quality: a Case Study in Egypt Magda M Abd El-Salam a, b\* Gaber Abu-Zuid Ismail c a Environmental Chemistry and Biology, Environmental Health

### **Impact of Municipal Solid Waste Landfill on Environment ...**

Impact of Municipal Solid Waste Landfill on Environment - A Case Study engineered, with bottom liner and leachate and landfill gas collection and treatment system The landfill has not The systems for leachate treatment, and gas re-recovery, collection and treatment are in operation

### **Guidance Manual for the Control of Wastes Hauled to ...**

Guidance Manual for the Control of Wastes Hauled to Publicly Owned Treatment Works CASE STUDIES 4-1 APPENDICES Appendix A Glossary of Terms Appendix B Bibliography Appendix C List of State and Regional Pretreatment Coordinators groundwater remediation site ...

### **RESEARCH ARTICLE Open Access Application of iron ...**

RESEARCH ARTICLE Open Access Application of iron nanoparticles in landfill leachate treatment - case study: Hamadan landfill leachate Zahra Esfahani Kashitarash<sup>1</sup>, Samadi Mohammad Taghi<sup>2\*</sup>, Naddafi Kazem<sup>3</sup>, Afkhami Abbass<sup>4</sup> and Rahmani Alireza<sup>2</sup> Abstract

**Groundwater Pollution by Municipal Solid Waste Landfill ...**

depend on the pre-treatment of the solid waste such as segregation of recyclable material like plastics, paper, metals, glass, etc, shredding and /or bailing of the waste Containing hundreds of different chemicals, the characteristics of municipal landfill leachate vary greatly within an ...

**4 - Case Studies**

4 CASE STUDIES Shelby County Transfer Station (cont'd) Decision Making Process-Planning process involved only Planning Area authorities (no public involvement)-January 1993 to January 1994: Evaluation of 4 options1) Close the landfill by July 1, 1994 and construct a transfer station 2) Stay open until the landfill is full (July 1, 1996) and then build a

**A Changing Industry: On-site Phytoremediation of Landfill ...**

A Changing Industry: On-site Phytoremediation of Landfill Leachate Using Trees and Grasses - Case Studies Brad A Granley\*, Paul N Truong\*\* \* Leggette, Brashears & Graham Inc, Senior Associate \*\*TVNI Coordinator Asia and Oceania Paper presented at The on-site utilization of landfill leachate using phytoremediation systems is transforming the

**FEASIBILITY STUDY ANALYSIS FOR CERCLA MUNICIPAL ...**

FEASIBILITY STUDY ANALYSIS FOR CERCLA MUNICIPAL LANDFILLS PREFACE The Feasibility Study Analysis For CERCLA Municipal Landfill Sites is an evaluation of technologies considered in the feasibility studies (FSs) of 30 municipal landfill (MLF) sites This evaluation involved analyzing technical literature and the results of the remedy selection process

**STUDIES ON GROUND WATER CONTAMINATION DUE TO ...**

STUDIES ON GROUND WATER CONTAMINATION DUE TO LANDFILL LEACHATE IN INDIA Sapna Sethi1, On site leachate treatment is required before its exercises in the case of landfill projects