## Landfill Leachate Treatment

Normal treatment of landfill leachate is hard to meet the standard set by the Chinese government. It makes membrane system become essential.

In Xuzhou, China, a municiple solid waste landfill, based on the local condition, reformed the BIO process to external TMBR system. This present process sharply reduced the content of organics, ammonia nitrogen, total nitrogen and etc. Less water use, less membrane demand, less project cost.

Nowadays, MBR+NF/RO process is a typical process for landfill leachate treatment.

## · Project Brief

· Project Site: Xuzhou China

· Treatment capacity: 200t/d

· Start at: June of 2012

· Model: KMTB-0803-PU

· Membrane Specification:

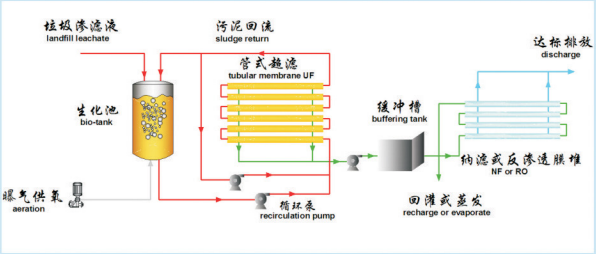
8mm PVDF F200N TM

## · Water Quality Introduction

| Items | Unit | Feed | Treatment |
|---|---|---|---|
| $COD_{cr}$ | mg/L | 12000 | ≤100 |
| $BOD_5$ | mg/L | 5500 | ≤30 |
| $NH_3$-N | mg/L | 1800 | ≤25 |
| TN | mg/L | 2000 | ≤40 |
| SS | mg/L | 1000 | ≤30 |
| pH | | 6-9 | 6-9 |

## Project Overview

Tubular Membrane System



# Project Case >>>

## · Process Advantages

1、8 mm channel diameter; less sludging; MLSS to 20g/L;

2、50-80LMH water flux, 6-10 times more than submerged MBR;

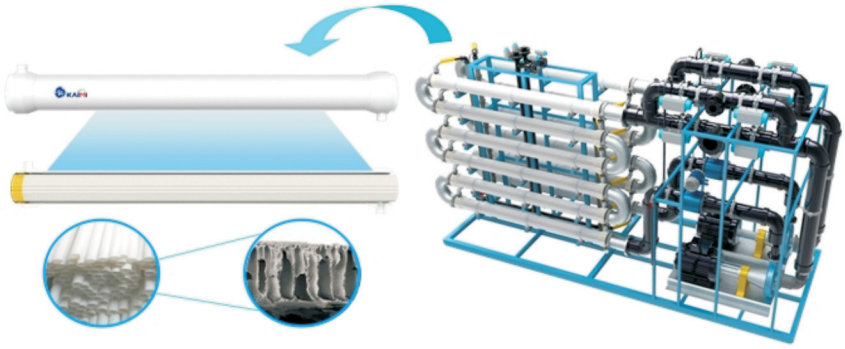
3、Highly anti-pollution base on cross flow;

4、CIP clean SYNC; Reusable;

5、Support to replace by single module ;

6、Simple process; Convenient operation & maintenance

## · Membrane & Membrane Module



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