台灣地區垃圾的處理方式漸漸地由任意傾棄至衛生掩埋而垃圾焚化又是未來必走的趨勢,所以在不久的將來籌畫中的焚化爐陸續完成後,目前完全掩埋生垃圾的掩埋場中,將有部分的焚化灰渣與生垃圾共同掩埋。

Abstract

In Taiwan , the way of disposing rubbish has changed from open-dumping to landfill, and incineration will be adopted as a necessary disposal. In the near future, after incinerators have been constructed according to projects. landfill sites which have been treating only raw refuse up to now will carry out the landfill of raw refusetogether with part of the incinerating ashes.

There are two stages in this study: First, the exploration of the proper composition of artificial refuse; second, the study of featuresin the landfill of urban wastes together with incinerating ashes by means of anaerobic treatment. At the first stage, the experiment is performed upon diverse refuse samples which are divided into siximitation columns, pursuant to the classification of the refuse composition of Taipea City and at the proportion of the composition in each group. That is aimed to find out the representative composite ration of artificial refuse available for the study of the second stage. At the second stage, the representative artificial refuse composition found at the first stage is used as samples of the urbanwastes tobe landed together with the incinerating ashes. There are four model tanks for the experiment. The first model tank is used exclusively for the landfill of raw refuse. At the bottom of the second model tank is one third of the incinerating ashes and the raw refuse is landed afterwards. At the bottom of the third model tank is two third of the incinerating ashes and the raw refuse is landed afterwards. The fourth model tank is used completely for the landfill of incinerating ashes. But, afterthe fourth model tank has undergone the leaching peak of pollutants, the second layer of landfill monomer is landed in it, in order to examine the change.

The result of the study is that at the first stage, the best artificial refuse composition is that of the fifth imitation columns. At the second stage, incinerating ashes have the leaching effect on the passing leachate. If incinerating ashes are landed beneath the raw refuse, it can filter the initial leachate pollutants. However, after the filtration is saturated, the which have been cut off will extract. As for the landfill of raw refuse, the ratio of the volatile acid to the total alkalinity changes contrary to the change of pH. When a great number of incinerating ashes are landed beneath the raw refuse, the relationship between the ratio of the volatile acid to the total alkalinity and the change of pB should take the influence of incinerating ashes into consideration. On the other hand, the landfill of the second layer of monomer has the effect of cycle treatment on the leachate , which is different from the usual leachate cycle treatment in the concentration and the time when the leachate begins to circulate. When the second layer of monomer is landed after the landfill of incinerating ashes beneath the raw refuse, the quantity of COD in the leachate is greatly decreased.