

水庫抽泥-這筆帳怎麼算？

陳本康^[1*] 蘇展^[2]

摘 要 近年來，河川清淤作業，計算清淤數量的方法，由地形測量的「體積法」，改為地磅的「重量法」，再配合保全監視系統，已能讓清淤作業，可以順利進行；而水庫的淤積物以淤泥為主，一般將水庫底泥抽至沉澱池後，再測量其體積，來計算清淤量，但對於無沉澱池條件的曾文水庫而言，並無法如此作業，因此，水利署南區水資源局，經研討後採用，將淤泥流經濃度計與流量計的方法，來計算其重量，已於 101 年 12 月至 102 年 10 月間，順利完成了約 30 萬立方公尺之清淤量及計價程序，並建立了儀器檢驗、校正及率定等制度；此方法應為全國首例，且在全球尚未見相關報導，故乃整理相關經驗及成果，供各界參考研討。

關鍵詞：抽泥、濃度計、水庫清淤。

Reservoir Dredging- What is the Price?

Ben-Kang Chen^[1*] Zen Sue^[2]

ABSTRACT In recent years for river dredging operations, the method for dredging quantity calculation has changed from the "volume method" to the "weight method", together with the security surveillance systems, have to make dredging operations can be carried out smoothly; The sludge of reservoirs dominated by silt sediment, will generally be pumped to the reservoir sedimentation ponds, and then measured its volume to calculate the amount of dredging, but there are no such ponds for Zeng-wen Reservoir to operate. Therefore, the water Resources Agency Southern Region Water Board, decided to adopt both the sludge concentration meter and flow meter to calculate its weight from December 2012 to July 2013. It accomplished that the successful completion of the approximately 230,000 cubic meters of dredging volume and pricing procedures, and the establishment of instrument testing, calibration and supervised systems; This method should be the country's first and the world has not been related news. Therefore, this paper showed the compilation of relevant experience outcomes for public reference and discussion.

Key Words: pumping mud, concentration meter, reservoir dredging.

[1] 康技技術顧問股份有限公司 總經理技師 (* 通訊作者 E-mail: chenbk88@gmail.com)
General Manager (Professional Engineer), Kan-gi Technology Co., Ltd.

[2] 康技技術顧問股份有限公司 主任
Site Director, Kan-gi Technology Co., Ltd.