

來社溪野溪清疏方案之二維數值模擬分析

陳彥婷^[1] 盧杰志^{[2]*} 林喬莉^[2] 林秉賢^[3] 連惠邦^[4]

摘要 為有效處理颱風豪雨所造成之野溪土砂淤積問題，必須實施淤積土石之清疏作業，以清除或整理可能致災之多餘土砂，使野溪河道具有安全的通洪斷面，以避免二次災害產生。並針對已完成清疏且出現嚴重回淤之河段，研提改善已清疏河段土石回淤對策。本研究以屏東縣來義鄉來社溪為研究對象，以二維水理輸砂模式 CCHE-2D 進行河道沖淤模擬，以瞭解屏東縣來義鄉來社溪的沖淤變化。

關鍵詞：野溪、清疏、淤積、崩塌。

A Two-Dimension Numerical Analysis of Sediment Dredging in Laishe Stream

Yen-Ting Chen^[1] Chieh-Chih Lu^{[2]*} Ciao-Li Lin^[2]
Bing-Shyan Lin^[3] Hui-Pain Lien^[4]

ABSTRACT In order to prevent sediment disaster in creeks during typhoons and heavy rainfall events, the massive sediment dredging in the upstream river should be completed effectively. Assessment severe back silting areas and propose relatively solutions. This study is planning sediment dredging projects in Laishe stream. Applying a two dimension model (CCHE-2D) is used to simulate the sediment transport in the river or creek.

Key Words : Creek, Sediment Dredging, Sedimentation, Landslide..

[1] 中興大學水土保持學系 碩士生

Graduate Student of Department of Soil and Water Conservation, National Chung Hsing University, Taichung 402, Taiwan

[2] 逢甲大學營建及防災研究中心 工程師 (* 通訊作者 E-mail: jaylu1981@gmail.com)

Engineer of Construction and Disaster-Prevention Research Center, Feng Chia University, Taichung 407, Taiwan

[3] 逢甲大學土木及水利工程研究所 博士

Ph. D. of Civil and Hydraulic Engineering, Feng Chia University, Taichung 407, Taiwan

[4] 逢甲大學水利工程與資源保育學系 教授

Professor of Department of Water Resources Engineering and Conservation, Feng Chia University, Taichung 407, Taiwan