行政院環境保護署 環檢所 委託計畫

計畫名稱：水質檢驗方法通則之建立
計畫編號：EPA-91-E3S3-02-01
計畫執行單位：中興工程顧問社環境工程研究中心
計畫主持人（包括協同主持人）：何君豔
計畫期程：91年2月19日起至91月12年31日止

成　果　摘　要

因應國內環境保護意識提高，行政院環境保護署先後制訂「土壤及地下水污染整治法」及「海洋污染防治法」，並對於水污染防治、空氣污染防治、噪音管制法、飲用水管理條例及有害事業廢棄物認定標準等進行條文修訂，增、修訂內容同時也包括了環境基準、水質標準及認定標準等。因應這些法令標準的增修訂，行政院環境保護署環境檢驗所希望彙整以往環檢所公告相關水質規範方法及指引，並參考主要國家環境檢測相關法令，制定一符合現行法令需求的水質檢驗方法通則。本計畫擬訂之水質檢驗方法通則內容包括：

一、通則概要，為各章節內容摘要說明；
二、適用範圍，說明本通則適用環境水體範圍；
三、品質管理，包括品質保證、品質管制、品質評估、數據品質、量測不確定度、方法偵測極限、數據品質目標及檢測結果正確性評估等；
四、檢測管理，包括：檢驗方法驗證、干擾及樣品前處理、器材及試藥、標準品等級、儀器設備維護、採樣保存、檢驗結果表示、安全衛生及廢棄物減量處理等原則性指引；
五、附件，包含專有名詞解釋及檢測相關基本統計分析原理。

In response to increasing concerns and conscious about environmental protection issues, Environmental Protection Administration of Republic of China (EPA/ROC) has formulated and issued Soil and Groundwater Pollution Remediation Act and Ocean Pollution Control Act. EPA/ROC also amended several regulations including Water Pollution Control Act, Air Pollution Control Act, Noise Control Act, Drinking Water Management Act, and Waste Disposal Act as well as Environmental Standards. To collaborate with all the amendment, the National Institute of Environmental Analysis (NIEA) of EPA/ROC decided to review and revise water quality related regulations, methods, and guidelines. Additionally, the NIEA are in need of a guideline for water quality examination that not only complies with current regulations but also infers from environmental guidelines of other major countries.

The Water Quality Examination Guideline formulated in this project consists of (1) introduction - general description to the content of each chapter; (2) applicability – the water bodies to which the guideline applies; (3) quality management – assessment of quality assurance, quality control, data quality, measurement uncertainty, method detection limit, data quality objective, and measurement accuracy; (4) examination management – principles of analytical method verification, interference, sample pretreatment, equipment, reagent, standards grade, instrument maintenance, sample preservation, result presentation, safety, and waste reduction, and (5) appendices –glossary and basic statistical analyses related to water quality examination.