

The occurrence of disinfection by-products in taiwan drinking water

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摘要.

Abstract

In this study, samples were taken from six conventional water treatment plants for disinfection by-products analysis. Results from the analysis revealed that trihalomethanes (THMs) concentrations in all samples were below regulatory levels ($100 \mu\text{g/L}$). Although the national standard for haloacetic acids (HAA₅) has not yet been promulgated in Taiwan, samples from two water plants contained HAA₅ concentrations exceeding the USEPA limit (MCL of HAA₅ of Stage 1, $60 \mu\text{g/L}$). THMs and HAA₅ were found to be the major disinfection by-products in all water treatment plants.