

Abstract

This research makes the discussion to the arsenic concentration in stream water, the Shaung stream, Nan-Huang stream and the Pei-Huang stream of three pieces of basin of national park area of Yang-Ming Shan, the arsenic concentration in the stream water will influence the agricultural water, and commercial water, even influence the local's health, but the basin stream water flows into Tanshui river finally, will also influence the environment of Tanshui river.

The concentration of the arsenic changing and its water temperature, pH, electric conductivity(COND., $\mu\text{S}/\text{cm}$), the dissolving amount of total solid (TDS, $\text{CaCO}_3\text{-ppm}$), the ratio of reducing the electric potential (RP, mv), and divide and change in the monthes in the persons who make use of observe each stream water for a long time, the concentration change of the arsenic relates to seasonality when to probe into each stream, among them all relatively tall in concentration with the arsenic in the stream water of August and December, bring plentiful rainfall make soil metal arsenic dissolve, appear to basin in the stream and Northeastern monsoon acid material bring influence soil properties to also enable the basin at the rainy season Arsenic concentration rises in the stream water.