

# **Assessment of the Water Quality from Chi Phwe Town Located beside the Mai Hka River**

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## **Abstract**

In this study, water samples of stream water and spring water were collected from Chi Phwe town which is located beside the Mai Hka River, Kachin state. The physicochemical investigations of the collected water samples have been carried out by using conventional methods and modern instrumental techniques. The physical characteristics such as temperature, colour and turbidity were determined. In addition, pH, total dissolved solids (TDS), total hardness, electrical conductivity, trace elements (Cu, Fe, Zn, Ca, Mg and As) as well as chloride and sulphate anion contaminations were also investigated to assess the quality of drinking water for the people of study area. As the collected samples of stream water and spring water were within the maximum permissible limit, the water body of that area is suitable for drinking purpose.

**Key words:** Physicochemical investigation, stream water, spring water, TDS, trace elements, drinking purpose

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