

ABSTRACT

Analysis Iron and Zinc in Tilapia Fish, Water Hyacinth, and Sediment in Maninjau Lake

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***Preceptor**

Research on determination the concentration of heavy metals Iron (Fe) and Zinc (Zn) in sample of tilapia fish, water hyacinth, and sediment in Maninjau Lakein Rambai village Koto Malintang subdistrict Tanjung Raya district have been done. Samples of tilapia, water hyacinth, and sediment taken at four points around in the fish breeding. Concentration of Fe and Zn were measured using Atomic Absorption Spectrophotometer (AAS). Based on the analytical result, tilapia have concentration of Fe ranged from 42 mg/kg to 245 mg/kg and concentration of Zn ranged from 14 mg/kg to 37 mg/kg, water hyacinth have concentration of Fe ranged from 167 mg/kg to 285 mg/kg and concentration of Zn ranged from 27 mg/kg to 76 mg/kg, and sediment have concentration of Fe ranged from 644 mg/kg to 1282 mg/kg and concentration of Zn ranged from 64 mg/kg to 269 mg/kg. The result were showed that the concentration of Fe and Zn metals had exceed the limit.

Key words: Iron (Fe), Zinc (Zn), Atomic Absorption Spectrophotometer (AAS)

