BATANGAS STATE UNIVERSITY

The National Engineering University

WATERSHED MANAGEMENT STRATEGY - LOCATION SPECIFIC DIVERSITY OF AQUATIC SPECIES

BatStateU as a Body that Strategize Watershed Management for Location Specific Diversity of Aquatic Species

Assessment of Cadmium (Cd) Contamination in Sediments and Roots and Leaves of Avicennia marina in the Estuary of Brgy. Palanas, Lemery, Batangas

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Summary:

Over the past few years, it has been relevantly observed the declining numbers of mangrove species in the Mangrove Estuary of Brgy. Palanas, Lemery, Batangas. This led to investigating the cadmium (Cd) contamination in the sediment, as well as in the leaves and roots of the mangrove species *Avicennia marina*. The methods included the collection of sediments and mangrove tissue samples per site and subjecting the collected samples for heavy metal analysis. It was found out that the highest concentration of Cd were in the sediment followed by the leaves, and then the roots. Additionally, the levels of Cd in the Palanas mangrove estuary may cause considerable risk to any aquatic organisms in the environment.

Water Quality Assessment of Selected Sites of Balintawak River in Lipa City, Batangas, Philippines

Hannah M. Bayani, Harvey D. Macalalad, Lorenz Albert O. Tapales

Summary:

This study was conducted to assess the water quality of Balintawak River located at Lipa City, Batangas. Collected once last September 2022, the water samples from the river was taken from the upstream, midstream, and downstream sites with three replicates each. These water samples were analyzed for physicochemical parameters (temperature, potential of Hydrogen, dissolved oxygen, biochemical oxygen demand, nitrate, phosphate, and total coliform count) and microbiological variable. It was found out that the water quality from upstream to downstream did not pass the classification of Department of Environment and Natural Resources (DENR) for Class C Freshwater Asset.

Source: VIP CORALS