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# ASSESSMENT OF COASTAL WATER CONDITIONS IN BARANGAY DALAHICAN IN LUCENA CITY QUEZON PROVINCE BASED ON OCCURRENCE OF AMPHIOXUS AND PHYSICO-CHEMICAL FACTORS

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### **ABSTRACT**

The study assessed the coastal water condition in Barangay Dalahican in Lucena, Quezon based on the occurrence of amphioxus thriving in coastal area together with the physical properties of coastal water. Water sample was collected and their physical and chemical properties were determined in different sites with 20 stations with 9 meters by 6 meters in measurement and has a distance of 2 meters between each stations. Results were listed as references based on result there was no more species of amphioxus present in the coastal waters in Barangay Dalahican Quezon. However based on the survey conducted at the National Museum the only species of *Branchiostoma lanceolatum* that belong to Phylum Cephalochordata which has notochord, gill slits and dorsal nerve cord. This species spend much time buried in sand but found mostly on shallow water. The physico-chemical conditions were analysed and based on results standard physico-chemical based on DENR classification was met the salinity, water temperature, nitrate, phosphate, pH, and dissolved oxygen. There was no statistically significant correlations between spawning dates and such environmental factors as salinity and water temperature.



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