

FLUCTUATION OF SURFACE WATER QUALITY IN HAU RIVER WITHIN MAI DAM TOWN, CHAU THANH DISTRICT, HAU GIANG PROVINCE

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Summary

Surface water quality in Hau river within Mai Dam town, Chau Thanh district, Hau Giang province was monitored from march 2017 to march 2018 to provide baseline environmental data for future impact assessment. Surface water samples were collected at 13 sites with one month interval. Ten parameters including pH, DO, TSS, N-NH₄⁺, N-NO₂⁻, N-NO₃⁻, P-PO₄³⁻, COD, BOD₅, As, Cu, Cd, Pb, Fe_{total} and phenol were detected. The result showed that eight parameters including pH, N-NO₃⁻, PO₄³⁻, As, Cd, Cu, Pb and phenol were less than limitation values at A2 QCVN 08:2015/BTNMT. To compare with the limitation values at A2 QCVN 08:2015/BTNMT, 18% total sample have N-NH₄⁺ over from 1.03 to 2.5 times. For N-NO₂⁻, 20% of total samples have nitrite varying from 1.2 to 5 times the limitation value. With the total iron, 60% total samples have concentration fluctuating from 1.01 - 3.86 times of the limitation value. For TSS, 65% samples were 1.03 to 3.93 times of the limitation value. It was not seen ob-normal water quality degradation in the study area. Continue monitoring water quality, particularly parameters which accede the limitation values for early warning is highly recommended.

Keywords: *Surface water quality, Hau River, Mai Dam town, Hau Giang province.*