

Sitthi Kulabthong 2012: Ecology and Upstream Water Manipulation for Fisheries Resources Conservation in Salakphra Sanctuary Khwae Yai Wetland, Kanchanaburi Province. Master of Science (Fishery Management), Major Field: Fishery Management, Department of Fishery Management. Thesis Advisor: Ms. Idsariya Wudtisin, Ph.D. 109 pages.

Study of aquatic resource manipulation was conducted in Salakphra Sanctuary, Lower Khwae Yai Wetland, Kanchanaburi Province, in May and September 2012. All ecological data show that, water resource in study areas can be separated into 2 zones. The 1st zone has the water quality in criterion for the standard of surface water, appropriate for living of the aquatic animals and all ecological indicators showed that good condition, natural plentifully and ecological fragility area because many fishes in the area are endemic species. The 1st zones are namely Hui Lor, Hui Sadong, Hui Lumesu and Hui Maelamun. Guide line for management in the 1st zones is supposed to policy specification for exist the original natural characters and modify least. The 2nd zone has lower the water quality is in criterion for the standard of surface water and all ecological indicators showed that decadent condition. Guide line for management in the 2nd zones is separated into 2 areas namely Hui Salukphar and river mouth of Hui Lumesu. Hui Salukphar is found uncorrect standard form hard dam, the dam is affected to sediment accumulation. In this area should be dredge the sediment and adjust the standard form of hard dam. River mouth of Hui Lumesu is found the sediment accumulation in dry season should be grow the animal feed grass for bank protection and animal feed.

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Student's signature

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Thesis Advisor's signature