**Abstract.**

 **Research Title**  : Patterns and Participation of Communities in WasteWater

 Management: in Samut Songkram Province Participation of

 Communities in WasteWater Management: in in Amphawa

 district, Samut Songkram Province

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The research was on Community Participation in Waste Water Management in Provincial Areas Samut Songkhram is intended to be explored. And analyze the quality of waste water in the main canal Mae Klong River. Samut Songkhram Province studied the level of community participation in wastewater management in Samut Songkhram Province. Study the factors that contribute to community participation in wastewater management process in Samut Songkhram and To find out the model of community participation in waste water management in Samut Songkhram province. Surface water quality was investigated in Mae Klong River main canal and effluent quality from the community. There are 40 samples of surface water and effluent from the community, according to the parameters of the Pollution Control Department. Finding the level of public participation in wastewater management by choosing 395 households, the questionnaire was used to find the mean and standard deviation. The 395 households selected questionnaires for participatory sampling. Findings of participatory community participation in waste water management in Samut Songkhram Province. Subgroups meeting And brainstorm By descriptive Research conducted in October 2016, July 2017.

 The results showed that (1) Surface water quality from the main canal and Mae Klong river was Many parameters Type 3 effluent quality from community sources in Samut Songkhram Province had a very high level of BOD and temperature, and PH was at a high level. Low in the negative and surface water quality in the main canal. Mae Klong Mae Klong and effluent quality from community sources were significantly different (0.05). (2) Public participation in wastewater management in Samut Songkhram Province was classified by area. Conclude that in District town Bang Khen and Amphawa districts. The public participation in waste water management in terms of benefits was at a high level of 3.60). Decision Making / Planning And evaluation Is moderately (3.98). (3.) The study of the factors affecting people participation in wastewater management in Samut Songkhram Province. Overall, there were factors contributing to participation. The wastewater management was moderate. The average score was 3.09. The subjects with the highest level of motivation were the medium level of motivation. Average score was 3.32, followed by communication. Is moderately The average score was 3.09. Participation Is moderately Has an average score of 3.02 and management. Is moderately The average score was 2.94, respectively. Overall, the three districts Participation in wastewater management was moderate. When considering each side, it was found that. The subjects with the highest participation were motives at high level. Average score was 3.60, followed by communication. Is moderately The average score was 3.24. Management Is moderately The mean scores were 3.18 and the participation aspect. Is moderately The mean scores were 3.16, respectively. The most affected districts were Amphawa, Bang Khon, and Muang. In descending order The most significant factor of the three districts was motivation. . (4.) Focus group analysis of community participation in waste water management in Samut Songkhram Province concluded that some regulations and standards should be concerned such as improve law enforcement of effluent water, especially wastewater from agriculture and domestic., develop appropriated wastewater treatment system, study feasibility of irrigation system for transfer wastewater from the treatment plant to agricultural

area which is suitable for cultivation during water shortage period. Besides, enhancing environmental awareness projects and activities for local community and youth for monitoring water resources regularly should be established.

 Keyword : Patterns andParticipation of Communities , WasetWater Mangement, Samut Songkram Province.