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Abstract

The objectives of this research were to study 1) the management of groundwater by the industries in Amphoe Muang, Changwat Khon Kaen, 2) factors that affect the management of groundwater by the industries in Amphoe Muang, Changwat Khon Kaen. and 3) problems and obstacles in the management of groundwater and solution to the problems as indicated by the industries in Amphoe Muang Changwat Khon Kaen. The number of sample were 140 factories in Amphoe Muang Changwat Khon Kaen. Questionairs were used for data collection, and the Statistical Package for Social Sciences (SPSS for windows) computer program were applied for data analysis. The statistics used were 1) descriptive statistics including frequency distribution, percentage, mean, standard deviation, maximum and minimum values; and 2) inferential statistics including the multiple regression to analyse the factors that affect the management of groundwater by the industries in Amphoe Muang Changwat Khon Kaen.

The result of the research shows that 77.1% of the industries in Amphoe Muang, Changwat Khon Kaen has managed the groundwater at a satisfactory level. The multiple regression analysis shows that the factors that affect the industries management of groundwater include responsiveness to the government' s industrial development policy, and support from the government sector. Both factors explain 57.3% of the variation in the groundwater management of the industries under study.

The research also finds that the problems and obstacles in management of groundwater by the industries in Amphoe Muang, Changwat Khon Kaen include lack of the groundwater in summer, personnel's lack of knowledge and understanding in law and rules of the management of groundwater, and the industries' lack of expert in the management of groundwater.