

# *Effects Operating Parameters on Settlers Performance in Water Treatment Units (Case Study Qarmat Ali)*

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## Abstract :

Oil production from oil wells required injected water to push oil out of wells. At Basrah in 1978 Qarmat Ali plant supply water to South Oil Company, was built.

Qarmat Ali Water Treatment Plant consists of many units that to treat water river used that in wells for injections.

Settlers are the most important units in Qarmat Ali Water Treatment Plant. The operating parameters that affect settler's efficiency had been studied, water specifications from the inlet and outlet of settlers such (TDS, pH, Temp., COD,...etc) through one year were collected and analyzed.

The study concluded that water temperature and seasonal impacts are plying a significant role on settler performance, in addition to the effect of COD.