

## Phosphorous Removal for Mid-strength Using Fluidized-bed Map Reactor

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Phosphorus removal by MAP(Magnesium Ammonium Phosphorous) crystallization method was shown to be efficient for high-strength wastewater ,but not effective for mid-strength wastewater with  $\text{PO}_4\text{-P}$  under 50mg/l. Thus, The applicability of the MAP crystallization process to mid-strength wastewater was evaluated experimentally using a bench scale reactor consisting of a fluidized bed reactor. The phosphorous removal rate improved using seed and about 80% phosphorus removal could be achieved under following condition: pH 8.5~8.7, Mg/P=1.