

RINGKASAN

PENGURANGAN KADAR ION Ca^{2+} , Mg^{2+} DAN Fe^{2+} DALAM AIR TANAH MEMAKAI BIJI KELOR

Telah dilakukan, pengurangan kadar ion Ca^{2+} , Mg^{2+} dan Fe^{2+} dalam air tanah Perbukitan Sambiroto Asri memakai koagulan biji kelor. Pengurangan kadar Ca^{2+} dan Mg^{2+} diuji dengan metoda titrasi kompleksometri. Pengurangan kadar Fe^{2+} diuji dengan metoda Spektrofotometri Serapan Atom. Hasil penelitian menunjukkan pengurangan kadar ion Ca^{2+} , Mg^{2+} dan Fe^{2+} . Sebelum perlakuan kadarnya berturut-turut ialah 53,972 mg/L; 23,833 mg/L dan 0,339 mg/L. Sesudah perlakuan tinggal 44,088 mg/L; 22,048 mg/L dan 0,072 mg/L. Terbukti di samping berperan sebagai koagulan, biji kelor juga mampu mereduksi kadar ion Ca^{2+} , Mg^{2+} dan Fe^{2+} .



SUMMARY

REDUCTION OF Ca^{2+} , Mg^{2+} AND Fe^{2+}

ION CONCENTRATION IN GROUND WATER WITH KELOR SEED

Reduction of Ca^{2+} , Mg^{2+} and Fe^{2+} ion concentration in ground water from Sambiroto Asri Hill by kelor seed as the coagulant. Decreasing in Ca^{2+} and Mg^{2+} ion concentration tested by means of complexometric titration method and decreasing in Fe^{2+} ion concentration by means of Atomic Absorption Spectrophotometry. Experiment indicate that decreasing in Ca^{2+} , Mg^{2+} and Fe^{2+} ion concentration. Before treatment : Ca^{2+} , Mg^{2+} and Fe^{2+} ion concentration gradually are 53.972 mg/L, 23.833 mg/L and 0.339 mg/L. After treatment to remain are 44.088 mg/L, 22.048 mg/L and 0.072 mg/L. Appeared to be true, that in addition to as the coagulant, kelor seed act also as decreasing agent for Ca^{2+} , Mg^{2+} and Fe^{2+} ion concentration.

