

SARI

Penelitian ini bertujuan untuk mengetahui pengaruh air hasil pengolahan *settling pond* terhadap air permukaan di lingkungan tambang. Metode yang digunakan adalah mengambil sampel air dan tanah disekitar lokasi penelitian. Berdasarkan hasil analisis air di sungai Mengkaok dan tanah yang ada di Pit Tarungin menunjukkan nilai yang normal sesuai dengan parameter pH, TSS, Besi dan Mangan. Sedangkan nilai pH dan Mangan di Pit Banta masih dibawah standar baku mutu, kualitasnya turun karena belum di lakukan proses pengapuran di *settling pond*, akan tetapi di perairan/ sungai pH netral. Sementara tekstur tanah yang di dominasi oleh debu dan curah hujan yang relatip tinggi menyebabkan tanah di sekitar mengalami erosi.

Proses aliran air permukaan dengan membawa material sulfida (pirit) hasil erosi, baik dari disposal maupun kawasan tambang diduga penyebab pH air sepanjang sungai Mengkaok dibawah normal. Oleh karena itu perlu upaya untuk pengolahan dan konservasi air dan tanah bekas tambang maupun di sekitar tambang.

Kata kunci : Penambangan, pengolahan, pH dan konservasi.

ABSTRACTION

This study aimed to determine the effect of processing the results of settling pond water to surface water in the mine environment. The method used is to take samples of water and soil around the study site. Based on the analysis of water in rivers and soil Mengkaok in Pit Tarungin showed normal values according to the parameters pH, TSS, Iron and Manganese. While the pH value and Manganese in the Pit Banta is still below the quality standard, the quality is down because it has not done the process of calcification in the settling pond, but in the waters / river neutral pH. While soil texture is dominated by dust and the relatively high rainfall causing soil erosion around.

The process flow of surface water by bringing the material sulphide (pyrite) result of erosion, both from disposal or suspected cause of the mine area along the river Mengkaok water pH below normal. Therefore it is necessary efforts for the processing and conservation of water and soil around the former mine and quarry.

Key words: Mining, processing, pH and conservation.