

Evaluasi instalasi pengolahan air dan kualitasnya di lokasi eksplorasi Kantor dan Perumahan total di Balikpapan, Kalimantan Timur, Indonesia = The evaluation of water treatment plant and its water quality at total site office and housing in Balikpapan, East Kalimantan, Indonesia / Waryati

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Abstrak

**ABSTRAK**

Air merupakan salah satu sumber daya alam yang paling penting bagi semua kehidupan di Bumi. Dalam fasilitas industri, air digunakan dalam berbagai kegiatan. Total dikenal sebagai Total E & P Indonesia (TEPI) adalah perusahaan yang beroperasi di Indonesia di sektor energi dan manufaktur kimia, terutama pada industri minyak dan gas. Makalah ini akan mengevaluasi kinerja instalasi pengolahan air terhadap kualitas air yang dihasilkan dan akan dibandingkan dengan peraturan air minum di Indonesia (Peraturan Menteri Kesehatan Republik Indonesia Nomor 736/Menkes/Per/VI/2010 tentang persyaratan kualitas air minum). TEPI memiliki enam Water Treatment Plant (WTP) untuk mendukung air bersih untuk ladang minyak dan gas, kantor, dan perumahan bagi karyawan dan ada WTP Gunung Karang, PWT Sepinggan, PWT Handil 2 Base, DWT Senipah, PWT Handil CPA (Central processing area), dan PWT CPU (Central Processing Unit). Dari pengamatan di lapangan, pemeliharaan periodik, hasil dari parameter analisis dipelajari (kekeruhan, pH, TDS, Fe, temperatur, residu klorin, bakteri umum, bakteri coliform dan bakteri E.coli) dan wawancara dengan operator dari PWT, bahwa ada tiga PWT dalam kondisi baik (WTP Gunung Karang, PWT Sepinggan dan WTP CPU), satu PWT dalam kondisi baik dengan catatan (DWT Senipah) dan dua PWT berada dalam kondisi buruk (WTP CPA dan WTP Handil 2 Base).

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**ABSTRACT**

Water is one of the most vital natural resources for all life on Earth. In industrial facilities, water is used in a wide range of activities. Total as known as Total E&P Indonesia (TEPI) is company which operating in Indonesia in energy sector and chemical manufacturing, especially on oil and gas industry. This paper will evaluate the performance of the WTP to the water quality produced and will be compared with the regulation of drinking water in Indonesia (regulation of Health Ministers of the Republic Indonesia number 736/Menkes/Per/VI/2010 about drinking water quality requirements). TEPI have six Water Treatment Plant (WTP) for supporting clean water for the oil and gas field, office and housing for the employee. There are WTP Gunung Karang, PWT Sepinggan, PWT Handil 2

Base, DWT Senipah, PWT Handil CPA (Central processing Area), and PWT CPU (Central Processing Unit). From observation in the field, the periodic maintenance, the results of analysis parameters studied (turbidity, pH, TDS, Fe, temperature, residual chlorine, general bacteria, bacteria coliform and bacteria E.coli) and interviews with operator from PWT, there are three PWT that in a good condition (WTP Gunung Karang, PWT Sepinggan and WTP CPU), one PWT in a good condition with a note (DWT Senipah) and two PWT are in a bad condition (WTP CPA and WTP Handil 2 Base).