

**PENGENDALIAN PEMANFAATAN AIR BAWAH TANAH
DI KOTA KUPANG**

T E S I S

Disusun Dalam Rangka Memenuhi Persyaratan
Program Studi Magister Teknik Pembangunan Wilayah dan Kota
Konsentrasi Manajemen Prasarana Perkotaan
Program Pascasarjana Universitas Diponegoro

Oleh:

TRISIANUS HANRY RINANDUS ADOE
L4D005095



PROGRAM PASCASARJANA
MAGISTER TEKNIK PEMBANGUNAN WILAYAH DAN KOTA
UNIVERSITAS DIPONEGORO
SEMARANG
2008

ABSTRACT

Underground water is alternative of raw water resources which used by Kupang City Government in fulfilling people needs, because, surface raw water resource is limited. Ninety percent of clean water needs fulfil by ground water resource. Water needs is getting increase along with human's population increase, it is causes ground water utility get increase.

According to Local Act Kupang City No 15 Year 2003, said that every ground water management should registered. However, many infractions to the rule and the punishment are weak. It could cause water utility uncontrolled.

The impact of water utilization with underground water that infiltrate getting emerge that sea water intrusion in several place marked by taste changing on drill well in Alak Sub-district that becomes salty. Therefore, underground water utilization management should perform to maintain and preserve the water resource.

This research aims to identify and evaluate influencing factors which is control utilization of underground water in Kupang City. This research focused on controlling efforts to underground water utilization in Kupang City by identify registration aspect, monitoring, law enforcement to underground water utilization and rehabilitation / conservation efforts of underground water by analyze the concept, actor or parties. And mechanism related with underground water utilization such above control effort.

Through description analysis method, by compiling obtained interview data, coding performed by interview data, continued by data categorization. Based on data categorization, it is interpreted and took the issues due to concept factor, actor, or party and mechanism of controlling underground water resource utilization in Kupang City Government includes registration aspect, monitoring, ordering and underground water rehabilitation / conservation.

Based on analysis result, concluded that controlling efforts on underground water utilization in Kupang City has not been use continuation concept of water resource. Controlling of underground water utilization is still forced by people needs priority due to clean water needs (it is hard to obtain clean water) and people income/welfare increase. Controlling of underground water utilization has not supported by proper and capable officer, and controlling mechanism has not supported by underground water data availability, better officer and adequate tools.

Based on conclusion, suggested that; increases of awareness through socialization and campaign, officer empowerment, provide underground water data, increase the supporting tools, increase coordination among agency, effective ordering and agency and agency involvement in controlling underground water utilization.

Keywords: underground water controlling, concept, party, mechanism.