

# **STABILIZATION MARSHLAND USE WASTE WOOD SAWS AND WASTE GLASS BOTTLES AGAINST THE INCREASED VALUE OF CBR**

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## **ABSTRACT**

Marshland is soft ground has any clay, silt and peat. Kind of clay / silt cohesive plastic which has the properties coherency between the grains and capable of continuously formed permanently with a relatively moderate pressure without rupturing. However, clay or silt becomes inconsistent / unstable to loading, resulting in a sharp decline in ering when the load on it (instability). Marshland that have unstable behavior is necessary to attempt to fix it. One attempt repairs chemically marshland can be done by recovering waste wood saws and waste glass as a stabilizing agent. Waste wood saws and waste glass bottles recycled in a manner that it becomes crushed fly ash (wood) and fly ash (glass) . Fly ash (wood) and fly ash (glass) serves as a filler (filler) and a binder (binder) in the marshland. Based on test results obtained optimum percentage value addition of fly ash (wood) and fly ash (glass) is in the marshland with a mixture of 10% and 10% fly ash (wood) with a fly ash (glass) curing 7 days old with a CBR value of 4.5325%. This shows that the soil with the CBR value (CBR 3% - 7%) can be used as a subgrade layer for local residential streets or roads with low traffic.

**Keyword :** stabilization, marshland, fly ash (wood), fly ash (glass), CBR.