

**MINING DIRECTION AND MINE RECLAMATION IN TERMS OF THE
DAMAGE LEVEL OF LAND ON STONE SAND MINING AT
UMBULHARJO VILLAGE, CANGKRINGAN, SLEMAN, SPECIAL
REGION OF YOGYAKARTA**

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ABSTRACT

Stone sand mining activities in the village of Umbulharjo, Cangkringan, Sleman, Yogyakarta, change the land use, the shape of the landscape and absence of oversight that good, it will be bad for the preservation of the environment and the lives of people who live in the area around the mining operations. This study aims to determine the level of damage caused by mining land in the village of Umbulharjo stone sands, and seek referrals mining and reclamation and environmentally sound land management on land after mining stone sands.

The research method is observation, and to methods of data collection using purposive sampling methods to measure and observe the parameters of physical environment based on Decision of the Governor of Yogyakarta Special Province Number 63 of 2003. Examples of measured parameters is basic relief such excavation pit depth as measured from the difference in height between pits with the pit closest excavation wall height measured using the meter from top to bottom minerals. Examples of observed parameters, such as mining which did not have permission from the government, then the top soil that is not managed in a way vegetation border of excavation in the form infrastuctur nearest of more than 5 meters from the mine, the condition of potholes and not be reclaimed at the mine site , Data from each of these parameters were calculated from each point of observation and measurement to determine the level of damage land at the mine site.

The results showed the level of damage to land in the category rate moderate and severe damage to land. Spacious all levels of land degradation in the research area is moderate damaged 1,05Ha (hectares) and damaged 0,15Ha weight of the total research area 1,2Ha. At the location where the mining area stone sand, damage to land heavily damaged very dominant. Based on the results of this study need to be done by way of mining technique Open Cast / Open Mine / Open Cut and reclamation efforts by making bench terraces to land heavily damaged, and do revegetation with alley cropping systems research sites.

Keywords: Mine Reclamation, Stone Sand Mining, Land Degradation