

**WATER QUALITY ANALYSIS OF OIL EXPLORATION  
IN THE BANYUASIN MATURE WELL  
JATIKLAMPOK VILLAGE, SUB DISTRICT BANJAREJO,  
BLORA DISTRICT, CENTRAL JAVA PROVINCE**

**By**

**Adhitya Ferdiansyah Wardhany**  
**114080089/TL**

**ABSTRACT**

Banjarejo district is one of the districts that have petroleum reserves. Oil exploitation in the Banyuasin mature well has done traditionally under the supervision of LPPM UPN "Veteran" Yogyakarta. This research aims to find out river water pollution level and the management guidance for overcoming the pollution caused by water produced in the Banyuasin mature well.

The methods used are survey method and data analysis. Data analysis method used is descriptive analysis and pollution indices to determine the status of river water quality (Environmental Ministry Decision No. 115 of 2003). The parameters used based on Environmental Government Role No. 19 of 2010 (COD, TDS, sulphide, phenol total, ammonia, oils and grease, and temperature) and Government Regulation No. 82 of 2001 (TDS, DO, temperature, and pH).

Upstream condition is no polluted (0,67), in the middle of river is intermediate polluted (5,19), and downstream condition is light polluted (4,73). Management guidance of produced water pollution control by has done in three ways, by using distillation technology approach or using reserve osmosis membranes, institutional approach and socio-economic approach.

*Key words:* oil exploration, water produced, pollution level, distillation, membrane reserve osmosis