INTISARI

Penelitian ini bertujuan untuk mengkaji karakteristik gambut terhadap pengelolaan lahan (*landuse*) yang berbeda. Pengambilan sampel dilakukan pada empat *landuse* yang berbeda, yaitu kebun nenas, kebun kelapa sawit, kebun jagung, dan hutan sekunder di Siak, Riau. Analisis sampel ini meliputi analisis fisika, kimia dan FTIR yang dilaksanakan di Laboratorium Fisika Tanah dan Kimia Tanah. Parameter Fisika Tanah meliputi analisis BV, BJ, porositas, dan kandungan lengas serta kematangan gambut indeks pirofosfat, sedangkan untuk parameter Kimia Tanah meliputi parameter pH, kadar abu dan C-organik, kapasitas pertukaran kation (KPK), Nitrogen total, P-tersedia, kation tersedia, kejenuhan basa, dan FTIR. Hasil penelitian menunjukkan bahwa gambut dengan *landuse* berbeda memiliki perbedaan karakteristik sifat fisika, kimia, dan luas area susunan gugus fungsi. Tanah gambut pada masing-masing *landuse* diklasifikasikan berdasarkan *Soil Taxonomy* menurut *Keys Soil Taxonomy* adalah *hemic haplohemist, hemic haplohemist, typic haplohemist, hemic haplofibrist.*

Kata kunci: Pengelolaan lahan (*landuse*), Karakteristik Fisika, Karakteristik Kimia, FTIR

ABSTRACT

This research was intended to study characteristic peat of different land use. Sample was taken in four different landuse, there is pineapple plantation, oil palm plantation, corn plantation, and secondary forest. Sample analysis included physical analysis, chemical analysis and FTIR analysis conducted in the Soil Physic and Soil Chemical Laboratory. Soil physical parameter included BV analysis, BJ, porosity, field capacity, and peat maturity with pyhrophosphate. Meanwhile, soil chemical parameter included pH, ash content and organic material content, cation exchange capacity, nitrogen content, phosphor, exchanged cation, base concentration and FTIR. Result of the research indicated peat with different landuse have different characteristic of physical, chemical and total of area functional groups. Peat on each landuse are classified by soil taxonomy is hemic haplohemist, hemic haplohemist, typic haplohemist, hemic haplofibrist.

Keywords: land use, physical characteristic, chemical characteristic, FTIR