

ABSTRAK

Ekosistem mangrove di Segara Anakan mengalami gangguan seperti alih fungsi lahan, kualitas perairan, dan sedimen di kawasan konservasi tersebut. Hal tersebut juga akan mempengaruhi *landscape* mangrove, kualitas air, dan karakteristik sedimen. Tujuan penelitian ini yaitu mengetahui kualitas air di Segara Anakan bagian Timur, karakteristik sedimen di Segara Anakan bagian Timur, dan *landscape* mangrove Segara Anakan bagian Timur berdasarkan kualitas air dan karakteristik sedimen. Metode penelitian yang digunakan adalah metode survei dengan pengambilan data menggunakan *line* transek pada 15 stasiun dengan masing-masing stasiun terdiri dari 3 plot. Hasil penelitian menunjukkan jika Segara Anakan Timur memiliki suhu perairan berkisar 22-31,23°C, salinitas air 14,5-27,8 ppt, dan pH berkisar 6-8,15. Pada sedimen di Segara Anakan Timur diketahui pH berkisar 4,14-5,8; salinitas 18-22,5 ppt; fosfat 7,2-13,7 mg/kg; pirit 1,37-1,81%; dan tekstur sedimen tanah lumpur berliat. Analisis *landscape* mangrove berdasarkan zonasi kualitas air dan karakteristik sedimen di Segara Anakan Timur didasarkan pada kerapatan mangrove, yaitu jarang, sedang, rapat, dan sangat rapat. Hasil analisis *landscapenya* yaitu antara 3 zona pada masing-masing kerapatan memperlihatkan pola zonasi yang dapat dilihat dari jenis mangrove yang mendominasi dan kualitas air yang cenderung fluktuatif dengan kondisi sedimen lumpur berliat.

Kata Kunci : *sedimen; kualitas air; mangrove; landscape; Segara Anakan Timur*

ABSTRACT

The ecosystem of mangroves in Segara Anakan is disturbed by land conversion water quality and sedimentation. This will give impact mangrove landscape, water quality and characteristics sediment. The study aimed to determine the water quality in the Eastern Part of Segara Anakan, the characteristics of sediment in the Eastern Part of Segara Anakan, and the mangrove landscape of the Eastern Part of Segara Anakan based on water quality and sediment characteristics. The research method used a survey method to collect data using line transects in 15 stations with each station consisting of 3 plots. The results showed that East Segara Anakan had a water temperature ranging from 22-31.23°C, water salinity of 14.5-27.8 ppt, and pH ranging from 6-8.15. In the sediment in East Segara Anakan, the pH is known to range from 4.14-5.8; salinity 18-22.5 ppt; phosphate 7.2-13.7 mg/kg; pyrite 1.37-1.81%; and clayey mud soil sediment texture. Mangrove landscape analysis based on water quality zoning and sediment characteristics in East Segara Anakan is based on mangrove density, namely sparse, moderate, dense, and very dense. The results of the landscape analysis, namely between 3 zones at each density, show a zoning pattern that can be seen from the dominant mangrove species and water quality that tends to fluctuate with clayey mud sediment conditions.

Key words: *sediment; water quality; mangrove; landscape; East Segara Anakan*

