

Pemantauan kadar logam berat dalam sedimen di perairan Teluk Jakarta

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Abstrak

Pengamatan terhadap kandungan logam berat dalam sedimen telah dilakukan di perairan Teluk Jakarta pada bulan Juni dan September 2003. Kadar logam berat dalam sedimen di bagian Barat Teluk Jakarta berkisar antara Pb = 8,49-31,22 ppm, Cd = <0,001-0,47 ppm, Cu = 13,81-193,75 ppm, Zn = 82,18-533,59 ppm dan Ni = 0,99-35,38 ppm, sedangkan bagian Tengah Teluk Jakarta, kadar Pb berkisar antara 2,21-69,22 ppm, Cd = <0,001-0,28 ppm, Cu = 3,36-50,65 ppm, Zn = 71,13-230,54 ppm dan Ni = 0,42-15,58 ppm dan bagian Timur Teluk Jakarta, kadar Pb berkisar antara 0,25-77,42 ppm, Cd = <0,001-0,42 ppm, Cu = 0,79-44,94 ppm, Zn = 93,21-289,00 ppm dan Ni = 0,42-128,47 ppm. Kadar logam berat dalam sedimen di bagian Barat Teluk Jakarta lebih tinggi dibandingkan di bagian Tengah dan Timur Teluk Jakarta. Sedimen di bagian Barat Teluk Jakarta mempunyai tekstur berupa lumpur yang berwarna hitam, hal ini terbukti bahwa sedimen yang mempunyai tekstur berupa lumpur mengandung logam berat yang cukup tinggi.

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Observation on Heavy Metals in Sediment of Jakarta Bay Waters. Observation on heavy metals in Jakarta Bay, from June and September 2003. Heavy metals Pb in sediment at the West have been conductet of Jakarta Bay Waters varied between Pb = 8,49-31,22 ppm, Cd = <0,001-0,47 ppm, Cu = 13,81-193,75 ppm, Zn = 82,18-533,59 ppm and Ni = 0,99-35,38 ppm, while those at the Center of Jakarta Bay, varied between Pb = 2,21-69,22 ppm, Cd = <0,001-0,28 ppm, Cu = 3,36-50,65 ppm, Zn = 71,13-230,54 ppm and Ni = 0,42-15,58 ppm and at the East of Jakarta Bay, Pb content varied between 0,25-77,42 ppm, Cd = <0,001-0,42 ppm, Cu = 0,79-44,94 ppm, Zn = 93,21-289,00 ppm and Ni = 0,42-128,47 ppm. Hevy metals content in sediment the West of Jakarta Bay was high of equivalent the Center and East of Jakarta Bay. At than those composition sediment at the west was black, that indicated high heavy metals content.