

12th Edition of International Conference on

Oceanography & Marine Biology

December 03-04, 2018 Rome, Italy

J Mar Biol Oceanogr 2018, Volume 7 DOI: 10.4172/2324-8661-C2-015

Polycyclic Aromatic Hydrocarbons (PAHs) pollution relationship to oil industry in the surface sediments from Persian Gulf

Mehdi Hosseini^{1,2} and Shirin Rahmanpour²

¹Islamic Azad University, Iran ²Zystab Industry of Persian Gulf Institute (ZIPGI), Iran

The concentrations of 16 Polycyclic Aromatic Hydrocarbons (PAHs) were determined in the sediment from the southern Caspian Sea in summer and winter 2016. The sum of 16 PAHs (Σ PAH) concentrations varied from 14.7±1.07 ng g⁻¹ dry weight to 1034.2±1.54 ng g⁻¹ dry weight and 11.6±2.54 ng g⁻¹ dry weight to 138.8±1.87 ng g⁻¹ dry weight in summer and winter, respectively. There was no significant correlation between PAH and TOC (P>0.05). PAH source identification showed that the PAHs in the sediments come from petroleum and petroleum combustion origin. Based on classification of pollution levels, sediments from southern Caspian Sea could be considered as low to moderately polluted with PAHs..

mehdihosseini014@gmail.com