## PCBs and DDTs in surface mangrove sediments from the south of Iran (ID NO. 048)

## **ABSTRACT**

Mangrove sediments were collected during wet and dry seasons from nine stations in Khamir, Laft and natural reservoir mangrove-dense areas of Hormozgan province in the south of Iran.  $\Sigma$  PCBs ranged from 5.33 to 15.5 ng/g dry weight and the dominant congener was no.153. Average  $\Sigma$  DDTs for Khamir and Laft mangroves were  $16.58 \pm 1.51$  and  $18.8 \pm 9.98$  ng/g dry weight. DDT was more abundant than DDE and DDD isomers, which indicated the input of DDT. The sediment quality guideline shows that the concentration of  $\Sigma$  PCBs were below the ER-M guideline, whereas levels of  $\Sigma$  DDTs were between ER-L and ER-M. The mangrove ecosystem in Hormozgan province is suffering from urban and industrial development.

**Keyword:** PCB; DDT; Mangrove sediment; Hormozgan province; Iran