

# **STATUS OF SEAWATER QUALITY IN HA LONG BAY AND SOME MANAGEMENT SOLUTIONS**

**Vo Huu Cong, Le Thi Huyen, Bui Thi Nha Trang, Hoang Viet Dung**  
**Summary**

The coastal area of Ha Long bay plays an important role in economics development such as the tourism, mining, industry, trade and aquaculture but also suffers from environmental pollution. Resolution No.36-NQ/TW on the Strategy for sustainable development of Vietnam's marine economy towards 2030 and a vision to 2045 sets out six issues, of which the fifth focuses on the environment. This study based on reviewing the available scientific information on the status of the seawater environment in coastal areas of Ha Long bay, focusing on environmental pressures, seawater quality, especially the heavy metal content in the bay's seawater. The studied results show that the bay's coastal areas are being polluted by the oil, grease, heavy metals such as arsenic, iron, and mercury. The concentration of As, Cu, Pb in bottom sediment is higher than the influence threshold (TEL) of Canada.

**Keywords:** *Ha Long bay, coastal area, marine environmental pollution, heavy metals, influence threshold TEL, environmental management.*