

**ASSESSMENT
OF LAND-BASED SOURCES OF WATER AND
LAND POLLUTION ON THE UKRAINIAN BLACK SEA COAST**

GEF Black Sea Environmental Programme and Land Based Sources of Pollution

Gathering information on the sources of pollution to the Black Sea is one of the basic requirements of the Odessa Ministerial Declaration, 1993. According to item 12 of the Declaration the Black Sea countries have the obligation “To complete, before 1996, an assessment of source and levels of the substances listed in Annex I and Annex II to the Convention on Protection of the Black Sea Against Pollution (Protocols on the Prevention of Pollution from Land-Based Sources and from Dumping) and to conduct preliminary studies of their environmental effects.”

WATER POLLUTION

The land-based sources are divided into three groups regarding to their nature and the existing data:

- domestic sources - towns, villages and resorts on the Black Sea coast,
- industrial sources (dumping into the sea or into the lakes channeled to the sea),
- rivers.

LAND POLLUTION

The sources of land pollution are divided into two groups regarding their origin-domestic sources and industrial ones.

RIVER POLLUTION

There are 4 main rivers flowing into the Black sea on the Ukrainian coastline in Odessa and Nikolaev district. The most polluted rivers are Danube and Dnieper.

In the Crimea Republic there are 8 small rivers flowing into the Black Sea on the Ukrainian coast line. The most polluted rivers are Belbec, Chernay, Derekoika, Demergy, Ulu-Uzen. Rivers like Voron, Uskut, Tarkantash are the most cleanest.

The main sources of water pollution are the two biggest towns on the Ukrainian Black Sea coast - Odessa and Sevastopol which have population about 30% and industry about 50% of the Ukrainian seaside. Nevertheless. Along the Ukrainian seaside there are about 50 domestic sources of water pollution.

The discharge of the waste waters into Black Sea is one of the main ecological problem.

There are more that 50 important industrial sources of water pollution. After local treatment facilities they discharge their own waste waters into Black Sea directly, into the lakes channeled with the sea or into the town's sewage systems.

One of the main problems that have to be solved in the BSEP Project Document is reducing the influence of land - based sources of pollution. The LBS assessment is one of the most important data - gathering exercises in the BSEP.

The assessment also provides harmonized and objective information for defining investment priorities for the pollution.

Since all the sources can not be controlled directly, it is necessary to get a priority list out of the catalogued sources. It is necessary to set priorities among the most significant polluters and in the long term to evaluate the financial and technical inputs to reduce the pollution from land - based sources. This could formulate a uniform action plan in different phases that would provide a substantial improvement in the Black Sea.

The Key strategic areas to be developed are:

- continuation of the process of implementation of the routine monitoring of land - based sources of pollution;
- implementation of demonstration projects to reduce the land - based sources of pollution;
- construction of a data - base system.