

## Answers on the questions

There is the experience of the excavation of the polluted soils in Russia. It is concerns predominantly the soils polluted with organic substances at the territories of oil extraction and transport of oil and oil products and soils of industry territories polluted with heavy metals. The materials of the excavated polluted soils are buried on the special polygons. The materials of the excavated soils are placed often between the layers of the buried solid living wastes. Such polygons are most of all are placed near great cities and industrial centers.

Answers on the questions.

9a. The grasses, trees and shrubs are grown on the territories where the excavated polluted soils have been buried for organizing of comfortable landscapes there. The monitoring of these soils is provided on the base of criteria's that are usually used for the identification of the polluted soils. They are presented by three documents: a) critical levels of some chemicals (heavy metals and pesticides), that are universal for all types of soils (there are 5 levels of pollutants content in soils); b) the oriented critical levels of some heavy metals in soils that are differ for soils with different texture and reaction; c) background contents of chemicals in soils of natural landscapes. There are no special sites in Internet in this field. The documents with the recommendation of the polluted soils monitoring are published in Russian. They are named «Методические рекомендации по выявлению деградированных и загрязненных земель», that have been worked out in 1995 year by some organization that are responsible for the ecological state of soils in Russia.

The main positions of these documents are follows:

- 1) the regular (every 10-15 years) determination of the pollutants content in soils;
- 2) the assessment of the pollutants content in soils on the base of the above named documents: the content of pollutants in soils of 5-th level of pollution exceeds their content in soils of 1-th level of pollution 5-7 times;
- 3) the mapping of the territories on the base of the pollutants content in soils (1:10000, 1:50000).

9b. The risk assessment of the polluted soil burry is provided on the base of the monitoring of the ground water of these territories. The content of the pollutants in ground water should not exceed their permissible level for ground water.

10. The territories with excavated buried polluted soils are not used for agricultural purpose. Some simple ameliorants such as lime, clays, mineral fertilizers can be used on these territories.

11. There are no special procedures for the secondary using of the polluted soils that are excluded from using.