

## Enhanced Aerobic Biodegradation Feasibility Test

Enhanced Aerobic Biodegradation is usually used for removal of petroleum hydrocarbons. This technology is based on the ability of aerobic bacteria to exploit undesirable organic compounds as a source of carbon and energy. Organic compounds are then decomposed to water and carbon dioxide.

DEKONTA offers a wide range of laboratory testing services to evaluate the efficiency of the Enhanced Aerobic Biodegradation technology:

- Different contaminated matrices (groundwater, wastewater, soil) can be tested;
- Simulation of *ex-situ* /*in-situ* treatment;
- Batch or column experiments.

Different bioremediation approaches may be used:

- Bioaugmentation with different kinds of bio-preparations;
- Enhanced bioremediation (nutrients, oxygen, commercial products etc.).



DEKONTA owns several bacterial solutions DEKONTAM<sup>®</sup> for bioremediation of contamination by petroleum hydrocarbons.

- Mixture of bacterial strains with high biodegradation potential;
- Non-toxic, non-pathogenic, non-GMO;
- Suitable for treatment of soil, sludge, groundwater and wastewater;
- Approved by relevant authorities in the Czech Republic and in the European countries.



Our further services in the bioremediation area are as follows:

- Isolation of new bacterial degraders of organic substances;
- Monitoring of bioremediation - microbiological analyses, respiratory tests;
- Bacterial solutions 'tailored' for biofilter installations.

Lab test duration: 2 – 9 weeks

Price of lab test: Available on request

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