Bioremediation Technology Utilizing Activated Peat Moss Treatment Of Petroleum Contaminated Soils

A Field Study Project
Between
USDOE & FORSCOM
And
The ARK Enterprises, Inc.

Worked performed at:
Hunter Army Airfield, Georgia

Brief Overview:

The ARK Enterprises, Inc. was approached to perform a pilot study of the technology using "activated" peat moss for the treatment of petroleum contaminated soils.

Although an in-situ application could have been performed, the decision was made to have two separate bio-cells created and to test the technology on diesel contamination and gas contamination.

The recommended approach for fast remediation for this type of landfarming was to re-till the soil at specific times and to monitor the moisture content. However, the study was geared for worse case scenarios, there would be no further tilling. In addition, the normal approach for the application of the peat was to till it into the soil. In this case, the only cutting through the clumps of dirt and clay was with a bobcat fork. Therefore, the peat would have to work harder to wick the oil from the chunky soil.

DOE and FORSCOM were very pleased with the results of this test and they are now working on a permanent bio-cell for treatment of their petroleum contaminated soils.