

Advanced BioTech

Developer of BioWorld Products

FUEL OIL BIOREMEDIATION CASE STUDY

A former #6 fuel oil (Bunker C) underground storage tank area contained approximately 6,000 cubic yards of contaminated soil. Twelve (12) treatment cells were constructed containing 500 cubic yards per cell. Initial Total

Petroleum Hydrocarbon (TPH) concentrations in the soil averaged 4,000 ppm.

The targeted level for closure was 100 ppm. BioWorld Bioremediation Technology was selected over several methods as the most efficient and costeffective solution for cleanup. Specialized compounds, vitamins, and minerals, in conjunction with hydrocarbon degrading microbes, were added to the cells using a water truck on a monthly basis for 3 months. Mechanical discing of the cells was conducted to provide mixing and aeration. The site is located in a desert region with minimal rainfall. Water was added to maintain a limited amount of moisture in the cells. The cleanup time was secondary to budget. After 11 months, the average TPH concentration was reduced to acceptable regulatory standards. The project is deemed complete with no further clean-up action required.

AVERAGE TPH CONCENTRATION VS. TIME

