

Itec 2000 Equipment uses Microbiate's Oil Spill Kit to bioremediate land.



Itec 2000 Equipment & Hydraulics is a locally owned and operated Northern Ontario company with over 15 years in the forestry and construction equipment and parts industry. Itec 2000 Equipment started using Microbiate in 2015 and is proud to say that it worked so successfully, that employees are now required to have a Microbiate Spill Kit on site at all times.

What is Bioremediation?

Bioremediation is the process of using microbes to rid pollutants from a contaminated site. Microbes are added directly to the site eliminating the cost of removal and/or disposal of soils or water.

The Problem

Ray Jarvinen, President of Itec 2000 Equipment is responsible for the environmental health and safety of his company and the land. In 2015, it was noted that a piece of heavy equipment had leaked unknown hydrocarbons onto the ground. This contamination was a black mark on the company and needed to be resolved.

The Problem with Traditional Oil Kits

The initial thought to resolving the problem was to use conventional traditional spill kits to absorb the remaining mixed oils, however there were a number of problems with this idea. First the oils had begun to seep into the soil, and traditional spill kits can only absorb the oil sitting on the surface. Second, and most importantly, traditional oil spill kits do not solve the problem, they only absorb the oil, resulting in contamination being moved to another location.

The Microbiate Solution

Seeing the problems with traditional methods, Itec 2000 Equipment hired Microbiate to apply their Oil Spill Kit to remediate the soil. The kit was applied in early September 2015 and monitored over the next 45 days. There was an initial rapid degradation of oil (hydrocarbons) which then slowed and ultimately came down to levels less than MOE standards.

Itec 2000 Equipment was happy with the results. The oils were within regulated standards, bringing the land back to its original condition. The ground was aesthetically pleasing again, no longer a black smear of oil but re-growing with natural plant life.

It took just **a few simple steps**



1 Identify the contaminated area



2 Sprinkle the sawdust mixture (Package 1) over the contaminated area



3 Sprinkle the contents of Package 2 over the contaminated area



4 Rake the mixtures into the affected area



5 Saturate the area with water



6 Within a few months, regrowth appeared

Microbiate's Oil Spill Kit Biologically removes odor and toxic effects of a wide range of oils, including fuel oil, hydraulic oil, engine oil, and mixed or unknown oils.

About Microbiate's Oil Spill Kit

Microbiate's Oil Spill Kit is an innovative, natural solution for remediation of oil. Contamination is a problem in many areas, the most environmentally conscious way to solve this problem is to utilize the organisms growing naturally in the same environment to remove contaminants. This solution is harmless to humans, animals and the environment. Microbes will reactivate with new spills, adding a preventive advantage for future spills.

