

5 EASY STEPS TO PROVING BIODEGRADATION A COLLABORATIVE TECHNICAL ACHIEVEMENT

A large component of monitored natural attenuation (MNA) or enhanced bioremediation is demonstrating that biodegradation processes are occurring or can occur at a given site. Microbial Insights in a collaborative effort with Microseeps has expanded the capabilities of Bio-Trap Samplers to not only determine the microbial response, but to also assess the presence and acceleration potential of degradation of a given contaminant in-situ.

This collaborative achievement involves the use of Bio-Trap Samplers which have been baited with known concentrations of contaminants or surrogates (¹³C enriched petroleum hydrocarbons or fuel oxygenates and fluorinated analogs of chlorinated solvents) to effectively answer questions such as:

Microseeps and Microbial Insights have developed a revolutionary process to quickly assess the presence and acceleration potential of degradation in a groundwater plume.

Is a contaminant being degraded by indigenous microbes at my site?

Will a particular amendment accelerate the biodegradation rate at my site?

Step 1:

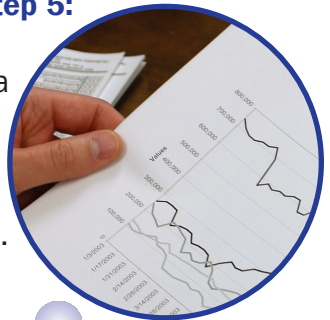


Design a site-specific Bio-Trap sampling and analytical approach.

5 Easy Steps to Your Answer

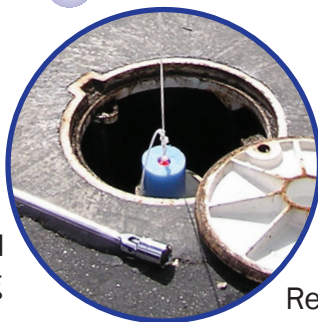
Step 5:

Prepare a comprehensive report detailing the results.



Step 2:

Deploy Bio-Trap Samplers in selected monitoring wells.

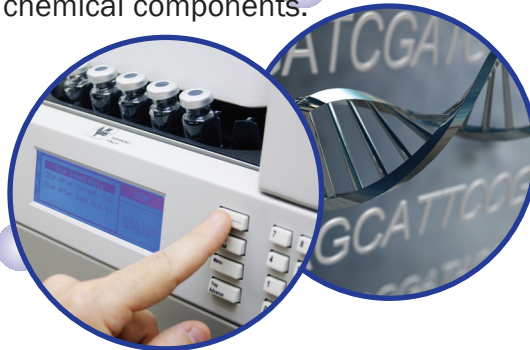


Step 3:

Retrieve Bio-Trap Samplers at selected time points.

Step 4:

Analyze for microbial and chemical components.



bio:trap

Bio-Trap® samplers are a patent pending technology developed by Microbial Insights in conjunction with the University of Tennessee and the University of Tulsa.



For more information, visit:

www.microbe.com
www.microseeps.com

