

## **Innovative Environmental Technologies, Inc Announces Publication Of Exciting New Patent Application**

*By Michael Scalzi, President*

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*The United States patent office published, on April 15th, 2010, IET's most recent patent application, "method for the treatment of ground water and soils using dried algae and other dried mixtures".*

INNOVATIVE ENVIRONMENTAL TECHNOLOGIES INC. (IET) IS PLEASED TO ANNOUNCE THE PUBLICATION OF ITS LATEST PATENT APPLICATION. This most recent patent application presents a unique and innovative method of inducing reducing conditions and stimulating anaerobic process through the addition of dried micro-blue green algae (Spirulina, Arthrospira Platensis, Arthrospira Maxima, Aphanizomenon flos-aquae, and chlorella) and seaweed (Dulse, Nori, and Kelp) to accomplish accelerated dechlorination of soil and groundwater contaminated with chlorinated solvents and heavy metals. Micro-blue green algae are rapid growing aquatic organisms that take their energy directly from the sun and the minerals in water, they contain amino acid proteins, organic vitamin B12, iron and essential fatty acids including gamma-linolenic acid (GLA), alpha-linolenic acid (ALA), linoleic acid (LA), stearidonic acid (SDA), eicosapentaenoic acid (EPA), docosahexaenoic acid (DHA), and arachidonic acid (AA). These organisms also are highly alkalizing, as a consequence their addition counter-acts the natural production of acids produced by-way of anaerobic dechlorination. These organisms are commercially available dried, in large quantities. The dechlorination process may be further accelerated by the addition of a zero-valent metal powder to the dried micro-blue green algae. When emplaced in groundwater and soils impacted by chlorinated solvents the micro-blue green algae offer all the needed components for effective and rapid remediation of compounds such as tetrachloroethane, tetrachloroethene, trichloroethane, trichloroethene, carbon tetrachloride and their anaerobic daughter products.

Michael Scalzi, president of IET, explains, "This latest patent application offers an entirely new, dry and highly soluble remedial compound to those environmental consultants, contractors and property owners struggling with the selection of biological enhancements for the stimulation of reductive dechlorinating cultures in-situ. As a stand-alone technology, or paired with abiotic mechanisms, our newest patent application is an exciting development for the environmental remediation market."

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Innovative Environmental Technologies, Inc. (IET) is an environmental contractor and technology vendor that provides a wide variety of remedial services throughout North America.

Category	Environment, Technology, Science
Tags	groundwater, soils, ground water, remediation, environmental remediation, in-situ remediation, bioremediation
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