

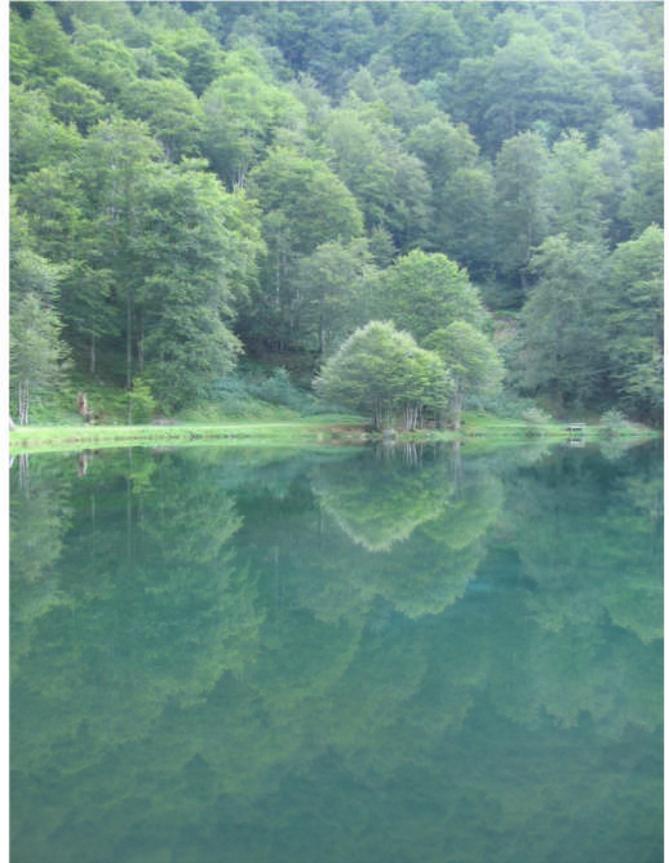
Bioremediation of a Lake in Southern Europe

Just before the start of the summer holiday season, a large lake used for leisure activities had suffered a diesel oil spill from a split oil storage tank next to a jetty. A film of diesel had spread out across the lake destroying its natural beauty and threatening to drive tourists away.

A tank containing 5,000 litres of diesel oil for boat fuel next to a jetty had split and had leaked much its contents into a large lake, which was used for water sports and other activities. There was a need to disperse the oil slick in order to restore the natural beauty of the lake before the tourists started to arrive in numbers. It was also important to ensure that the oil was broken down by natural processes as rapidly as possible to minimise environmental impact.

The oil slick was treated by spraying with a 1% solution of Global Advantech's Natural Bioremediation Agent BR912 in water. This product has been developed to rapidly disperse oil films on the surface of fresh and salt water into the water column. Then to stimulate natural biodegradation processes by micro-organisms in the water to breakdown the oil into carbon dioxide and water.

Natural Bioremediation Agent BR912 is non-toxic and contains rapidly biodegradable sugar-derived surfactants to disperse hydrocarbons and biostimulants to accelerate the natural biological processes at a controlled rate.



Two weeks after treatment of the lake, the diesel oil concentration had diminished to previous levels, just in time for the arrival of the tourists.

Global Advantech's biostimulant bioremediation products contain natural molecules, which are proven to catalyse certain cell defence mechanisms and accelerate specific metabolic functions within micro-organisms. Their addition enables indigenous micro-organisms to utilise the hydrocarbons and otherwise toxic organic molecules as food sources, rapidly degrading them to carbon dioxide, and simple salts.

Global Advantech Limited

Exceptional clean technologies for a sustainable future....

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