

Environmental Solution, Inc.



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Contact: John Paparone

Email: John@TotalBioSolution.com

Tel: 919-740-0546

Website: www.totalbiosolution.com

Expert makes case for maximizing effective marine oil spill response measures with bioremediation products

Summary: Maritime executives, shipowners and emergency response professionals alike know they need to have all the latest cost-effective and time-saving tools in their arsenal when it comes to maximizing their oil spill response capabilities and results. And as bioremediation expert John Paparone of Environmental Solution, Inc. advocates, ecologically-friendly bioremediation products should be part of the standard toolkit.

(Wake Forest, NC) March 10, 2012 The incidents of oil spills will continue to plague the marine environment as long as ships transit the world's oceans and oil rigs move into ever deeper waters.

"After worker safety, minimizing the effects on the environment is the main order of business in any oil spill response situation, but the use of bioremediation products as part of the plan is not largely understood in the maritime community," says John Paparone, owner of Environmental Solution, Inc.

Traditional oil response equipment includes the use of skimmers, a variety of booms, oil transfer pumps, dispersant spray equipment, oil storage equipment, response vessels and aircraft, plus additional equipment, people, and labor. These are necessary and critical components to the clean-up process, and naturally, they all cost time and money. However, bioremediation products not only help save time and money, they do not pose health risks for workers.

Paparone explains that bioremediation is the process of using naturally occurring, safe and beneficial micro-organisms to degrade environmentally harmful contaminants and turn them into non-toxic compounds. The organisms will break down most petroleum hydrocarbons and transform them into carbon dioxide (CO₂) and water, and this natural process will produce bionutrients that can be utilized by both plant and aquatic life. After bioremediation is completed, the environment is virtually restored to its pristine condition.

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John Paparone

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The process of bioremediation has been studied since the 1940s but it wasn't widely used until the *Exxon Valdez* oil spill disaster in 1989. Today, the Environmental Protection Agency (EPA) Office of Research, and the U.S. Geological Survey (USGC) continue studying this method, and the EPA endorses its use in oil response measures.

Says Paparone: "When you take into consideration that specialized bioremediation products are ready and safe to use, require no personnel training, and cost up to 70% less than other technologies, it makes sense to standardize this proven technique as part of all oil spill response measures."

About Environmental Solution, Inc.

Environmental Solution, Inc. distributes alternative, EPA-approved "green" cleaning products for maritime, industrial, and food processing applications. Our proven product line, backed by our manufacturer's 20-year track record of success, provides superior cost-effective, neutral pH, aqueous, safe-to-use, non-corrosive, and non-toxic results. Products are in active, work-ready preparations and require little training, and virtually no capital expense. Our mission is to keep your people safe and your working environment as clean and green as possible while saving you time and money. Visit our website for more details and a complete online catalogue at www.totalbiosolution.com.

