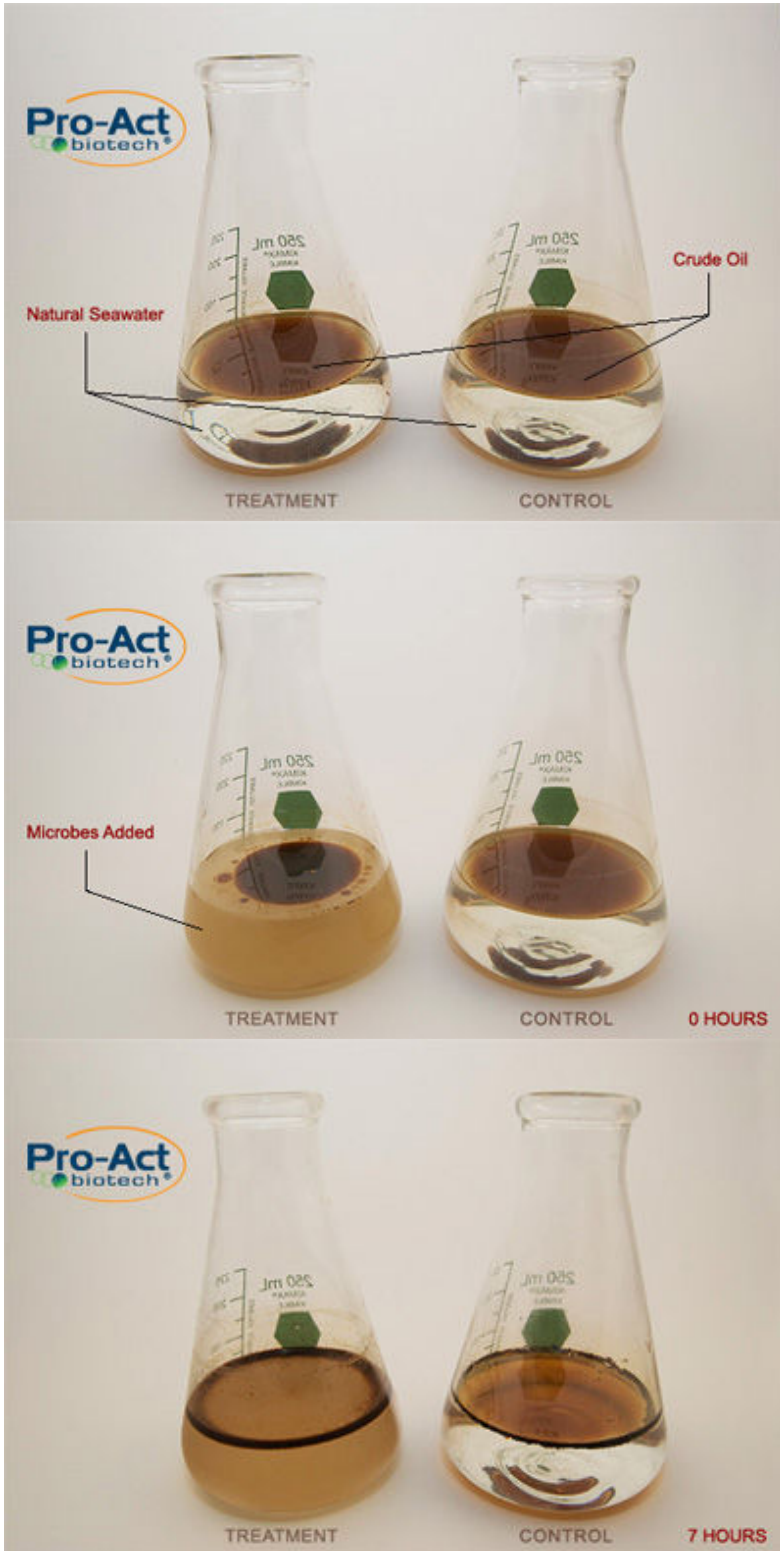


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Two flasks were filled with equal amounts of seawater. Then equal amounts of crude oil were added to each flask.

0 Hours

Our specialized Eco-safe microbes and activator were added to the treatment flask (left). The control flask (right) was not altered. Both flasks were placed in an incubation unit (shaken to provide aeration). In an actual coastal or wetland habitat, aeration naturally occurs with tides, currents or with external aerators.

7 Hours

There is no longer an oil-like sheen in the treatment flask -- unlike control flask.

Microbes produce surfactants (similar to the chemical dispersant but natural and safe to human, animals and the environment) that dissolved some crude oil in the water. The disappearance of crude oil on the water surface results as the oil particles fuse together and cling to the glass surface.

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14 Hours

Seven hours later, the dark ring of oil is noticeably thinner in the treatment flask, as the microbes actively degrade the oil. The control flask remains the same.

As the degradation process continues, microbes are reproducing inside the flask. The speed of the degradation process depends on a number of factors such as temperature, nutrients, amount of dissolved oxygen present in the water and hydrocarbon chain length.

19 Hours

Five hours later, the dark ring of oil is diminishing in the treatment flask. The seawater is noticeably darker due to the breakdown and dispersment of the oil in the presence of surfactants. This process is not harmful to Ecosystems unlike toxic chemical dispersants.

21 Hours

In less than a day of incubation, very little crude oil was visible in the treatment flask.

All natural seawater is not the same. There are many factors such as geological locations, tide and other conditions. Some oil degrading microbes exist in the Gulf water but the number is relatively low. By augmenting oil degrading microbes, we can speed up the bioremediation process and help clean up the Gulf faster.



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Treatment (*representation*): Ultimately after OilClean microbial treatment, with the flux of tides and weather, the organic, microbe-rich seawater will be dispersed into the sea, as well as digested by filter-feeding organisms such as crabs, shrimp and shellfish. The seawater will become decontaminated -- as it was before the oil disaster.

Without microbial treatment, the oil-devastated Gulf coast wetlands and marshes will endure for countless decades.

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