



# POSEIDON SCIENCES GROUP AND OIL SPILL REMEDIATION TECHNOLOGY DEVELOPED

April 20, 2023. Poseidon Sciences Group, in collaboration with Sulu Garden Foundation, Inc. (SGF Philippines) and Applied Minerals, Inc. (USA) validated the effectiveness of the novel non-toxic technology for cleaning up oil spill called Nereid 990.



Photo courtesy of CNN

The sinking of the tanker, MT Princess Empress, that carried 1 million liters of industrial oil in the waters of Mindoro Island (Philippines) is the most recent ecological disaster in the world. But, it presented an opportunity to fine tune the clay-based oil spill response technology that had been under development since the Deep Water Horizon oil spill disaster in the Gulf of Mexico two decades earlier.



The R&D was fast tracked through the laboratory research and semi-field studies in collaboration with SGF. Using actual oil spill material recovered from the tanker off the coast of Mindoro, the team was able to create an improved version of the previous Nereid 820, now referred to as Nereid 990. Nereid 990 is a sorbent. When dispersed on the surface of the floating industrial oil in natural seawater,



Nereid 990 breaks up the oil and enabled the oil to sink at the bottom of the sea in smaller pieces where natural marine bacteria can degrade the oil 10 times faster.

A field test was conducted in the seaside town of Pola, Oriental Mindoro last April 15, 2023. Nereid 990 was applied on the rocky shoreline contaminated with industrial oil during low tide. The Nereid 990-oil complex was washed away by the high tide the following day.



Nereid 990 is an oil spill dispersant made from specialized clay. It is nontoxic since industrial chemicals are not present in its composition. Nereid 990 is environmentally safe and has been proven to effectively absorb the oil, making it easier for clean-up operations. It also includes 4% iron oxide that encourages growth of marine bacteria and phytoplanktons. It can be used not only on rocks and seawater, but also on mangroves and other beach forest trees.

To learn more, please view our videos in SGF YouTube Channel using these links: <https://www.youtube.com/watch?v=9uJt9muidUo> & <https://www.youtube.com/watch?v=ld6BFDPZapM>

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