



## MEMORANDUM

**FOR** : **ASEC. MARCIAL C. AMARO, JR., CESO II**  
Assistant Secretary for Policy, Planning and  
Foreign-Assisted and Special Projects and  
Director, Biodiversity Management Bureau,  
In Concurrent Capacity

**ATTENTION** : **ARMIDA P. ANDRES**  
OIC Assistant Director, Biodiversity Management Bureau  
In concurrent capacity as Chief, Coastal and Marine Division

**FROM** : **THE REGIONAL EXECUTIVE DIRECTOR**

**SUBJECT** : **CLAY-BASED SORBENT TECHNOLOGY DEVELOPED BY  
SULU GARDEN FOUNDATION, INC. [E-2023-105908]**

**DATE** : **AUG 24 2023**

This has reference to the email dated March 22, 2023 of Sulu Garden Foundation, Inc. (SGF) expressing their interest in sharing their clay-based sorbent technology that could help mitigate the oil spill situation caused by the sinking of MT Princess Empress in Oriental Mindoro.

According to Ms. Norielle G. Diamante, Senior Science Officer, Sulu Garden Foundation, Inc., their technology, Nereid 990, is a non-toxic clay-based sorbent that can be dispersed on top of the oil spillage and contain the oil through absorption which can be hastened through wave action and that the clay and oil mixture will then sink to the bottom of the ocean to be degraded by marine bacteria. She furthered that the said technology can be applied in contaminated rocks and mangroves.

As such, we are respectfully requesting technical assistance from your Office in the evaluation of the effectiveness and potential environmental impacts of the said technology. Mr. John Japheth F. Fabellon (contact details: [cddcrfmsmimaropa@gmail.com](mailto:cddcrfmsmimaropa@gmail.com), +63905-782-1384) of the Conservation and Development Division will coordinate with your technical staff on the schedule of the presentation/demonstration of the said technology of the Sulu Garden Foundation.

  
**LORMELYN E. CLAUDIO, CESO IV**

CDD-CRFMS / JJFF / 07.06.2023



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DENR Mimaropa Region &lt;mimaroparegion@denr.gov.ph&gt;

**Non-toxic oil spill control technology**

1 message

**Sulu Garden Foundation, Inc.** <sulugardenfoundation@gmail.com>  
To: mimaroparegion@denr.gov.ph

Wed, Mar 22, 2023 at 6:35 PM

Sulu Garden Foundation, Inc. is a non-profit corporation and duly registered with the Philippine Securities and Exchange Commission. For more information about the Foundation, please see our website: [www.sulugardenfoundation.org](http://www.sulugardenfoundation.org). Our primary areas of interest include conservation sciences, heritage preservation and community development.

We wish to share with you our recent discovery of a clay-based, non-toxic technology that could help mitigate the oil spill situation caused by the sinking of MT Princess Empress at Oriental Mindoro. To learn more, please visit this link: [Sulu Garden Foundation, Inc. has developed a novel non-toxic technology to address Philippines' oil spill](#). Following the news, the oil now is in danger of reaching the shorelines of Palawan, which is as we all know, is one of the most important tourist destinations here, in the Philippines.

We conducted a series of experiments to test the effectivity of this technology in seawater. This specialized clay mineral when dispersed on top of the oil spill sample (collected from the waters of Mindoro), acts as sorbent (a substance that collects molecules of another substance by sorption). This action will be accelerated by wave movements to mix the clay with the oil. Then the clay with oil will sink to the bottom of the ocean where it will be biodegraded by marine bacteria at the bottom of the sea. This clay technology will also aid in the removal of oils from rocks and mangroves.

We expect this technology will help especially with the current oil spill situation of the country.

Thank you for your interest. Please let us know if you need further information.

Sincerely yours,

**NORIELLE G. DIAMANTE**

*Senior Science Officer*

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