



MEMORANDUM FOR THE SECRETARY

THRU : **UNDERSECRETARY MARILOU G. ERNI**
Chief of Staff and Supervising Undersecretary for Strategic
Communications Task Force Commander, Task Force Naujan Oil
Spill

FROM : **THE REGIONAL DIRECTOR**
EMB MIMAROPA

SUBJECT : **Complete Staff Work On The Oil Tanker Carrying 800k Liters
of Industrialized Fuel That Sank Off Naujan, Oriental Mindoro**

DATE : **15 March 2023**


MT Princess Empress, an oil tanker, carrying more or less 800,000 liters of industrial oil, sank off along the coast of Tablas Strait in Balingwan Point, Naujan, Oriental Mindoro on 28 February 2023. Based on the preliminary reports from the Philippine Coast Guard (PCG) situated in Oriental Mindoro, the vessel came from Bataan and on its way to Iloilo when it encountered engine trouble due to overheating until it drifted towards the coast of Balingawan Point and eventually submerged. On 01 March 2023, Governor Humerlito Dolor of the Province of Oriental Mindoro has officially reported through his Facebook account that the MT Princess Empress has sunk.

This Office, in coordination with other government agencies, LGUs, and stakeholders, immediately began monitoring and sampling activities. Attached to this CSW are the results of analysis from the water samples collected at the identified sampling stations, water and air testing, clean-up and cash for work report, and donations gathered for the clean-up activities and endorsed for your ready reference.

Chronology:

28 February 2023 (around 2:00 AM per news report)	MT Princess Empress, an oil tanker on its way to Iloilo from Bataan carrying 800,000 liters of industrialized fuel, sank off Naujan, Oriental Mindoro on Tuesday, 28 February 2023. Initial investigation revealed that the distressed tanker encountered engine trouble due to overheating. It then drifted towards the vicinity waters off Balingawan Point due to rough sea conditions until it became half-submerged. Port of Batangas manager Joselito Sino Cruz told DZBB that the vessel sank at around 2 a.m.
28 February 2023	<p>DENR issued a statement on the maritime incident involving mt princess empress off the coast of Naujan, Oriental Mindoro.</p> <p>Preliminary reports gathered state that the vessel encountered engine trouble and drifted towards the vicinity waters of Naujan due to rough seas. It then became half-submerged.</p> <p>Access to the area was limited due to the bad weather. Observation of the impact has been limited to aerial survey. The DENR is continuously coordinating with the local government of Naujan and the Philippine Coast</p>



	<p>Guard (PCG). We are monitoring the site in relation to the potential marine biodiversity impacts and the possible risk to lives and livelihoods in the area due to the direction of the current and distance from the shoreline which may be affected.</p> <p>As of this time, the vessel is positioned on the eastern side of Mindoro Island at an estimated distance of 8 to 12 nautical miles. Wind direction is northwards.</p> <p>The Philippine Coast Guard has mobilized certified oil spill response organizations to support the PCG operations.</p> <p><i>Source: DENR issued a statement on the maritime incident involving mt princess empress off the coast of Naujan, Oriental Mindoro</i></p>
<p>28 February 2023</p>	<p>This Office issued a Memorandum for the immediate investigation and sampling on the reported issue.</p> <p>The field personnel on the same day coordinated with the Coast Guard and LGU Naujan. The following actions were undertaken:</p> <ol style="list-style-type: none"> 1. Coordinated with Coast Guard Station (CGS) Oriental Mindoro. Coast Guard Seaman First Ryan Carpena confirmed via phone call that one of their units is currently investigating the area and no oil spill has been officially reported as of 02:00 PM. 2. Coordinated with Naujan Local DRRMO III Joery M. Gereleo regarding the reported oil spill and the proposed ocular inspection of the site on 01 March 2023. Gereleo shared information that the coast guard has yet to reach the site due to strong winds and waves, thus, delaying confirmation of an oil spill. <p>10:59PM - DENR issued a statement relative to the maritime incident involving Mt Princess Empress off the coast of Naujan, Oriental Mindoro.</p> <div style="text-align: center;">  <p>DENR STATEMENT ON THE MARITIME INCIDENT INVOLVING MT PRINCESS EMPRESS OFF THE COAST OF NAUJAN, ORIENTAL MINDORO</p> <p>The Department of Environment and Natural Resources (DENR) was notified of the incident at approximately 1:30 PM today and immediately instructed its regional personnel to access the site.</p> <p>Preliminary reports gathered state that the vessel encountered engine trouble and drifted towards the vicinity waters of Naujan due to rough seas. It then became half-submerged.</p> <p>Access to the area was limited due to the bad weather. Observation of the impact has been limited to aerial survey.</p> <p>The DENR is continuously coordinating with the local government of Naujan and the Philippine Coast Guard (PCG). We are monitoring the site in relation to the potential marine biodiversity impacts and the possible risk to lives and livelihoods in the area due to the direction of the current and distance from the shoreline which may be affected.</p> <p>As of this time, the vessel is positioned on the eastern side of Mindoro Island at an estimated distance of 8 to 12 nautical miles. Wind direction is northwards.</p> <p>The Philippine Coast Guard has mobilized certified oil spill response organizations to support the PCG operations.</p> <p>###</p> </div>



<p>01 March 2023</p> <p>(Around 6:10 AM)</p>	<p>Oil Spill confirmed as reported by the Philippine Coast Guard via their Official Facebook Page. BRP Melchora Aquino (MRRV-9702) sighted oil spillage with around 6-kilometer long and 4-kilometer wide in the waters of Balingawan Point, Naujan, Oriental Mindoro. The monitored spillage is diesel fuel, not industrialized fuel oil (cargo). It was likewise confirmed that the MT Princess Empress had fully submerged.</p> <p>Oil spill assessment and oil spill response operation is being conducted and the Coast Guard Aviation Force will conduct an aerial surveillance. To control the spillage, the PCG is set to install an oil spill boom.</p> <p>Source: https://m.facebook.com/story.php?story_fbid=pfbid02YAKMFSwgVAUgB9Y8h83jQX3fCbDKQgfVZH8dfwoMdY2chBFnZRCUSmSTwb6RyMLl&id=100064660843959&mibextid=Nif5oz</p>
<p>01 March 2023</p>	<p>This Office, in coordination with the PENRO Oriental Mindoro, Bureau of Fisheries (BFAR), and the Philippine Coast Guard (PCG), a preliminary investigation and water sampling to determine the extent and possible effects of the oil spill to the waterbodies of the province of Oriental Mindoro will be undertaken.</p> <p>This Office established a total of thirteen (13) water sampling stations.</p> <p>Municipality of Naujan</p> <ol style="list-style-type: none"> 1. Estrella Beach 2. Estrella 3. Sta. Cruz 4. Kalinisan 5. Antipolo 6. Pitugo Beach 7. Papangkil Beach 8. Montemayor Cove 9. Masaguing (16 has with fish sanctuary) 10. Tujod (30 has with fish sanctuary) 11. Buloc-Buloc (72 has MPA) <p>Municipality of Pola</p> <ol style="list-style-type: none"> 1. Polacay Beach 2. Calima <p>Municipality of Pinamalayan</p> <ol style="list-style-type: none"> 1. Banilad <p>7:52 AM – The following Provincial Environmental Management Unit (PEMU) – Oriental Mindoro staff had a meeting with Naujan Naujan Local DRRMO III Joery M. Gereleo to explain the objective of the sampling and site visitation.</p>





1. Ma. Teresa Riziel I. Caya
2. Deunise Angelo H. Abu
3. Carlotta Levinia R. Jugno
4. Mary Grace M. Valiente
5. Ceasar G. Raymundo

During the meeting, Mr. Gereleo stated that the nearest area, as to Philippine Coast Guard (PCG) update on the half-submerged vessel, is at Barangay Herrera, Naujan, Oriental Mindoro. It is the boundary of the Municipality of Naujan & Pola. He added that no report of possible oil spill that may have been carried by the current was forwarded to their office by the barangays along Tablas Strait from Barangay Estrella to Barangay Herrera.

9:30AM – This Office coordinated with Pola Municipal Disaster Risk Reduction and Management Office (MDRRMO) on the status of the nearest area within their Municipality that may be affected by oil spill from the submerged vessel.

According to Pola MDRRMO, around 1:00 PM on February 28, 2023, Bantay Dagat roaming the area observed presence of oil spill but vanished in the near shore since the wave direction is going to the Province of Marinduque.

12:10 PM – The Philippine Coast Guard dispatched air surveillance to assess the extent of the oil spill. PCG further directed for the creation of a crisis management system. Aside from BRP Melchora Aquino (MRRV-9702), PCG will deploy BRP Habagat (TC-271) to serve as a marine pollution platform.

Source:

https://m.facebook.com/story.php?story_fbid=pfbid0cB3ZUZBaGqTWsC6VSxzQMq58yL54ZPJQwTBVHj9cBq22pFwkibkWHy6VBzooEhgl&id=100064660843959&mibextid=Nif5oz


1:00 PM - EMB MIMAROPA Sampling Team have started the collection of water samples from the identified sampling stations.

1:56PM – During the Inter-Agency Meeting, this Office requested a copy of the submitted Safety Data Sheet on the Intermediate Fuel Oil from the PCG.

2:00PM – As reported by the Philippine Coast Guard via their Official Facebook Page, MTUG Titan commenced mechanical recovery of spilt oil in the vicinity waters off Naujan, Oriental Mindoro. On board are members of PCG, MEPU, EMB MIMAROPA, and Malayan Towage and Salvage Corporation (contracted by RDS Reield Marine Services Inc. For oil spill reponse operation).

Source: <https://fb.watch/i NAiie6Dt/>

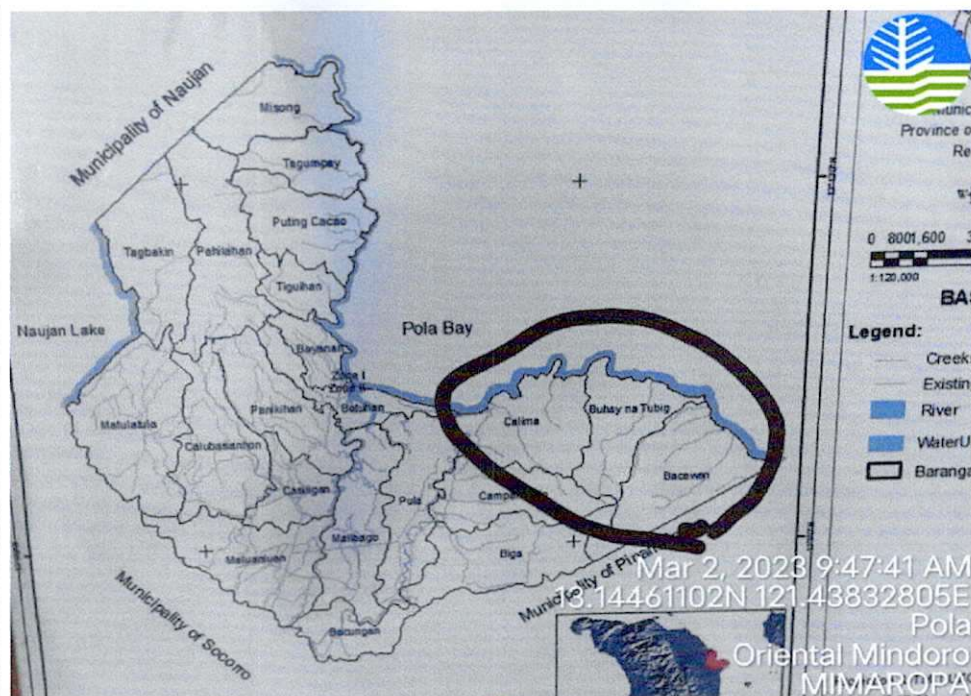


	<p>2:57PM – Sampling Team finished sampling activities at all 11 Stations in Naujan. As of today, the team observed no traces of the oil spill/oil sheen were seen in all 11 stations.</p> <p>3:00PM – The Philippine Coast Guard, via their Official Facebook Page, confirmed the presence and possible source of the oil spill (black and thick with strong odor) at the vicinity waters 7.4 nautical miles southwest off Balingawan Port, Naujan, Oriental Mindoro. MTUG Titan started spraying oil dispersants in the area. At 3:27PM, BRP Melchora Aquino (MTTV-9702) launched its rigid hull inflatable boat (RHIB) to gather water samples. The Marine Environmental Protection Unit has observed a black and thick oil on the collected water samples.</p> <p><i>Source: https://m.facebook.com/story.php?story_fbid=pfbid09th1ixERvwMsUHiho8r3j7TmemRPGULvaNFbHPJQEAYsy7Je78VWx6MDYXGgqZcWl&id=100064660843959&mibextid=Nif5oz</i></p> <p>4:34PM – Collected water samples from 11 Naujan Stations arrived in EMB MIMAROPA Calapan Laboratory for analysis.</p> <p>9:41PM – DENR issued Statement No. 2: March 1, 2023 DENR FORMS “TASK FORCE NAUJAN OIL SPILL”, CRAFTS CONCRETE MEASURES TO PROTECT MARINE ECOSYSTEMS</p> <div style="text-align: center;">  <p>DENR FORMS “TASK FORCE NAUJAN OIL SPILL”, CRAFTS CONCRETE MEASURES TO PROTECT MARINE ECOSYSTEMS DENR Statement No. 2: March 1, 2023</p> <p>The Department of Environment and Natural Resources (DENR) has created Task Force Naujan Oil Spill after an emergency meeting convened between the Department, the Philippine Coast Guard, Oriental Mindoro Governor Bonz Dolor, and Naujan Mayor Henry Joel Teves. DENR Secretary Maria Antonia Yulo Loyzaga has designated Undersecretary and Chief of Staff Marilou Erni as Task Force Commander. Undersecretary Erni previously served as the corporate ground response coordinator during the Guimaras Oil Spill in 2006.</p> <p>Other members of the Task Force include Undersecretary Jonas Leones, Undersecretary Juan Miguel Cuna, Assistant Secretary and concurrent Environmental Management Bureau (EMB) Director Gilbert Gonzales, Assistant Secretary and concurrent Biodiversity Management Bureau (BMB) Director Marcial Amaro Jr., Regional Executive Director Lomelyn Claudio, and representatives from the local government units: Provincial Environment and Natural Resources (PENR) Officer Alma Gibe and City Environment and Natural Resources (CENR) Officer Rodel Boyles.</p> <p>The Philippine Coast Guard (PCG), particularly its Marine Environmental Protection Command, is the lead agency tasked with response operations in the affected area. PCG confirmed that the MT Princess Empress, which carries 800,000 liters of industrialized fuel oil, has already submerged. With known coordinates, PCG will install spill booms to protect the locally-managed marine protected areas. The Task Force, in cooperation with PCG and the Philippine Air Force, will conduct an aerial surveillance in the coming days to further assess the situation.</p> <p>As of writing, the oil spill has reached an area six kilometers long and four kilometers wide. DENR-EMB carried out water sampling in three municipalities: Naujan, Pola, and Pinamalayan. A DENR-BMB report states that on a maximum of 40-kilometer radius from 5NM East of Balingawan Port, 21 locally-managed marine protected areas (LMMPAs) can be potentially affected due to oil spillage. It has mapped potential risk areas including seagrass beds, mangroves, and dispersion pathways for spawned fish larvae.</p> <p>The Secretary expressed the DENR's full support and assistance to Governor Dolor, Mayor Teves, and the other local governments affected. It has coordinated with experts in the private sector to immediately address the emergency situation and create a mid to long-term risk management strategy for the affected areas. ###</p> </div>
02 March 2023	<p>5:48AM – EMS II Adz Hazen M. Dimapilis boarded PCG tugboat to the oil spill site. Three different teams were also formed for the conduct of sampling activities in Naujan, Pola, and Pinamalayan. The Naujan sampling team however is on standby due to strong winds/wave. Sampling was also conducted along the shoreline and mangrove area.</p>



9:00AM – As of 9:00AM, oil spill was sighted. Wind direction is toward Pola shore.

9:17AM – Per PDRRMPO, there was sighting of oil in Bakawan, Pola. One of the teams already proceeded for sampling. Local DRRMO John F. Genabe shared that three barangays (Calima, Buhay na Tubig, and Bacawan) in Pola are confirmed to be affected by the oil spill and showed presence of a black sticky substance which have reached the shore area. Said areas have previously been declared as Marine Protected Areas (MPA)



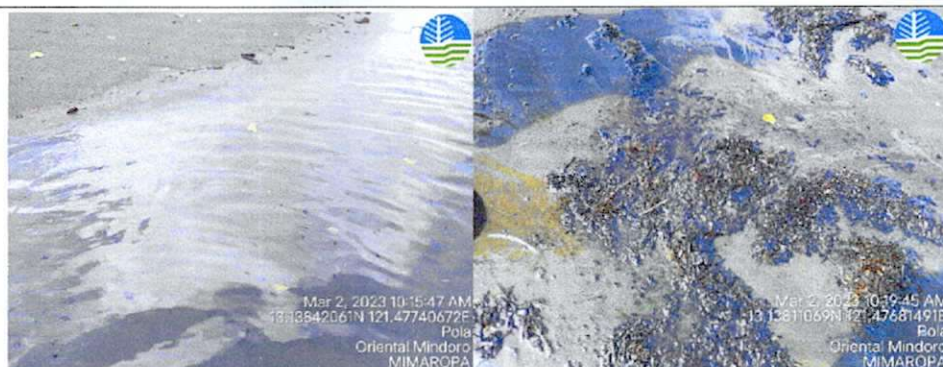
10:20AM – EMB team, together with some personnel of LGU Pola, conducted an ocular inspection and water sampling at Calima Proper. Inspection revealed that the oil spill reached the shore area, and the oil film stretches towards the mangrove area brought about by the strong winds.



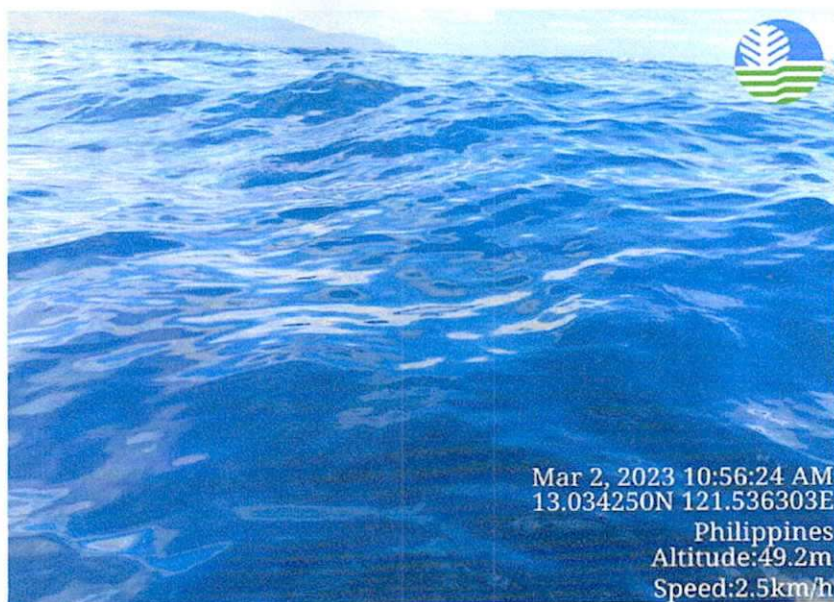
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PENRO Compound, Brgy. Suqui, Calapan City, Oriental Mindoro
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Environmental Management and Enforcement Division: (02) 8633 2587; Clearance and Permitting Division: (02) 8633 2587
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10:39AM – EMB team deployed to Pinamalayan area shared information from Bantay Dagat that the oil spill reached Pinamalayan. Said team then proceeded to Pinamalayan and observed oil film in Lumangbayan area.



10:47AM – EMB Naujan sampling team started their water sampling. Six water samples were collected out of 11 sampling stations. Strong winds and waves hindered the team from collecting samples in all 11 stations.

10:48AM – The team deployed to Pola area conducted another water sampling at Polacay Beach. No oil film has been observed near the shoreline. However, residents reported a strong odor similar to the smell of fuel near the shore.

11:20AM – Pola team was informed that an emergency meeting composed of all barangay captains of the affected areas, MDRRMO, MENRO, other LGU units, and the Office of the Municipal Mayor will be conducted at 01:00 PM. PEMU-Oriental Mindoro personnel were also invited to attend the meeting to hear updates on the status of coastal areas within their vicinity.

11:40AM – Pinamalayan team captures photos of sacks covered with traces of black wastes from the oil spill collected by Bantay Dagat.





11:55 AM – The Philippine Coast Guard, via their Official Facebook Page, announced that they have observed oil spill stranding along the shoreline of Barangay Buhay na Tubig, Pola, Oriental Mindoro. MEPU, LGU, stakeholders have been informed to proceed to the area for shoreline clean-up.

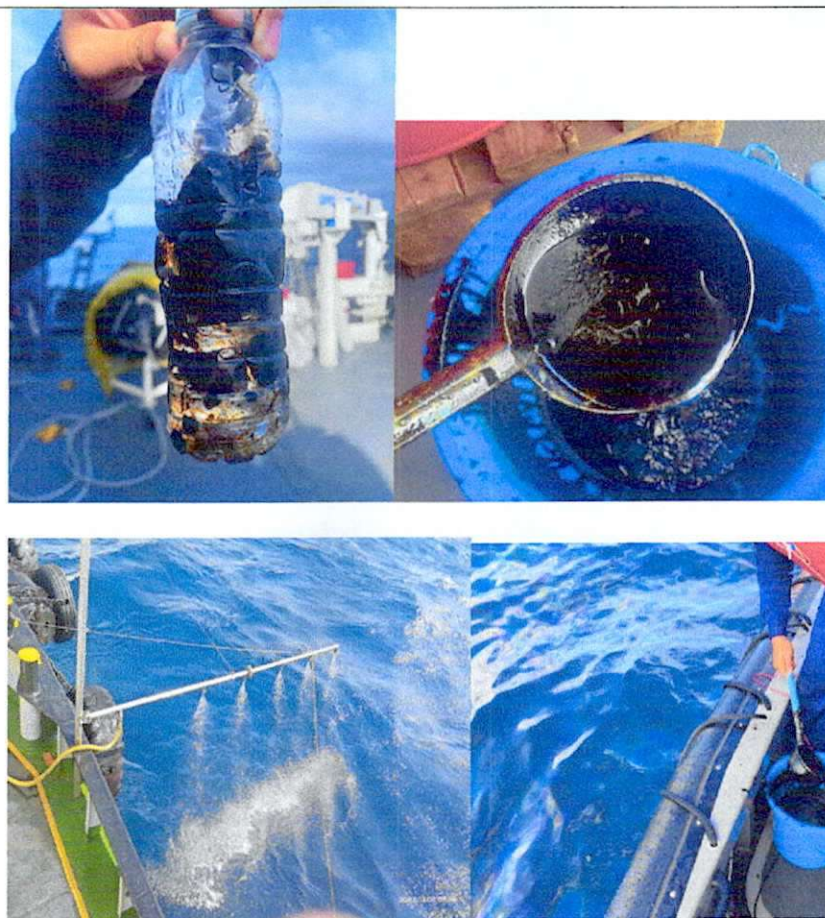
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12:00NN – An incident of fish kill was reported in Pola and clean-up activities at Calima is ongoing.



1:00PM – The Philippine Coast Guard, via their Official Facebook Page, confirmed the presence of industrial fuel oil (cargo) mixed in the spilt diesel fuel from MT Princess Empress. MTUG Titan is continuously applying dispersant. Patches of emulsified oil was observed during shoreline assessment. Per Bantay Dagat, the same has reach Sibale Island (more or less 1 ha.)





5:00PM – The DENR Secretary, through the official social media platforms of the Department, issued an official statement confirming that the oil spill has reached the municipal waters of Pola, Pinamalayan, Gloria, and Bongabong, Oriental Mindoro and appears to be flowing towards the southern portion of Oriental Mindoro.

According to the Department's Strategic Action Plan, the following measures are being taken to address the impact of the oil spill:

1. Collection of water samples in twelve (12) sites as of March 01, 2023;
2. Focusing on clean-up operations;
3. Marine and offshore response actions have been undertaken by the Philippine Coast Guard and Bureau Fisheries and Aquatic Resources;
4. Certified dive teams have also been deployed for the rapid assessment of marine and coastal habitats;
5. Possible contamination which might affect the viability of the systems;
6. Deployment of the underwater remotely operated vehicle to assess potential impact;
7. Launch drones to monitor progress of oil spill;

Furthermore, the Secretary also emphasized that the Department is focused on determining the extent of the impact, containing the spread of the oil spill and hasten the clean-up operations to prevent further impact on marine biodiversity especially on the livelihood of the local communities.



9:00PM – A meeting was called via zoom and attended by the DENR Secretary, other government agencies concerned, and some experts to discuss the issues, specifically on what measures should be taken to address the oil spill and to prevent further environmental damage. Among the data that should be gathered are as follows:

1. To find out what kind of dispersant was applied and the effects that it may have on the receiving waterbody and environment.
2. To find out If the oil from the vessel and its cargo is continuously releasing fresh fuel/oil.
3. How to address the containment and removal of the pollutant, vessel, and its cargo.
4. Need to know the extent of coverage of the oil and slick.
5. Identify areas with reefs, mangroves, and grass beds that may be affected and to find plausible ways to protect the sensitive areas.
6. We should also look at possible effects to the air quality since the vessel is a bunker.

It was mentioned that the oil spill has reached the municipal shores of Pola, Pinamalayan, Gloria, and Bongabong. The team had difficulties reaching ground zero on Day 1 due to the weather and due to the strong wind and waves, the dispersal of the oil was too fast. Thus, use of tar balls may no longer be effective.

About utilizing dispersants and incineration, dispersants can only be used within the first 24 hours, otherwise the effect will be limited since the oil is no longer dispersible being too thick. While incineration must only be done in open sea and is not advisable since it may result in residues contributing to (TAH?) which is hazardous to organisms.

The DENR Secretary instructed DENR to focus and hasten the coastal clean-up activities while also actively looking for solutions. The PCG and BFAR will handle the offshore and marine response actions.

10:00PM - the Regional Environmental Laboratory of EMB – MIMAROPA Region has released the Result of Analysis based on the water samples collected from the established sampling stations in Naujan, Oriental Mindoro and ground zero (oil spillage area) on 01 March 2023. The water samples collected from ground zero and seven (7) sampling stations namely: Estrella, San Jose 1, San Jose Proper, Pitugo Beach, Papangkil Beach, Montemayor Proper, and Tujod Fish Sanctuary, shows that the water quality greatly exceeded the parameters for Oil and Grease as required under DENR Administrative Order No. 2016-08.



Date sampled: 01 March 2023

Station Name	RESULT OF ANALYSIS (for Oil and Grease)	DENR WQG (mg/L) For Class SB	REMARKS
Estrella Beach	2	2	Passed
Estrella	13	2	Exceed
Santa Cruz	<1	2	Passed
San Jose 1	11	2	Exceed
San Jose Proper (Antipolo)	21	2	Exceed
Pitugo Beach (Melgar A)	7	2	Exceed
Papangkil Beach (Melgar B)	9	2	Exceed

**in the absence of official classification, Class SB was used for the determination of its most beneficial usage*

Date sampled: 01 March 2023

Station Name	RESULT OF ANALYSIS	DENR WQG (mg/L) For Class SA*	REMARKS
Buloc Buloc (Montemayor Cove) Fish Sanctuary	<1	1	Passed
Montemayor Proper	2	1	Exceed
Masaguig (MPA)	<1	1	Passed
Tujod Fish Sanctuary (MPA)	15	1	Exceed

**in the absence of official classification, Class SA was used for the determination of its most beneficial usage*

Date sampled: 01 March 2023

Station Name	RESULT OF ANALYSIS	DENR WQG (mg/L) For Class SD*	REMARKS
Ground Zero	36	5	Exceed

**in the absence of official classification, Class SD was used for the determination of its most beneficial usage*

03 March 2023

EMB MIMAROPA RD Joe Amil M. Salino, together with DENR Secretary Yulo – Loyzaga, and Assistant Secretary Gilbert G. Gonzales, Director, Environmental Management Bureau, in concurrent capacity as OIC Assistant Secretary for Field Operations for Luzon and Visayas, visited Calapan City, Naujan, and Pola, Oriental Mindoro during which aerial assessment, coordination with local government units was conducted to assess the current situation of the oil spill in the province.





Personnel from EMB – MIMAROPA Regional Office and Environmental Management Services – **Marinduque** are conducting water quality sampling in the following locations to validate the potential impact of the oil spill within the province of Marinduque:



SAMPLING LOCATIONS	MUNICIPALITIES	COORDINATES	
1. Baltazar Island	Gas	13.227359	12
2. Melchor Island	Gas	13.235519	12
3. Gaspar Island	Gas	13.246122	12
4. Libtangan	Gas	13.33936	121
5. Dili	Gas	13.327616	12
6. Banot	Gas	13.308042	12
7. Bacong-Bacong	Gas	13.280517	12
8. Uno	Buenavista	13.245588	12
9. Yook Elementary School	Buenavista	13.222284	12
9. Binunga Elementary School	Buenavista	13.214656	12
10. Binunga	Buenavista	13.204542	12
11. Bellaroca Island	Buenavista	13.185814	12



In addition, personnel from the Provincial Environmental Management Unit (PEMU) – Oriental Mindoro are currently conducting water quality sampling in the following fish sanctuaries in Pinamalayan, Oriental Mindoro namely: Simborio Fish Sanctuary, Ginapangan Fish Sanctuary and Pili Fish Sanctuary.

Other sampling teams from PEMU – Oriental Mindoro are simultaneously conducting continuous water quality sampling in Pola, Roxas, and Bongabong, Oriental Mindoro.

EMB MIMAROPA Regional Director Joe Amil M. Salino, together with other personnel of EMB MIMAROPA Region, conducted ocular inspection of coastal barangays affected by the oil spill in Pola, Oriental Mindoro. Also present during the visit are Provincial Environment and Natural Resources Officer-Oriental Mindoro Alan L. Valle, Community Environment and Natural Resources Officer-Socorro Rodel M. Boyles, personnel of PENRO-Oriental Mindoro, representatives from CENRO-Socorro, and local government personnel of Pola. Said inspection was conducted to assess the extent of environmental damage caused by the oil spill from the sunken oil tanker at Balingawan Point in the municipal waters of Naujan, Oriental Mindoro. Said oil spill reached the shorelines of nine coastal barangays of Pola including Misong, Tagumpay, Puting Cacao, Tiguihan, Bayanan, Batuhan, Calima, Buhay na Tubig, and Bacawan.

Efforts to clean up the affected areas started earlier today and were participated by DENR personnel, LGU-Pola, private firms, and residents.

RD Joe Amil M. Salino also paid courtesy visit to Pola Municipal Mayor Hon. Jennifer M. Cruz wherein discussion of additional measures to address and prevent further contamination of waterbodies in the municipality of Pola and other coastal areas in the province of Oriental Mindoro were discussed.

RD Joe Amil M. Salino assured LGU-Pola of the technical assistance that will be continuously provided by EMB MIMAROPA Region in the duration of the oil spill crisis.





10:00AM - A Zoom Meeting was convened by the Office of Civil Defense (OCD) – MIMAROPA Region headed by OCD Assistant Secretary Bernardo Alejandro IV and was participated by various government agencies. During the meeting, Asec. Alejandro directed the deployment of additional manpower from civilian law enforcement agencies to provide assistance. Meanwhile, the Philippine Coast Guard (PCG) was directed to aid in the containment of the oil spill, coastal clean-up and recovery of the vessel. Representatives from the PCG also provided an update stating that earlier today, CG Admiral Artemio M. Abu, Commandant, PCG, has conducted an aerial surveillance of areas affected by the oil spill and that their Office has already augmented two (2) vessels in the operations.

According to the representative of the Marine Environmental Protection Unit, the water samples collected are still under laboratory analysis to confirm whether the oil spill already includes Industrial Fuel Oil.

Representatives from the Department of Social Welfare and Development (DSWD) – MIMAROPA Region also requested for augmentation and has requested the concerned local government units for the list of affected fisherfolks.


DENR Usec. Marilou Erni, Task Force Commander, Task Force Naujan Oil Spill also provided updates on the actions being taken by the Department. She raised that the Department is currently assessing the potential damage to established protected areas in Oriental Mindoro as the oil spill will have a direct effect on the livelihood and food security in addition to the continuous water quality sampling being conducted in areas affected by the oil spill. Further stated was that the Department is currently linking with the private sector for the augmentation of equipment and spill boom and that formal teams have been established in both DENR Central and Regional Offices.

The Oriental Mindoro Provincial Risk Reduction Management Office (PDRRMO) also provided an update. The PDRRMO representative raised the challenges of locating the exact location of the vessel due to strong current of waves and bad weather. Currently, their Office has mobilized local communities for resources to help in the containment of the oil spill and remains in constant coordination with the vessel owner for assistance and commitment in addressing the issues relative to the oil spill incident.



Total Number of Affected Household, Mangrove Forest, Marine Protected Areas and Beach Resort of Coastal Barangays of Pola, Oriental Mindoro related to Oil Spill Incident on February 28, 2023

Barangay	Household	Mangrove Forest	Marine Protected Areas	Beach Resort
Tigukan	253	132,888 hectares over all	King-Liner Marine Reserve	
Puting Cacao	272		25 hectares	
Alimang	858		St. John the Baptist Marine Protected Area	
Calina	277		88.40 hectares	Becky Beach
Zamkath	254		Long of the Sea-Fish Sanctuary	
Zone 1	117		85 hectares	3 Cottages
Zone 2	157		San Jose Marine Fish Sanctuary	
Bayaman	700		80.12 hectares	Long Beach A-1
Burawan	806			
Tagumpay	354		Burawan Fish Sanctuary	Agosida Beach Resort
Buhay Na Tubig	214		12.18 hectares	Ortuno Beach Resort
			St. Peter the Rock Fish Sanctuary	Mounting Bahangin
			66.40 hectares	Tagumpay Beach Resort
			San Isidro Lake side Fish Sanctuary	Buhay Na Tubig senior Beach
			42 hectares	
TOTAL	4,259	132,888	456.62 hectares	

Prepared By:

 J. M. M. M. M.

12:45 PM - This Office received from the LGU – Pola DRRM a list of the total number of affected households, mangrove forests, Marine Protected Areas and Beach Resorts within the coastal barangays of Pola, Oriental Mindoro as of 28 February 2023.

1:00 PM - The PCG, through their official social media platforms, has reported that during the conduct of aerial surveillance, they have observed an oil spillage spanning two to three kilometers long, along the coast of Naujan, Oriental Mindoro.

Also, according to various media outlets, Mayor Jennifer Cruz of Pola, Oriental Mindoro has declared a state of calamity in the municipality due to the massive effect of the oil spill from the sunken MT Princess Empress.

2:00PM - Petron Philippines issued a statement wherein it has clarified that the 800,0000 liters of industrial fuel oil carried by MT Princess Empress was not sourced from the Petron Bataan Refinery nor does the company own the fuel oil cargo carried by the vessel. Petron adds that the company has stopped producing fuel oil since 2016.

Petron also announced that their Waterborne Industry Oil Spill Equipment (WISE) has already been deployed to assist in the containment of the oil spill. The WISE vessel reached the incident site at 3:20 AM of March 1, 2023 and is now in coordination with the Philippine Coast Guard.

Furthermore, Petron's Bataan Refinery and Mabini Terminal have also extended assistance by making their oil spill boom teams and equipment available to further aid in the containment and clearing operations.

5:16PM - RDC REIELD MARINE SERVICES (RDC), the registered owner of MT Princess Empress, issued a statement through various media



outlets. In their statement, RDC announced that they have already deployed technical experts on the ground, air, and sea to conduct an assessment of the affected areas and come up with an effective dispatch strategy for containing and mitigating the oil spill on the shoreline. RDC also stated that they have been assisting the PCG in procuring oil spill collection equipment, such as disposable PPEs, open-ended drums, gas masks, and diesel allocation, among others. RDC ensured the concerned local government units of their commitment in providing support despite limited resources and that the company will continue to work closely with the authorities and affected communities until the matter is fully resolved.

***Private firms join efforts to clean up Pola coast after oil spill**

Various private companies in the province of Oriental Mindoro volunteered to assist in cleaning up wastes from oil spill in the coastal barangays of Pola, Oriental Mindoro today, March 3.

Three private companies provided a total of 80 drums to be used as containers for the wastes collected during a series of cleanup activities in the Municipality of Pola, with 50 drums coming from the DMCI Power Corporation and 30 other drums from Power One Corporation.

DMCI and Power One Corporation also sent volunteers to help in the conduct of cleanup activity. Meanwhile, Ormin Power Incorporated assures provision of 10 additional drums for the continuation of cleanup activities in the affected barangays.



8:56 PM – An email/update from UP-MSI was received relative to major updates and development since last night's meeting held via Zoom.

- Sec. Toni and Dr. Siringan and team went to Mindoro to assess situation on the ground (images released via news)
- MSI released a [Bulletin](#)
- Mindoro now under State of Calamity
- DOE received samples for fingerprinting, NSRI in UP Diliman also offered to assist
- Alleged location of the vessel has been determined by PCG
- NAMRIA will go to Mindoro to determine the exact location of the vessel



- PhilSA released images this morning showing the extent of the slick
 - MSI developed a hydrodynamic model to determine the trajectory of slick, mainly going south of Mindoro, passing through Antique and will hit Coron
 - Presence of slicks reported in Caluya and Semirara in Antique around 4pm this afternoon but still being confirmed if the same or a separate incident.
 - If true, this is consistent with the model developed by MSI.
 - If this continues, the next big island to be hit is Coron based on the model.
 Dr. Villanoy re-running to confirm when the slick will arrive in Coron.
 Updated model will be available tonight around 10pm.

Action point:

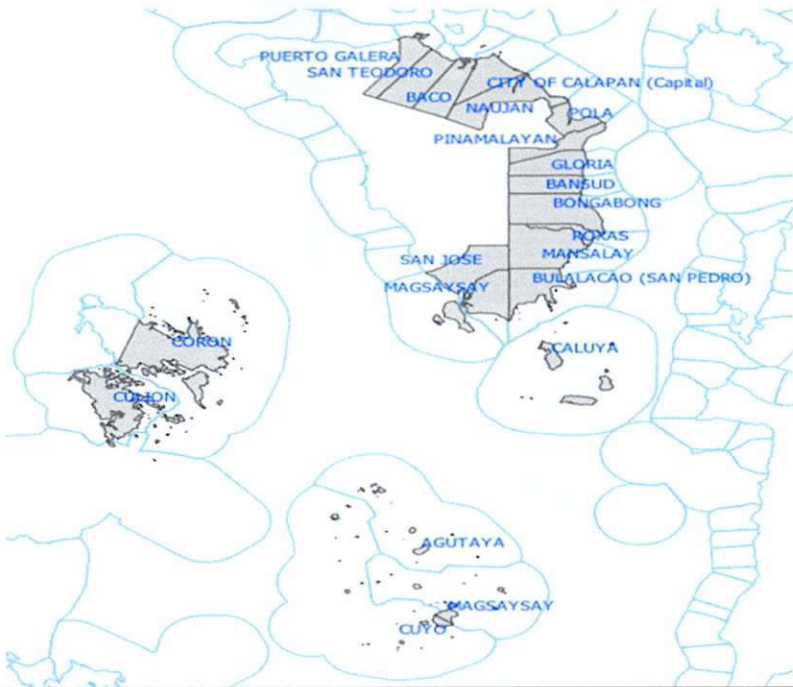
- Warn and inform Coron to prepare

As discussed during the emergency meeting last night, we have collated some information to:

- run hydrodynamic model
- release a bulletin

PROVINCE	MUNICIPALITY	CORAL (HA) 1	MANGROVE (HA) 2	SEA (HA)
Oriental Mindoro	San Teodoro	106.99	160.23	
Oriental Mindoro	Mansalay	286.02	53.53	
Oriental Mindoro	Calapan City	11.20	967.92	
Oriental Mindoro	Bulalacao (San Pedro)	1,128.21	199.24	
Oriental Mindoro	Baco	16.44	646.69	
Oriental Mindoro	Puerto Galera	316.86	43.81	
Oriental Mindoro	Pola	194.32	312.91	
Oriental Mindoro	Pinamalayan	42.37	45.40	
Oriental Mindoro	Naujan	44.86	456.24	
Oriental Mindoro	Bongabong	0.00	648.55	
Oriental Mindoro	Bansud	0.00	42.40	
Oriental Mindoro	Gloria	0.00	24.58	
Oriental Mindoro	Roxas	0.00	121.41	
Occidental Mindoro	Magsaysay	406.14	375.66	



	Occidental Mindoro	San Jose	1,891.37	410.07
	Palawan	Coron	1,102.97	2,264.01
	Palawan	Culion	630.08	2,505.21
	Palawan	Agutaya	2,557.81	0.00
	Palawan	Magsaysay	4,899.07	148.97
	Palawan	Cuyo	3,661.68	120.50
	Antique	Caluya	2,925.68	356.89
	Habitat hectarage from UP-MSI			
				
04 March 2023	<p>7:17AM – MSI issued Bulletin No. 02 which shows the models forecasting trajectory of slick. UP MSI scientists, with the concurrence of the DENR, are recommending warning coastal communities—especially those on the eastern and southern sides of Oriental Mindoro, Caluya Island (Northwestern Antique), and potentially Cuyo Island of Palawan—to prepare for the possibility that the oil spill could reach their shores.</p> <p><i>Aerial surveys by the DENR and UP MSI on the morning of March 3 (8-9AM) estimated the slick to be around 25 km long and between 300 to 500 m wide. It is roughly oriented northeast to southwest, with its tail end situated in Pola Bay. This was also confirmed by the satellite images released by the Philippine Space Agency (PhilSA).</i></p> <p><i>To help the communities and the agencies prepare, UP MSI oceanographer Dr. Cesar L. Villanoy and his team developed an oil spill trajectory model to forecast the track and the transport of the slick over the next four days (March 3-7, 2023) based on prevailing</i></p>			



weather patterns and conditions, and on recent information on the location of the slicks.

Three trajectory model runs were generated:

Scenario 1 (Run 1) considers possible transport northwards towards the Verde Island Passage (VIP), making Calapan and Puerto Galera as possible affected areas.

Scenario 2 (Run 2) considers the continuous release of oil from the alleged seepage location, showing that most of the slick will end up in Pola Bay.

Scenario 3 (Run 3) considers the continuous release of oil from the suspected seepage location but was also initialized with the latest information on the location of the observed slick. This model shows the oil slick being transported southwards, which has now been confirmed to have reached the coasts of Pinamalayan and Bongabong. It also shows that some of the slick may pass through Caluya Island (Northwestern Antique) and could eventually reach Cuyo Island in Sulu Sea. The model however, again, only shows potential trajectories in the next four days.

These models are now being used by the DENR to direct efforts on the ground. Images provided by PhilSA agree with the model (Scenario 3) about the movement of the slick. Though agencies looked at the feasibility of deploying booms to contain surface oil within its boundaries, both the experts and the PCG aired concern that the strong waves caused by the prevailing Amihan winds might render the oil booms ineffective at containing the spill.

The public and local governments along the projected routes are now being warned about the possibility of oil slick deposition in many coastal areas south of Mindoro. Aside from the ecological damage to these habitats, damage from the oil slick will also have an economic impact on livelihood and food sources. The public is encouraged to report any sighting of oil slick to authorities and adhere to public guidance to prevent its harmful effects. New model runs will be made available in the coming days.

**Description of Hydrodynamic Model: The model used is the General NOAA Operational Modeling Environment (GNOME) for predicting the fate and transport of pollutants, such as oil, spilled into the ocean. The model for the Mindoro spill uses surface velocity fields from the Real-Time Ocean Forecast System (RTOFS) and surface winds from the National Center for Environmental Prediction Global Forecast System. Spill location was specified based on visual reports by personnel on site. Forecasts for the next 6 days will be run every day as needed.*

9:19AM - The PCG, through their official social media accounts, has confirmed that the impact of the oil spill has reached the shorelines of Caluya, Antique. The PCG District Western Visayas conducts PRESS BRIEFING regarding "spilt oils" monitored in Caluya, Antique.



Specifically, oil slicks were found in the following barangays of Caluya, Antique, to wit:

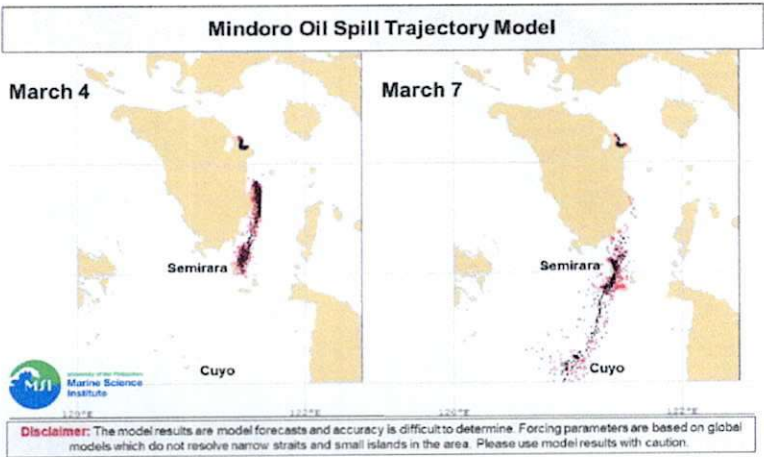
- 1. Sitio Sabang, Brgy. Tinogboc (1 kilometer);
- 2. Liwagao Island, Brgy. Sibolo (2 kilometers);
- 3. Sitio Tambak, Brgy. Semirara (2 kilometers)



9:30AM – EMB MIMAROPA is continuously conducting water quality sampling activities in certain locations within Oriental Mindoro, Romblon, and Marinduque. Coordination with the respective LGUs, other concerned agencies, and stakeholders are likewise being made.

9:54AM – UP-MSI Shared via group email the Mindoro oil spill trajectory model for March 04-07, 2023. The model (Scenario 3) considers the continuous release of oil from the suspected seepage location but was also initialized with the latest information on the location of the observed slick. This model shows the oil slick being transported southwards, which has now been confirmed to have reached the coasts of Pinamalayan and Bongabong. It also shows that some of the slick may pass through Caluya Island (Northwestern Antique) and could eventually reach Cuyo Island in Sulu Sea.

Disclaimer: The model results are model forecasts and accuracy is difficult to determine. Forcing parameters are based on global models which do not resolve narrow straits and small islands in the area. Please use model results with caution.



10:21AM – This Office captured photos of the raw materials to be used in the production of improvised spill booms that will be installed to prevent further intrusion of slick in the municipal waters of Pola, Oriental Mindoro. Traces of tar on the shore of Calima Beach in Pola, Oriental Mindoro was also observed.



10:21AM – The **Marinduque** Sampling Team is now on their way with the samples gather to Optimal Laboratories, who volunteered to help in the analysis.

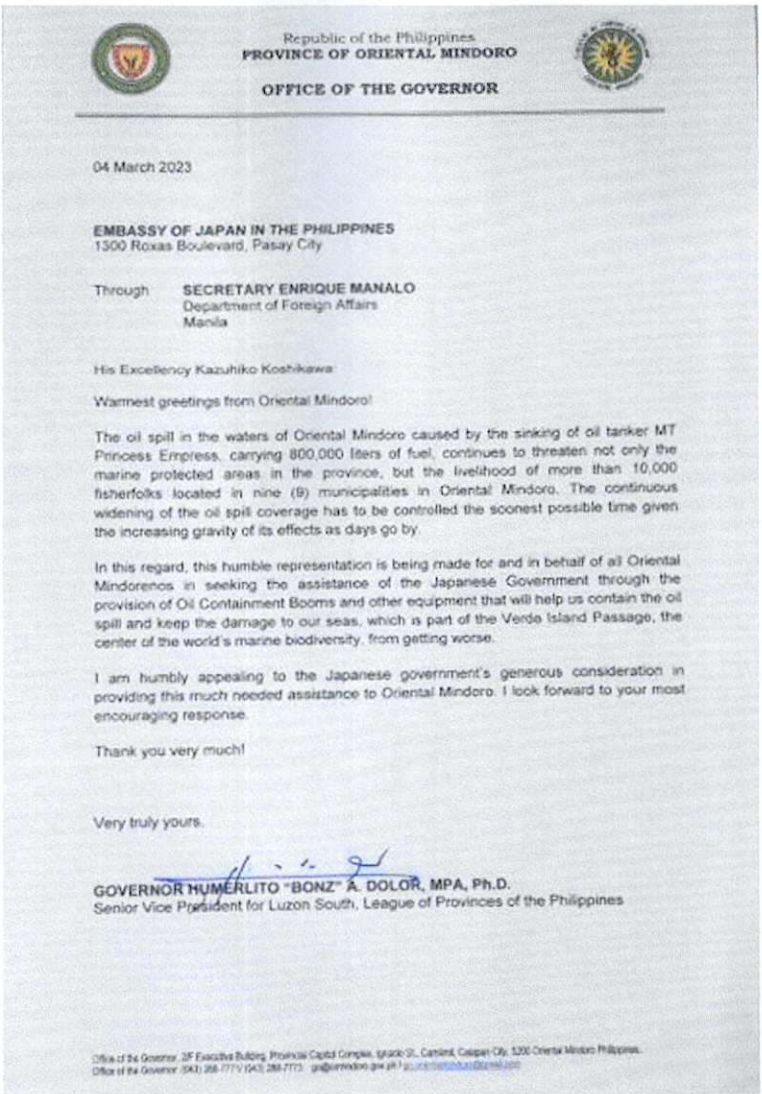
10:30AM – ABS-CBN News reported that the Provincial Health Office of Oriental Mindoro suspended the clean-up activities due to lack of protective gears.



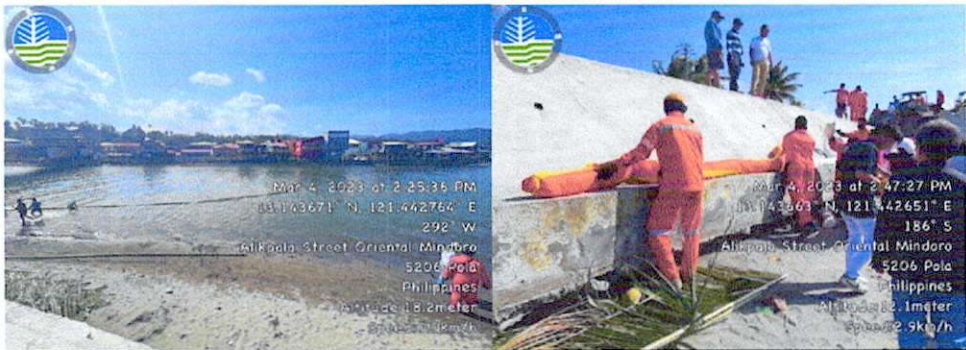
Gov. Humerlito Dolor from the Province of Oriental Mindoro sent a letter addressed to the Embassy of Japan in the Philippines through



Secretary Enrique Manalo, DFA, requesting for the assistance of the Japanese Government through the provision of Oil Containment Booms and other equipment.



2:30PM – This Office documented the ongoing installation of improvised spill boom in the municipal waters of Pola, Oriental Mindoro.



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3:00PM - The Philippine Coast Guard, via their Official Facebook Page, reported that eight (8) drums of oily waste has been collected in coordination with the LGU at Sitio Sabang, Brgy. Tinogboc, Caluya, Antique. Clean-up activities was thereafter suspended to ensure the safety of the response team.



PCG also reported that personnel is also monitoring the situation in Boracay Island.

Source:

<https://www.facebook.com/CGDWVV/posts/pfbid0oakVdnYCpuetQVwuh149tEQonXTMn3AE6eIXcQWRMwyVYyAyfdiP6jzqxnyPIYqYvl>

11:30PM – UP MSI posted Bulletin #03 Over 36,000 ha of coral reefs, mangroves, and seagrass may possibly be affected by the oil slick.

Using the modeled oil spill trajectories and looking at higher resolution data, we approximate that 20,000 ha of coral reef, 9,900 ha of mangroves and 6,000 ha of seagrass may be affected by the oil slick in the following municipalities (see table and map in image). More than half of potentially affected reefs (11,000 ha) are found in the Cuyo group of islands.



Over 36,000 hectares of coral reefs, mangroves, and seagrass possibly affected by oil slick



SOURCES OF HABITAT EXTENTS

Coral: Malco World Habitat data as of 2016-2017
Mangrove: Based on the Mangrove Watchdog Index (Baldry, et al., 2020)
Seagrass: Allen Corp. Atlas Benthic Map Creation: Allen Coral Atlas (2020)
 Imagery, maps and monitoring of the world's tropical coral reefs.
doi.org/10.25917/mindoro.39.10242

PROVINCE	MUNICIPALITY	CORAL (ha)	MANGROVE (ha)	SEAGRASS (ha)
Oriental Mindoro	San Teodoro	106.99	160.23	0.00
	Mansalay	286.02	53.53	120.56
	Calapan City	11.20	967.92	1.78
	Bulatac (San Pedro)	1,128.21	199.24	402.20
	Baco	16.44	646.69	1.30
	Puerto Galera	316.86	43.81	70.28
	Pola	194.32	312.91	116.86
	Pinamalayan	42.37	45.40	12.43
	Naujan	44.86	456.24	12.13
	Bongabong	0.00	648.55	25.56
	Bansud	0.00	42.40	14.08
	Gloria	0.00	24.58	3.26
	Roxas	0.00	121.41	5.34
	Occidental Mindoro	Magsaysay	406.14	375.66
San Jose	1,891.37	410.07	312.59	
Palawan	Coron	1,102.97	2,264.01	1,849.41
	Culion	630.08	2,505.21	1,461.34
	Aguilaya	2,557.81	0.00	73.52
	Magsaysay	4,899.07	148.97	514.67
Antique	Cuyo	3,661.68	120.50	156.71
	Caluya	2,925.68	356.89	858.67

05 March 2023

1:37AM –The DENR-EMB MIMAROPA continues its cleanup operations using locally available oil-absorbent materials. EMB is currently installing provisional spill booms made of cogon and sawali. These barriers are precautionary measures to prevent the oil spill from reaching the beach and mangrove areas of Pola, Oriental Mindoro. The DENR Biodiversity Management Bureau (BMB) will also conduct a concurrent site assessment of 53 hectares of mangroves in the area.

Members of the DENR Task Force MT Princess Empress, including Task Force Commander Undersecretary Malu Erni and Undersecretary Jonas Leones, will be on site in Calapan, Oriental Mindoro on March 5 to develop a localized plan of action in cooperation with local government officials and other responders.

Complete Bulletin No. 01 : <https://tinyurl.com/DENRBulletin01>

10:15AM – Optimal Laboratories Inc. arrived in Oriental Mindoro to conduct ambient air sampling. Optimal Lab will be joined by personnel from PEMU Oriental Mindoro.





9:00AM - DENR Chief of Staff Marilou G. Erni and Usec. Jonas Leones arrived at the Provincial Environment and Natural Resources Office (PENRO)-Oriental Mindoro in Suqui, Calapan City to conduct site assessment and craft a localized plan of action for the area.. Said DENR officials are being assisted by DENR MIMAROPA Regional Executive Director Lormelyn Claudio, EMB MIMAROPA Regional Director Joe Amil Salino, PENRO Alan Valle, PEMU-Oriental Mindoro Chief Ederlita U. Labre, CENRO-Socorro Rodel M. Boyles, and other DENR and EMB personnel.



9:20AM - EMB MIMAROPA field personnel captures photos of improvised spill booms in Pola, Oriental Mindoro. Said spill booms are installed to prevent the spread of slick into the municipal waters of Pola.



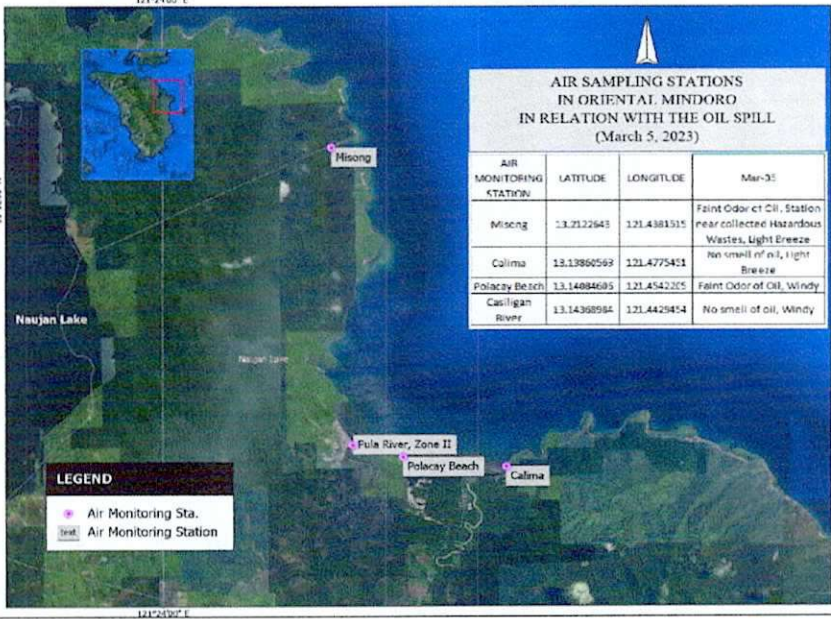
12:00PM - DENR Task Force Commander Undersecretary Marilou Erni and Undersecretary Jonas Leones, DOH Officer-in-Charge Dr. Maria Rosario Singh-Vergeire, Oriental Mindoro Governor Humerlito "Bonz' Dolor and Pola Mayor Jennifer "Ina Alegre" Cruz



have a dialogue with the local community and media regarding the treatment, storage, and disposal of oil. They also shared initial actions being taken from the coherent and localized response plan of all agencies concerned to ensure the community's health and wellbeing.



3:46PM – EMB MIMAROPA together with Optimal Laboratories, Inc. proceeded to conduct ambient air samplings at Barangays Misong, Pola, Calima, and Polacay Beach, Pula River Zone II



Equipment Type: Trigas Meter
 Sampling Date: 05-Mar-23
 Parameters: SO2 and NO2

	Sampling Stations			
	1	2	3	4
	Misong	Calima	Polacay Beach	Cashagan River
GPS Coordinates	10.3122043, 121.4381515	13.13860563, 121.47754307	13.14084606, 121.45422053	13.14368964, 121.44294537
Time Started	1:48:00 PM	4:11:00 PM	5:35:00 PM	6:48:00 PM
Time Ended	2:58:00 PM	5:11:00 PM	6:35:00 PM	7:48:00 PM
Weather	Sunny	Sunny	Windy	Windy
Observations:	Faint odor of oil, Station is near collected hazardous wastes; light breeze	No smell of oil; light breeze	Faint odor of oil; Windy	No smell of oil; Windy



And Station 2 located at Calima, Pola, Oriental Mindoro.



R4B-2023-005026

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4:00PM - EMB MIMAROPA Regional Director Joe Amil M. Salino presents the latest situational report during a virtual meeting with DENR Secretary Ma Antonia Yulo-Loyzaga.



6:48PM – UP MSI’s Bulletin #04 show the latest oil spill trajectories. Model forecasts that spill will reach Cuyo Islands and get closer to northern Palawan in about a weeks time. The projected trajectory of the oil slick is shown in the images for March 7 and March 12, and initialized with spill locations in the image for March 5. The projected spill will continue due southwest to Cuyo group of islands (as seen in the image for March 7) and will get closer to northern Palawan mainland in about a week's time (as seen in the image for March 12).

The model does not account for dispersion, evaporation, emulsification, and degradation of the oil and assumes that the oil behaves like persistent buoyant particles. Forcing parameters are based on global models which do not resolve narrow straits and small islands in the area.



	<div data-bbox="451 176 1421 916"> <h3>MT Princess Empress Oil Spill Trajectory Model</h3> <div data-bbox="1274 221 1356 297"> </div> <div data-bbox="511 321 1356 725"> <div> <div>March 5</div> </div> <div> <div>March 7</div> </div> <div> <div>March 12</div> </div> </div> <div data-bbox="511 773 1356 892"> <p>DISCLAIMER</p> <p>The model results are model forecasts and accuracy is difficult to determine. The model does not account for dispersion, evaporation, emulsification, and degradation of the oil and assumes that the oil behaves like persistent buoyant particles. Forcing parameters are based on global models which do not resolve narrow straits and small islands in the area. Please use model results with caution.</p> </div> </div>
<p>06 March 2023</p>	<p>8:04AM - Coron sampling team and PCG are on their way to the 8 sampling stations to gather water samples.</p> <div data-bbox="451 1094 1421 1704"> </div>





9:04AM – The Philippine Coast Guard, via their official Facebook Page, reported that DOH conducted an onsite inspection and evaluation. DOH also distributed protective equipment to the response team and provided medical assistance, medicine, and emergency inhalation to the affected community.



Source:

<https://www.facebook.com/pcgovph/posts/pfbid06SBbWbEagbs3SLZhZUdrpFktwA2mP4cWm1dhnHA2C9KRvK7uq5xH1zx3Ms2oYbtjTl>

10:57AM – Initial report from Personnel from PEMU Palawan shows that they have coordinated with LGU Agutaya relative to reports of oil spill in the municipality. Five barangays in the municipality are also at risk. The Mayor of Agutaya instructed the Barangays to prepare improvised spill booms to contain possible contamination. LGU is having difficulty in transportation to the island barangays due to the GALE warning. This Office is preparing for the onsite inspection and sampling activities to be conducted in Agutaya Island to validate whether any of the islands have been affected by the oil spill.



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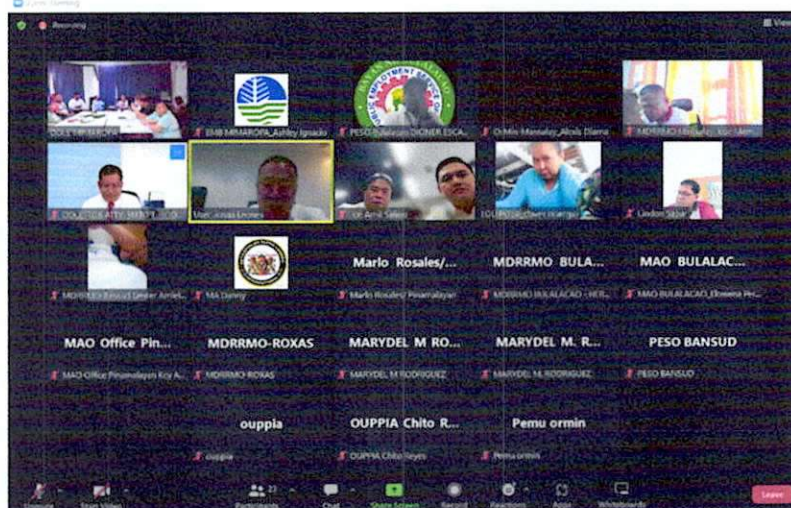
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11:00AM – EMB MIMAROPA attended a virtual meeting with Atty. Janice Regoso-Pammit, Chief, Legal Division and Concurrent Board Secretary, Pollution Adjudication Board (PAB), Atty. Arjunn Calvo from EMB R6 LU, Atty. Jed Edward Ang to discuss the oil spill and Notice of Violation that will be issued against the owner of MT Princess Empress.

It was agreed during the meeting that coordination with PCG is important to know what legal actions they have undertaken. Further, a meeting with EMB MIMAROPA, PAB, EMB CO, EMB R6, PCG, and DENR will be scheduled on March 7/8, 2023 to discuss and finalize the legal action that will be taken.

12:04PM – Coron Sampling team was able to conduct water quality sampling in certain locations within Coron, Palawan. Furthermore, an ongoing meeting is being conducted participated by the EMB MIMAROPA RD Joe Amil Salino together with Usec. Jonas Leones and personnel from the Department of Labor and Employment (DOLE) – MIMAROPA for the profiling of possible volunteers for cash to work program for fisherfolks affected by the oil spill



HAZWASTE



2:24PM – DENR Bulletin no. 05





**DENR STATEMENT ON THE MARITIME INCIDENT INVOLVING MT PRINCESS
EMPRESS**

DENR Statement No. 5: March 6, 2023

The DENR continues its interventions as we mobilized on February 28 which is Day 0 of the MT Princess Empress Oil Spill.

By March 1, we had already contacted Governor Bonz Dolor to coordinate with response teams in Oriental Mindoro and Manila. By March 2, we had already mobilized the National Mapping and Resource Information Authority (NAMRIA) BRP Hydrographer Ventura to determine the location of the sunken vessel.

The DENR has three parallel workstreams in response to the oil spill:

1. Disaster forensics in cooperation with NAMRIA as an attached agency of the DENR and the University of the Philippines-Marine Science Institute (UP-MSI), in support of the Philippine Coast Guard.
2. Clean up, mitigation, and remediation which involves a multi-agency effort including national government agencies such as DSWD, DOLE, DILG, and DOH because this involves the protection of communities and ecosystems.
3. Actual protection activities that we need to undertake. These habitats, ecosystems, and the communities themselves require anticipatory action, protection, and regeneration where possible. We are working with the local communities, UP-MSI, academe, and civil society.

These are the current developments:

As we mobilized the BRP Hydrographer Ventura on March 2, they prepared for the mission and prepared the vessel on March 3. By March 4, they had deployed to the site. Due to rough seas, they only arrived at the site early morning of March 5.



We are pleased to report that through the efforts of BRP Hydrographer Ventura, we may have detected the possible site where the vessel is actually located. That site is about 1,200 feet or approximately 400 meters below sea level. It is located about Northeast of Pola, Oriental Mindoro but it is believed to have moved Southeast from its last known position where it completely submerged. This will, however, require verification which will be in the form of deployment of a remotely-operated vehicle (ROV) which will allow us complete visualization should the currents and weather permit. We are now preparing to access an ROV in order to fully determine where the vessel actually is and to completely model the way the oil will be spilling from the vessel.

We reported this to the President immediately as soon as the analysis was released yesterday evening and we have been given approval to share this with the general public.

We are closely coordinating with local government officials and with UP-MSI on the possible use of this information in the modeling for the spread of the oil. We look forward to seeing an updated model from UP-MSI and to share that with the general public but most of all, with the local governments and the communities that will be affected.

The DENR continues to be in close touch with local communities through our CENROs and PENROs, and our operations teams that are on the ground now in Mindoro Oriental and Antique.

We have been closely coordinating with the different departments and we are grateful for the efforts of DSWD, DOLE, DOT, DCH, DA-BFAR, and DND-CCD. We look forward to continuing to support the efforts of the Philippine Coast Guard since they are the lead in this particular effort.

The DENR is here to assist in any way that we can. We have been receiving offers of service, goods, and technical expertise and we thank the private sector especially those that have recently come forward. Those that have offered support include the different energy companies, Shell, Prime Energy, and Petron, as well as First Gen, and the Ayala Group. We are very grateful to all those who have expressed their willingness to assist in this effort.

The DENR will continue to deliver updates as developments happen. ###

3:28PM – EMB MIMAROPA received a donation of KN95 70boxes (1000pc/box) from Filinvest. The donated masks will be distributed to the affected locations within the week.



3:36PM – As per report of PCG -PPC, in general, Palawan is still negative of oil spill though there are two barangays in Agutaya sighted with spots of oil spill approximately 1 liter.





4:57PM – The Sangguniang Panlalawigan approved a Resolution declaring State of Calamity in the 77 coastal barangays of Naujan, Pola, Pinamalayan, Gloria, Bansud, Bongabong, Roxas, Mansalay, at Bulalacao in the province of Oriental Mindoro due to oil spill.

07 March 2023

6:30AM – EMB MIMAROPA Sampling Teams started sampling activities for the day. Engr. Padirayon also reported of the wastes collected

March 7, 2023

Brgy Calima : 6 drums

Brgy Batohan: 4 drums

Brgy Misong: 11.5 drums



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10:15AM – Naujan Sampling Team conducted sampling activities at Brgy. Melgar A, Brgy. Melgar B, Brgy. San Jose 01, Brgy. San Jose So. Pitugo, Brgy. Sta. Cruz, Brgy. Estrella and turned over the collected water samples at Calapan Laboratory. The team observed that a spill boom was installed at Casiligan River Estuary.

10:30AM - EMB MIMAROPA received a donation of 5 boxes of absorbent pads from CBNC.



10:30AM – Maps were shared by Ms. Kathryn Tupasi reflecting all stations (air and water) and a narrative:

March 1, 2023: team proceeded to Ground Zero, the alleged oil spillage area with coordinates 13°18.924 N, 121°31.854E 11 kms from the coast of Brgy Estrella Naujan, MARKED AS RED STAR



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March 2, 2023: another team proceeded to another point near Ground Zero, Balingawan Point with coordinates 13.314983, 121.529231, MARKED AS **RED STAR** IN THE MAP.

March 1, 2023: sampling stations established at Tablas Strait, Shoreline of Naujan from Estrella, Sta Cruz, San Jose-Pitogo, San Jose-So. 1, San Jose Proper, Melgar A, Melgar B - coastal waters of Naujan Bay: the immediate shoreline near Ground Zero: Marked as **GREEN STARS** in the map

stations were also established at Buloc Buloc Fish Sanctuary, Montemayor MPA, Masaguing MPA, Tujod Fish Sanctuary all within the Naujan Bay.

Come March 3, 2023: Additional stations were added to cover POLA BAY with stations: Calima, Polacay, Central Tagumpay, Misong, Kwebang Tagumpay, Tuguihan

Stations were also added to cover Pinamalayan Bay: Lumang Bayan and the fish sanctuaries of Simborio, Ginapangan, Pili, and Ranzo

When oil slicks were observed down south: stations were added at Bongabong Bay: Aplaya, Poblacion, Anilao and Masaguisi.

For Roxas Bay: Dalahican, Dangay, Paclasan and San Isidro
When there were observed sightings in the river mouth of Pula River, stations were added: Pula River Estuary, Pula River Mangrove.

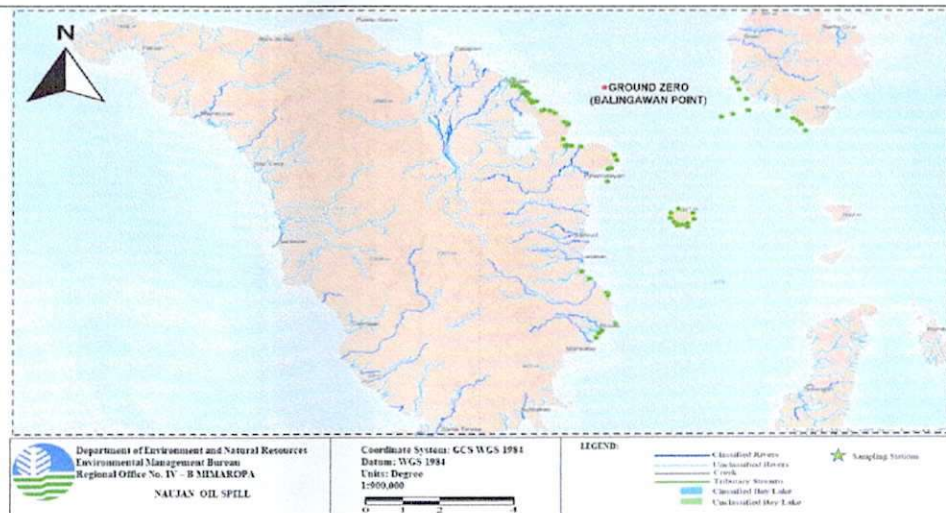
Stations and water samples were also collected in Marinduque: in GASAN, it covers Baltazar Island, Melchor Island, Gaspar Island, and brgys of Libtangin, Dili, Banot and Bacong Bacong.

For Buenavista in Marinduque, Brgys of Uno, Yook, Binunga and Bellaroca Island

Stations were also established in **Sibale Island in Concepcion, Romblon** but weather did not permit the water sample collection: nevertheless, stations are as follows: Guiob Beach, Bachawan, Maisuting Bay, Dalajican, Sampong, Cantaño Beach, Payuksohan Beach, Cambilog Beach, San Pedro, Tonggo Beach, Quebrada Beach and San Vicente

The live map is currently being updated to show the stations in Coron, Palawan which are as follows: Diwaran Island, Dimatuya Reef North, Dimatuya Reef South, Dibatang Island, Coron Island 1 / Banwang Daan, Coron Island 2 / Cabugao.

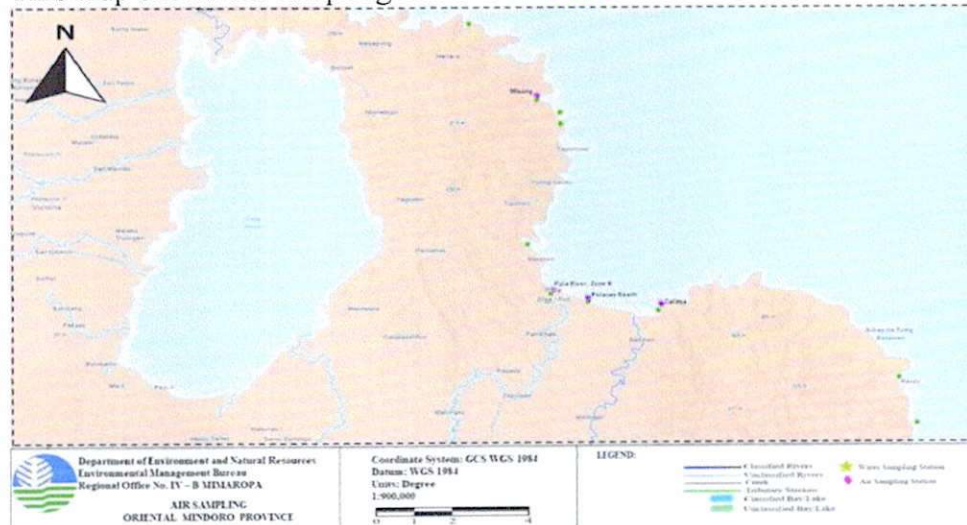




Live Map :

https://www.arcgis.com/apps/Embed/index.html?webmap=2f67536145674b24b2cc831b3493ae34&extent=121.1601%2C13.0675%2C121.8883%2C13.389&zoom=true&previewImage=false&scale=true&disable_scroll=true&theme=light&fbclid=IwAR2mAUAxqPvs0C9J2a8zaBdChhNEV86gqhs4q-T_vSCMAIQz9MzdymqsLEA

This map shows the sampling stations for **AIR**:



Per Engr Robert Co of Central Lab, Flame Ionization Detectors (FID)/Photo Ionization Detectors (PID) Analyzer is being prepared for Air Quality monitoring for Mindoro. Said detectors help in measuring the Volatile Organic Compounds and other gases.

11:00AM – Email from UP-MSI: Updates (as of 11AM, March 7)

“Based on the Press Release of DENR and shared here by Sec. Toni, the vessel has now been located but investigation is ongoing to determine the status of the tanker and seepage via ROVs.

There are no additional reports/sightings of oil slick from the initial list released by PCG yesterday.



PENRO Compound, Brgy. Suqui, Calapan City, Oriental Mindoro
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Website: www.mimaropa.emb.gov.ph



Karagatan Patrol made an interactive map showing spill sightings (http://karagatanpatrol.org/?fbclid=IwAR2OVmma1gw9LhWAO5b9V2khwapVP_YxL7zVqtHN9SjfMbzGCCdMMwSDJxg)

And also made a 'citizen science' app where they can report sightings (https://docs.google.com/forms/d/e/1FAIpQLSe75KJ3ANrT0yUiPevhubf2xMxJk_nTmtTvEr5aA7dL_nGuQ/viewform?fbclid=IwAR2303KJPIa_7c6Yy5fsmYCcezURZCTVgBnrqxR38u7PIGn9hKX76gJrMfU).

Cuyo residents as well as establishments reported to MSI that they are now preparing in anticipation of possible arrival of slicks.

UP MSI will release an updated list of affected or possibly affected areas/habitats this afternoon in its new Bulletin. “

The Sangguniang Panlalawigan of Oriental Mindoro has issued Resolution No. 6290-2023 declaring Seventy-Eight Coastal Barangays from Nine Municipalities (Naujan, Pola, Pinamalayan, Gloria, Bansud, Bongabong, Roxas, Mansalay, Bulalacao) in the Province of Oriental Mindoro affected by oil spill from MT Princess Empress under state of calamity.

The sinking of MT Princess Empress resulted to spillage of emulsified black and thick industrial oil which posed health hazards to residents of seventy-eight (78) coastal barangays from nine (9) municipalities in the province, severely disrupts the livelihood of more than fifteen thousand (15,000) fisher folks, resorts and other business establishments and caused serious damage to Marine Protected Areas in the province.

1:53PM – The PCG, via their Official Facebook Page, reported that they, together with residents of Sitio Sigayan, Barangay Semirara, Caluya, Antique, have collected 15 sacks of oily waste.



1:56PM – Pola Sampling Team turned over to Calapan Laboratoy the gather samples from Brgy. Misong, Central Tagumpay,



Taguihan, and Polacay Beach. Oil slick was observed at the shore of Polacay Beach.

4:00PM – The Sangguniang Panlalawigan of Oriental Mindoro issued Resolution No. 6290-2023 declaring 78 coastal barangays in 9 municipalities (Naujan, Pola, Pinamalayan, Gloria, Bansud, Bongabong, Roxas, Mansalay, Bulalacao) under state of calamity due to the oil spill that disrupted the livelihood of more than fifteen thousand (15,000) fisher folks, resorts and other business establishments and caused serious damage to Marine Protected Areas in the province.



Republic of the Philippines
PROVINCE OF ORIENTAL MINDORO
City of Calapan

SANGGUNIANG PANLALAWIGAN

CERTIFIED TRUE COPY
MAZEN D. CRUZADA

EXCERPT FROM THE JOURNAL OF THE 31st REGULAR SESSION OF THE 11th SANGGUNIANG PANLALAWIGAN OF ORIENTAL MINDORO HELD AT THE PEOPLE'S HALL, BATASANG PANLALAWIGAN (BENIGNO S. AQUINO, JR. LEGISLATIVE BUILDING), GOV. IGNACIO ST., BRGY. CAMU MIL, CITY OF CALAPAN, ORIENTAL MINDORO, ON MARCH 06, 2023

PRESENT:

Hon. Ejay L. Falcon
Hon. C. Voltaire S. Brucal
Hon. Rolando H. Ruga
Hon. Carlito F. Camo
Hon. Judy Ann D. Servando
Hon. Alexandra C. Casubuan
Hon. Jomarc Philip L. Dimapilis
Hon. Farrah Fay C. Ilano
Hon. Jean Paulo R. Umali
Hon. Edilberto C. Ilano, Jr.
Hon. Jocelyn U. Neria
Hon. Ronalee E. Leachon
Hon. Dennis V. Brondial
Hon. Joemina R. Aguilon
Hon. Ahop R. Agate

Vice Governor / Presiding Officer

Member
Member
Member
Member
Member
Member
Member
Member
Member
Member

PCL President, Ex-Officio Member
ABC President, Ex-Officio Member
SKPF President, Ex-Officio Member
IPMR, Ex-Officio Member

RESOLUTION NO. 6290-2023

RESOLUTION DECLARING THE SEVENTY-EIGHT (78) COASTAL BARANGAYS FROM NINE (9) MUNICIPALITIES (NAUJAN, POLA, PINAMALAYAN, GLORIA, BANSUD, BONGABONG, ROXAS, MANSALAY, BULALACAO) IN THE PROVINCE OF ORIENTAL MINDORO AFFECTED BY OIL SPILL FROM MT PRINCESS EMPRESS UNDER STATE OF CALAMITY

WHEREAS, Section 468 (1) (iv) of the Local Government Code of 1991 (R.A. 7160) mandates the Sangguniang Panlalawigan "to enact ordinances, approved resolutions and appropriate funds for the general welfare of the province such as but not limited to the "adoption of measures to protect the inhabitants of the province from the harmful effects of man-made and natural disasters and calamities, and to provide relief services and assistance for victims during and in the aftermath of said disasters and calamities and in their return to productive livelihood following said events;"

WHEREAS, Republic Act 10121, otherwise known as the Philippine Disaster Risk Reduction and Management Act of 2010, empowers the Sangguniang Panlalawigan, upon the recommendation of the Provincial Disaster Risk Reduction and Management Council, to declare a province under State of Calamity when two (2) or more of its municipalities/cities are affected by a disaster;

WHEREAS, on February 28, 2023, MT Princess Empress, an oil tanker containing approximately eight hundred thousand (800,000) liters of industrial oil, capsized off the waters of Naujan, Oriental Mindoro;

WHEREAS, the sinking of MT Princess Empress resulted to spillage of emulsified black and thick industrial oil which posed health hazards to residents of seventy-eight (78) coastal barangays from nine (9) municipalities in the province, severely disrupts the livelihood of more than fifteen thousand (15,000) fisher folks, resorts and other business establishments and caused serious damage to Marine Protected Areas in the province;



CERTIFIED TRUE COPY
MARLENE D. CRUZADO

Resolution No. 6798-2023

WHEREAS, the provision of immediate and relevant relief services and assistance is essential to avoid further harm to the physical, emotional and livelihood condition of all constituents who are deeply disheartened by the said occurrence;

WHEREAS, for the effective and timely provision of relief services and assistance, necessary amount from any available sources out of the Provincial Disaster Risk Reduction and Management Fund of the Provincial Government of Oriental Mindoro shall be allocated for this purpose, which shall be utilized primarily for the response and relief undertakings in severely affected areas;

WHEREAS, the aforementioned threat to the environment, health hazards, and disruption of livelihood warrant the declaration of State of calamity in areas of the province affected by the oil spill from MT Princess Empress;

WHEREAS, it is the mandate of the Provincial Government of Oriental Mindoro to safeguard and promote the well-being of all its inhabitants particularly in this hard trying times;

NOW THEREFORE, BE IT RESOLVED, AS IT IS HEREBY RESOLVED BY THE SANGGUNIAN PANLALAWIGAN OF ORIENTAL MINDORO, to place the seventy-eight (78) coastal barangays from nine (9) municipalities (Naujan, Pola, Pinamalayan, Gloria, Bansud, Bongabong, Roxas, Mansalay, Bulalacao) in the Province of Oriental Mindoro affected by oil spill from MT Princess Empress to protect their inhabitants and provide relief services and assistance to victims of the said oil spill that caused devastating damage to the environment and livelihood of the affected constituents last February 28, 2023.

Let copies of this resolution be furnished the National Disaster Risk Reduction and Management Council (NDRRMC), Regional Disaster Risk Reduction and Management Council (RDRRMC), and all concerned national/ local government agencies for information.

On motion of Board Member Rolando H. Rupa, seconded by all the Sangguniang Panlalawigan Members present, there being no objection, this Resolution was...
APPROVED.

Certified correct:

DIWATA H. JETIZANAN
Secretary to the
Sangguniang Panlalawigan

Attested by:

JAY L. FALCON
Vice Governor / Presiding Officer

6:14PM – EMB MIMAROPA Personnel is now on the way to Oriental Mindoro to deliver 26 boxes ng KN95 masks, 5 boxes of absorbing pad, and 300pcs hazwaste label and various supplies.




Also today, the Provincial Government of Oriental Mindoro together with various government agencies conducted a press briefing to update the members of the media of the latest status regarding the oil spill. During the press conference, the Philippine Coast Guard provided an update on the structure of organization pertaining to the clean-up operations, to wit:

1. Department of Health shall be in charge of placing health protocols;
2. Provincial Disaster Risk Reduction Management Office shall be in charge of logistics;
3. PCG-Marine Environmental Protection Unit
3.1 Harbor Star was contracted by the PCG to hire workers from the affected fisherfolks, based on the list provided by the local government units, who will assist in the clean-up operations;



	<p>3.2 Offshore – Malayan Offshore clean-up</p> <ol style="list-style-type: none"> 4. Municipal Agriculturist Office and Bureau of Fisheries and Aquatic Resources; 5. DENR will be in charge with the collection and disposal of toxic wastes and oil contaminated wastes. <p>Hon. Maria Antonia Yulo – Loyzaga, Secretary, Department of Environment and Natural Resources, was joined by Usec. Jonas Leones, Usec. Juan Miguel Cuna and DENR – MIMAROPA Regional Executive Director Lormelyn Claudio, in providing the updates on the actions being taken by the Department. Sec. Loyzaga stated that the Department are undertaking three (3) actions, specifically:</p> <ol style="list-style-type: none"> 1. Disaster Forensics is being conducted in partnership with the University of the Philippines – Marine Science Institute (UP – MSI) in making projection models of the locations where the oil spill will spread. <p>The Secretary highlighted the importance of Disaster Forensics stating that it can help in preventing the oil spill from reaching Marine Protected Areas (MPAs), beachlines, etc. and addressing the potential social impact to the communities.</p> <ol style="list-style-type: none"> 2. Coastal Clean-up specifically on disposal of oil-based wastes. The Secretary also emphasized that these wastes must be sealed and placed on a temporary storage. 3. Air and Water Quality Sampling <p>Moreover, during the press conference, Sec. Loyzaga also mentioned the use of organic and fibrous materials by the Environmental Management Bureau, such as coconut coirs as alternative oil absorbent materials and spill boom.</p> <p>Finally, the Secretary expressed that the Department is committed in containing and mitigating the oil spill and restore the livelihood of residents affected by the oil spill.</p> <p>Meanwhile, the Department of Health (DOH) has reported that they have recorded eighteen (18) oil spill related health incidents in Pola, Oriental Mindoro, mostly respiratory through inhalation. Likewise, they have already placed advisories and notices cautioning residents to move and cease from going 100 meters from the shoreline.</p> <p>Further, DOH also requested for the clean-up operations to be conducted immediately to minimize the exposure of residents affected by the oil spill due to the health hazards which it may pose.</p> <p>Gov. Dolor of the Province of Oriental Mindoro also announced during the press conference that the PLGU will be sharing to the media the official results on water quality everyday while the results of air quality will be released every three (3) days, after 5:00 PM.</p>
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	<p>*WASTES COLLECTED as reported by Engr. Padirayon:</p> <p>Brgy Calima : 6 drums Brgy Batuhan: 4 drums Brgy Misong: 11.5 drums</p>
<p>08 March 2023</p>	<p>Engr. Rochelle Padirayon, Chief, Toxic Chemicals and Hazardous Waste Monitoring Section, led the coordination meeting with PDRRMO Chief Vincent Gahol, Pola MDRRMO, PCG personnel and PNP personnel relevant to the establishment of collection points for hazardous materials collected during the clean-up activities in Pola, Oriental Mindoro</p> <div></div> <p>Continuous daily water sampling was also conducted in the designated sampling stations.</p> <p>The PCG conducted cleanup activities in coordination with other agencies, LGU, and volunteers in Pola, Oriental Mindoro. 92 sacks of oiled debris, sea grasses, and used oil absorbent pads has been collected in Sitio Bagong Silang, Brgy. Buhay na Tubig, Pola, Oriental Mindoro.</p> <div></div> <p>PCG Further reported is that BRP Bagacay (MRRV-4410) worked with MTUG TITAN-1 and MTUG LIDAGAT in conducting CONTAINMENT AND RECOVERY OPERATIONS, as well as OIL DISPERSANT APPLICATION in the vicinity waters off Naujan, Oriental Mindoro.</p> <div></div>



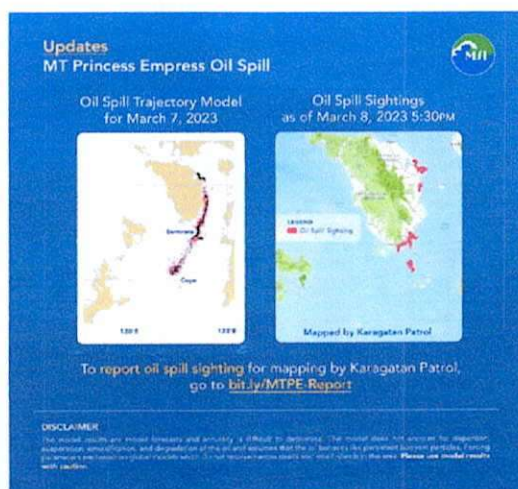
11:49AM – A coordination meeting with PDRRMO Chief Vincent Gahol, Pola MDRRMO, PCG personnel, and PNP personnel relevant to the establishment of collection points for hazardous materials collected during the clean-up activities in Pola.

The officials have agreed to hire one person per family in all affected coastal municipalities under the "cash for work" program. There will also be a massive and simultaneous shoreline clean-up on Friday, 10 March 2023.



8:30PM – Updates from UP MSI:

- the images sent by the US Embassy from USGS to UP MSI confirmed continuous seepage of oil from the vessel location
- UP MSI made some calculations of volume and rate of seepage, which was sent to the DENR Secretary and presented to the President
- From the said model, seepage will last for 20 days, hence, we should expect around 2 more weeks before the tank gets emptied
- Model also emphasized that Pola and Naujan will continuously receive those spills
- No additional oil sightings/areas for today
- There are rumors spreading that the oil will reach Boracay, which is not a supported scenario by the model given the prevailing winds
- UP MSI will release bulletins to show the model and actual sightings side-by-side, with a call to the public to report any new sightings to help gather data



09 March 2023 8:00AM – Ongoing recovery of wastes buried by residents in the shore of Brgy. Calima.



8:52AM – PCG announced that Oil control experts from the Japan Coast Guard (JCG) will help the Philippine Coast Guard (PCG) and other concerned agencies in the ongoing oil spill response operations in Naujan, Oriental Mindoro. According to Ambassador of Japan in the Philippines Kazuhiko Koshikawa, Japan will send a disaster relief expert team on oil removal and control to augment the country's manpower and assets after MT PRINCESS EMPRESS with 800,000 liters of industrial fuel oil submerged on 28 February 2023.

10:00AM – A meeting with CRL (private laboratory who will be conducting ground sampling and fingerprinting to determine the type of oil) are explaining the types of tests that may be conducted In Pola, Oriental Mindoro.





1:19PM - PCG reported of the continuous installation of oil spill boom as part of containment and recovery operations in Naujan, Oriental Mindoro.

1:30PM – EMB MIMAROPA attended the meeting with LGU and DSWD regarding the Cash for Work program



2:28PM - EMB donated mini spill booms and facemask to LGU Pola

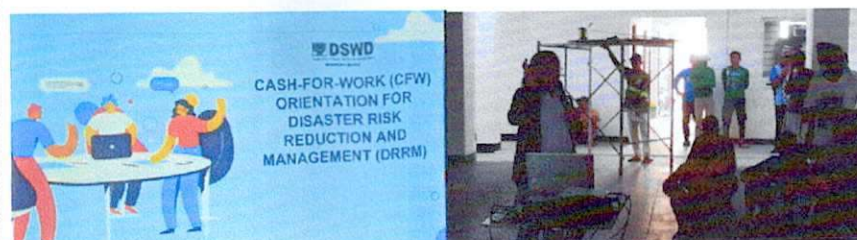


2:30PM - Inter-agency meeting at Incident Command Post (ICP) to discuss the cleanup activities.





2:48PM – Cash-For-Work Orientation for Disaster Risk Reduction Management (DRRM) was held at _____



5:13PM - The Philippine Coast Guard (PCG) reports the following updates regarding the ongoing oil spill response operations in Oriental Mindoro as of 4PM today, 09 March 2023:

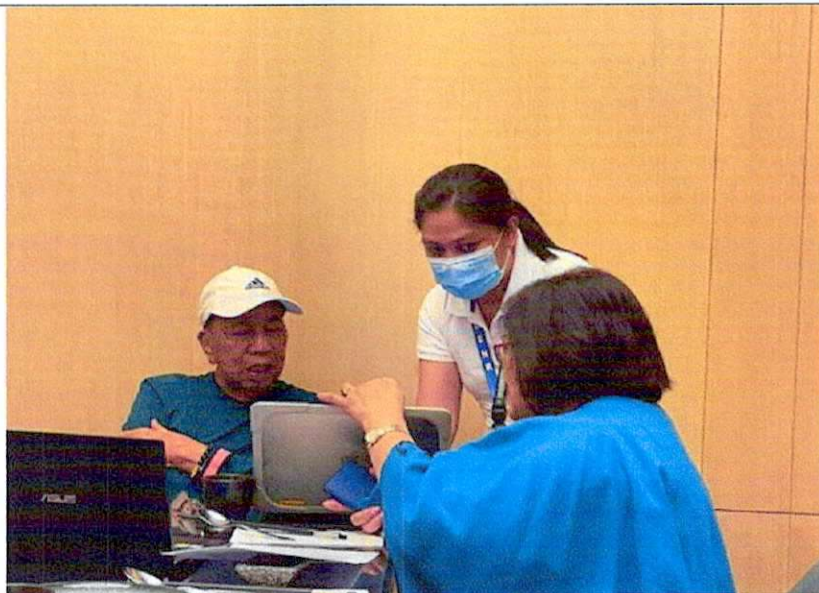
- a) The municipality of Pola will create TASK FORCE POLA to pursue appropriate legal actions against the owner, operator, or insurer of MT PRINCESS EMPRESS in proper courts or administrative agencies for the damages they incurred.
- b) The Provincial Environment and Natural Resources Office (PENRO) conducted an assessment and fuel fingerprinting at the affected coastal barangays.
- c) Concerned agencies discussed the simultaneous coastal clean-up tomorrow, 10 March 2023. Residents and local fishermen will assist in the operations.
- f) DOH required all coastal clean-up participants to wear full-face respirators to uphold public safety. Toxicologists will also be present during the initiative.
- g) M/Tug TITAN-1 and M/Tug LIDAGAT conducted dispersant application, and containment and recovery operations.
- h) Shoreline Clean-up Team in Pola Oriental Mindoro observed minimal traces and patches of oil along the shorelines with a three-kilometer length area covered. They also noted patches of oil floating on the surface of the water.

5:17PM – PEMU Oriental Mindoro received the donation from Prime Energy Resources Development (Malampaya):

54 pcs UN Drums (210 Liters)
10 tote tanks (1cum)

8:50PM – Meeting with Hon. Elpidio Barzga Jr. Chairperson on House Committee on Natural Resources regarding Naujan Oil Spill.





9:15PM – WASTES COLLECTED as reported by Engr. Padirayon:

Brgy Calima: 7 drums (10 AM)

Brgy Calima: 3 drums (5 PM)



Thursday, March 9, 2023 at 5:25 PM
13.136475° N, 121.478030° E
Mindoro
EMB MIMAROPA Region



PENRO Compound, Brgy. Suqui, Calapan City, Oriental Mindoro
Regional Satellite Office: 6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita, Manila
Environmental Management and Enforcement Division: (02) 8633 2587; Clearance and Permitting Division: (02) 8633 2587
Records Management Unit: (02) 8633 8900
E-mail Address: embmimaropa@emb.gov.ph
Website: www.mimaropa.emb.gov.ph



10 March 2023

9:00AM – On-going clean-up at Brgy. Misong



9:32AM – Installation of improvised oil spill booms in Brgy. Balatasan, Bulalacao.



10:15AM – Improvised spill boom of Brgy. Aplaya, Bongabong



11:10AM – PCG and Semirara Mining and Power Corporation reportedly collected up to 19 sacks of oiled debris during shoreline clean-up at Sitio Sigaya, Barangay Semirara, Island, Caluya, Antique.



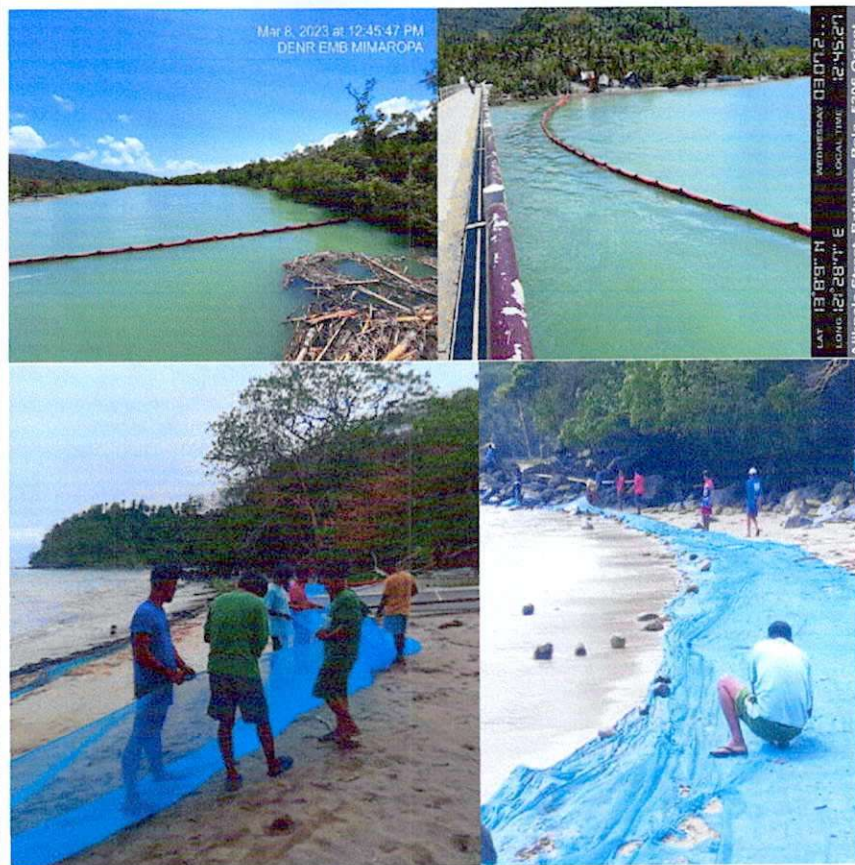
R4B-2023-005026

PENRO Compound, Brgy. Suqui, Calapan City, Oriental Mindoro
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12:54PM – EMB MIMAROPA, Philippine Coast Guard and the Municipal Disaster Risk Reduction and Management Office installed spill booms and absorbent booms at Calimawawa River, Casilagan River, and Brgy. Misong in Pola, Oriental Mindoro to contain the oil spillage from the sunken MT Princess Empress.



2:21PM - The [Philippine Coast Guard](#) (PCG) led the joint simultaneous oil spill shoreline clean-up in four affected coastal barangays of Pola, Oriental Mindoro, today, 10 March 2023. Approximately 30 bags of oil debris were collected during the initiative. The PCG briefed the volunteers about the risks associated with the oil spill, the do's and don'ts while on the site, and importance of wearing appropriate personal protective equipment (PPE). The Philippine Army, Philippine Maritime Group, Department of Environment and Natural Resources, Provincial Health Office, and volunteers supported the joint simultaneous oil spill shoreline clean-up at Barangay Tagumpay, Barangay Misong, Barangay Buhay na Tubig, and Barangay Calima.



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4:20PM – Sediment collection for sampling at Brgy. Calima



5:52PM – Sediment collection at Brgy Batuhan Kabilang Ibayo



6:53PM – UP MSI Bulletin #06 (March 10, 2023): Oil slick sightings and deposition reported in Taytay, Palawan The Philippine Coast Guard (PCG) has reported oil slick sightings and onshore deposition on the coast of Barangay Casian, Taytay, Palawan. Northwestern Palawan is advised to prepare and report any sighting of oil slick to authorities and <https://bit.ly/MTPE-Report>, await government advice regarding coastal cleanup, and adhere to public guidance to prevent its harmful effects.

Relative thereto, the PCG began assessment earlier this afternoon and clean-up activities

Updates

MT Princess Empress Oil Spill

Oil Spill Sightings
as of March 10, 2023 5:30PM

Mapped by Karagatan Patrol

Photos taken by the Philippine Coast Guard

To report oil slick sighting for mapping by Karagatan Patrol,
go to bit.ly/MTPE-Report

***WASTES COLLECTED** as reported by Engr. Padirayon:
Brgy Calima: 2 drums
Brgy Misong: 12 drums

11 March 2023	6:00AM – On-going Water sampling activity at six (6) sampling stations at Pinamalayan, Oriental Mindoro
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PENRO Compound, Brgy. Suqui, Calapan City, Oriental Mindoro
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12:00PM – Initial meeting with MDRRMO of LGU Magsaysay re monitoring and preparations on possible oil spill in their area of jurisdiction based on the dispersion model released by UP MSI.



1:00PM – Meeting with the new Incident Commander Commodore Geronimo Tuvilla, PDRRMO, MDRRMO, MHO, BFP, Philippine Army, ABC President, DENR and Harbor Star.



2:49PM – Sampling team from PEMU – Palawan conducted water quality sampling at Brgy. Casian, Taytay, Palawan.



Locals of Brgy. Poblacion, Taytay, Palawan collecting raw materials for the fabrication of improvised spill booms.





Residents Of Roxas, Palawan also worked together to make Improvised Spill Booms using hay and used clothes (Pier, Brgy. Iv, Roxas, Palawan)



4:54PM - 37 personnel from Marine Environmental Protection Unit conducted clean up and installation of new spill boom in Casiligan River.



***WASTES COLLECTED** as reported by Engr. Padirayon:
Brgy Calima: 6 drums



	<p>Brgy Batuhan (Casiligan River): 4 drums Brgy Zone 2 (Casiligan River): 2 drums</p>
<p>12 March 2023</p>	<p>9:00AM - On-going installation of improvised spill boom at Brgy. Ranzo (Ranzo Fish Sanctuary)</p> <div></div> <p>12:00PM – Meeting with LGU, PCG, and Japan Coast Guard.</p> <div></div> <p>2:35PM – The improvised spill booms by the Residents Of Roxas, Palawan is now estimated to be measuring around 1,500 meters.</p> <div></div> <p>4:10PM – UP MSI Bulletin #07 (March 12, 2023): Oil spill trajectory model forecasts that spill will reach the Verde Island Passage due to weakening Amihaan. The recent simulation focusing on the area of the tanker's location for March 10 to 16 shows that with continuous seepage of oil, most of the oil will end up along Naujan coast and Pola Bay. However, due to the weakening Amihaan, some of the oil may flow northwards towards the Verde Island Passage by March 16, affecting coastal areas of Calapan, Verde Island, and some parts of Batangas. The oil spill threatens the global</p>

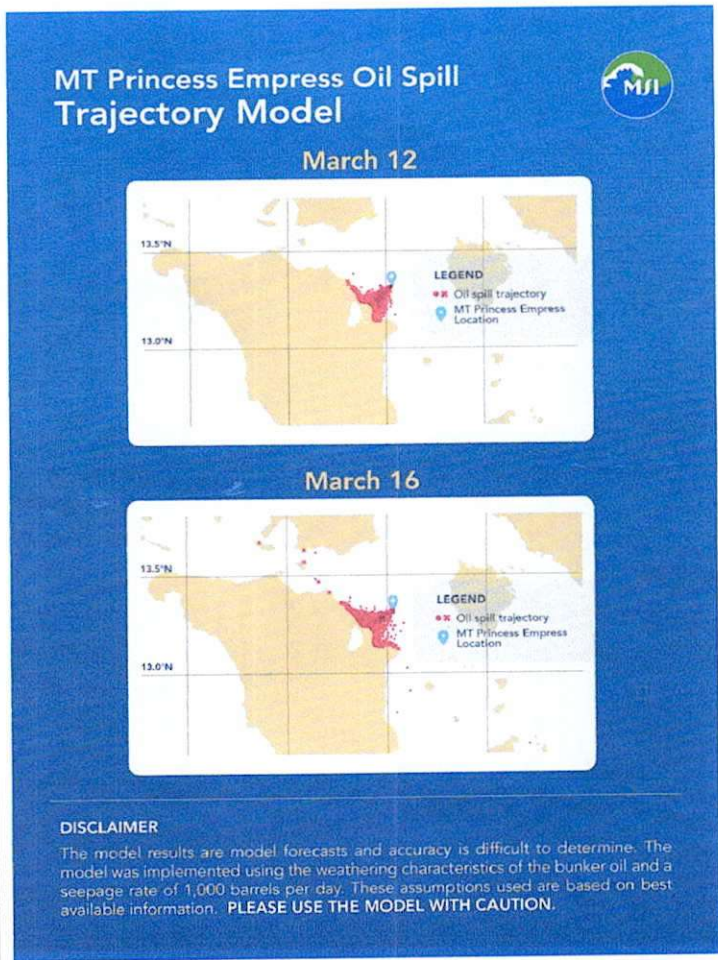


center of marine biodiversity located in the Verde Island Passage (VIP).

The VIP is the body of water between Batangas and Mindoro and it has the highest concentration of coastal fishes, corals, crustaceans, molluscs, seagrasses, and mangroves. The VIP is also home to endangered and threatened species including the critically endangered hawksbill turtle, whale sharks, manta rays, dugongs, humphead wrasses, giant groupers, and giant clams.

Damage from the oil spill may affect biodiversity (including endemic species only found in the Philippines as well as species yet to be discovered), tourism revenues, and food security in the area.

**Disclaimer: The model results are model forecasts and accuracy is difficult to determine. The model was implemented using the weathering characteristics of the bunker oil and a seepage rate of 1,000 barrels per day. These assumptions used are based on best available information.*



***WASTES COLLECTED** as reported by Engr. Padirayon:
Brgy Misong: 9 drums
Brgy Tagumpay: 12 drums

13 March 2023

9:00AM – The replacement of the spill booms at Casiligan River, Pola, Oriental Mindoro was installed.





Also today in Palawan, reports that the oil spill has reached the shores of Agutaya, Palawan was received, Ms. Mercedita Almorfe, Supervising EMS, Provincial Environmental Management Unit (PEMU) – Palawan has immediately coordinated the concern to the MDRRMO of Agutaya, Palawan and PCG. However, our sampling team was not able to proceed in the site due to the gale warning issued by the PCG. As of date, continuous coordination is being made with various LGUs, government agencies and PCG regarding any reports of oil slick sightings and measures being taken to mitigate or reduce the impact of oil spill within the province of Palawan. Likewise, continuous monitoring and water quality sampling is being conducted in Taytay, Palawan where earlier reports of oil spill were sighted, and coordination with LGU and other government agencies is being made to assist in the proper collection, storage and disposal of hazardous waste.

Chief, PEMU – Oriental Mindoro is currently attending a Committee Hearing at the Committee Board Room, Batasang Panlalawigan (Benigno S. Aquino, Jr. Legislative Building, Camilmil, Calapan City regarding the *“Resolution directing the Committee o Environment, Natural Resources, Climate Change and Disaster Management to Conduct an inquiry, in aid of legislation, on the oil spill from the sunken MT Princess Empress in Oriental Mindoro, with the purpose of determining the extent of damage to the marine resources and coastal barangays in Oriental Mindoro and recommending appropriate prevention measures, contingency and rehabilitation plan as well as possible legal action against the owners/consignee of the sunken ship.”*

9:00AM - The Japan Coast Guard, joined with representatives of DENR, MDRRMO – Pola, PDRRMO and Philippine Coast Guard conducted site assessment at Brgy. Buhay na Tubig, Pola, Oriental Mindoro and dialogue regarding the proposed clean- up/rehabilitation plan. The Japanese Coast Guard conducted sampling at Batuhan, Pola, Oriental Mindoro.



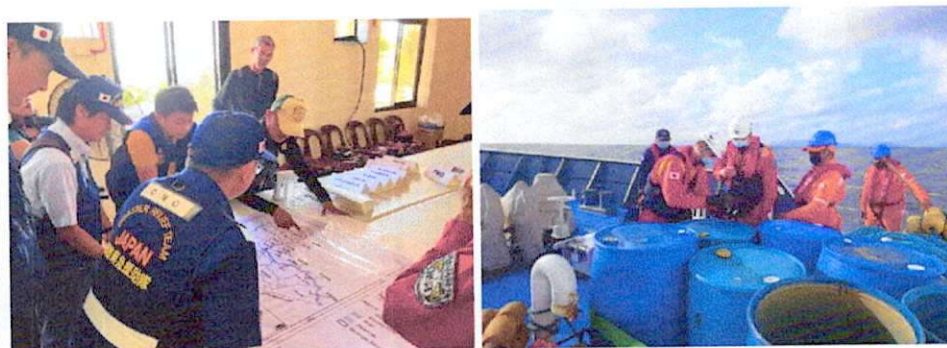


The PCG Incident Management Team in Oriental Mindoro Commander, CG Commodore Geronimo Tuvilla, presided over a briefing on the ongoing oil spill operations in Pola on 13 March 2023. During the meeting, the Japan Disaster Relief (JDR) Expert Team shared their observations on the shoreline clean-up operations at Barangay Buhay na Tubig, Pola.

The Japanese experts said the joint clean-up operations have effectively minimized the oil spill's impact at the coastal barangay. They also reminded the stakeholders to observe the proper handling of collected waste.

Before concluding the briefing, Area Police Commander of Southern Luzon, Police Lieutenant Gener Rhoderick Armamento, said the [Philippine National Police](#) (PNP) will fully support Pola, Oriental Mindoro, recovering from this maritime incident.

Pola Mayor Jennifer Cruz and Provincial Disaster Risk Reduction Management Officer Vincent Gaho also attended the meeting.



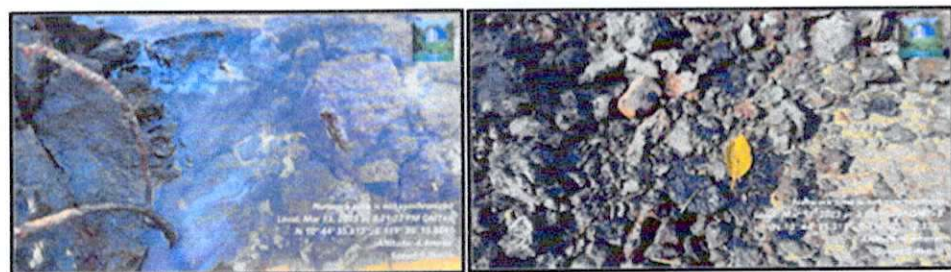
12:00PM – EMB MIMAROPA sampling team from PEMU – Palawan lead by Ms. Nicaith Enrile, Chief – EMS Taytay, conducted water quality sampling on the following locations (beach area) in Taytay, Palawan:



1. Sitio Tagpao;
2. Baled;
3. Dinamayan Island;
4. Brgy. Biton;
5. Sitio Sader;
6. Brgy. Bantulan;
7. Sitio Amoegis;
8. Sitio Calumpang;
9. Brgy. Calawag; 10. Calawag Proper (Port Area)



it was observed that traces of oil film and sludge were found on the water bodies, stones, and wastes disposed near the surrounding water bodies at **Sitio Sader**.



Chief – EMS Brooke's Point, Palawan, joined with CENRO Officer – Brooke's Point, coordinated and requested for shredded and empty palm materials from Agumil Philippines Corporation. The materials which shall be collected shall be converted into improvised spill boom and will be donated to the Local Government Unit of Taytay, Palawan thru CENRO – Taytay.



12:34PM - The PCG's BRP Corregidor (AE-891) ferried 5.1 tons of equipment from the Japan Disaster Response (JDR) Team to help sustain the ongoing oil spill response operations in Oriental Mindoro yesterday, 12 March 2023. The said equipment consisted of oil spill response workwear, masks, oil-proof working gloves, oil-proof rubber boots, oil blotter, and oil



snare. Afterwards, the JDR team boarded BRP Bagacay (MRRV-4410) and conducted ocular inspection in the vicinity waters off Naujan, Oriental Mindoro.



6:00PM - Based on the report provided by the Philippine Coast Guard the following observations were made:

1. Brgy. Algeciras, Agutaya, Palawan : minimal sightings at shoreline, no new sightings of oil spill.
2. Brgy. Concepcion, Agutaya, Palawan: minimal sightings at shoreline, no new sightings of oil spill.
3. Brgy. Casian, Taytay, Palawan: stranded oil at shoreline, clean-up operations already conducted.
4. Brgy. Biton, Taytay, Palawan: minimal sightings at shoreline.
5. Brgy. Calawag, Taytay, Palawan: stranded oil at shoreline, clean-up operations already conducted.
6. SitioMaliao, Brgy. Pamantolon, Taytay, Palawan: minimal traces of oil slick, on-going clean-up.

14 March 2023

11:00AM - The DENR Secretary Antonia Loyzaga and members of the DENR Task Force MT Princess Empress, led by Task Force Commander Undersecretary Marilou Erni, attended the Senate Committee On Environment, Natural Resources, And Climate Change public hearing to discuss the damage caused by the oil spill from the sunken tanker MT Princess Empress.

“We have plotted our ways forward which are continuing to evolve... Therefore, there is a rolling plan that will respond to the conditions on the ground as well as the needs of our affected communities,” Loyzaga said. The DENR presented its course of actions and ways forward that are based on scientific data provided by the UP Marine Science Institute, Philippine Space Agency, and with the assistance from its international partners to mitigate the effects of the spill to the country's marine resources, ecosystem, and communities.





11:48AM - Far East Fuel Corporation hauled the oil contaminated wastes and materials amounting to 78.5 Drums as of March 14, 2023. The hauling was witnessed by Engr. Rochelle Padirayon, Chief, Toxic Chemicals and Hazardous Waste Monitoring Section and Technical Staff from EMB – MIMAROPA Environmental Monitoring and Enforcement Division.



Palawan News posted in their social media page, the report that the oil spill has already reached the seaweed farms at Brgy. Calawag, Taytay, Palawan. Palawan News has also reported that clean-up operations have already been conducted alongside the 3rd Marine Battalion Landing Team, MENRO, and PCG. As of date, a spill boom measuring 800 meters has been placed in the ocean covering Brgy. Ilian – which is the boundary of LGU Dumarán and Roxas, Palawan.

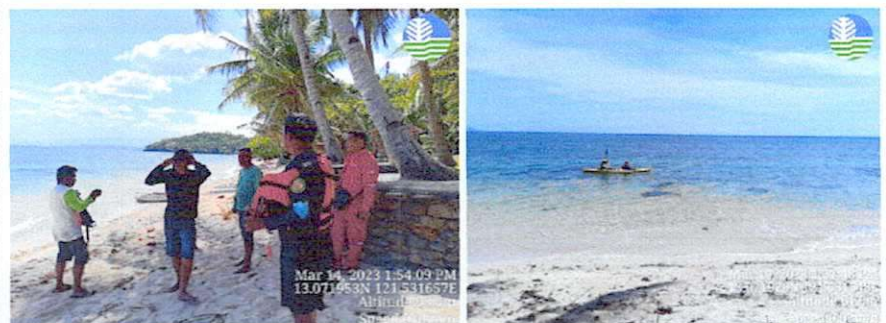




1:00PM – Improvised spill boom installed at Ranzo, Pinamalayan, Oriental Mindoro



1:52PM – Improvised spill boom installed at Pili, Pinamalayan, Oriental Mindoro



R4B-2023-005026

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15 March 2023

8:00AM - PEMU – Oriental Mindoro technical staff, assisted by PCG personnel were able to collect two (2) drums of hazardous waste at Brgy. Zone 1, Pola, Oriental Mindoro. Currently, our technical teams are continuously conducting water quality sampling at various locations in Oriental Mindoro and monitoring the storage sites where the hazardous wastes are temporarily stored.



8:20AM - Chief, PEMU – Occidental Mindoro, joined with technical staff from PEMU – Occidental Mindoro conducted water quality sampling at the following sites/areas:

1. Burangcaan Point, Magsaysay, Occidental Mindoro
2. Alibog Beach, Magsaysay, Occidental Mindoro
3. Garza Island, Magsaysay, Occidental Mindoro
4. Pawikan, Ilin Island, San Jose, Occidental Mindoro
5. Grace Island, Ambulong, Occidental Mindoro



8:44AM - 35.5 drums of I104 wastes are ready for hauling at Brgy Zone 1, Pola Near, 2 drums stored Brgy. Calima, 5.5 Drums Brgy Misong, 12 Drums at Misong Elementary School and 13 drums at Tagumpay.





9:00AM - Ms. Jane Dumenden and Ms. Kathryn Maevelyn Tupasi from EMB – MIMAROPA Region’s Environmental Monitoring and Enforcement Division is attending the Regional Inter-Agency Committee on Environmental Health at the Hop Inn Hotel, Quezon City to discuss the actions being taken by the Office to address the concerns pertaining to the oil spill affecting the provinces of Oriental Mindoro and Palawan.



9:00AM - EMB MIMAROPA Regional Director, joined with Asec. Gilbert Gonzales, Director and concurrent Asec. for Field Operations, and Usec. Marilou Erni, Chief of Staff and Supervising Undersecretary for Strategic Communications and Task Force Commander, Task Force Naujan Oil Spill is also attending a meeting at the NDRRMC Main Office for the NDRRMC Emergency Meeting ICOW Oil Spill Incident in MIMAROPA and Region VI.



9:45AM - The PCG reported that it has collected 700 liters of oily water mixture and six sacks of oil-contaminated materials using MTUG LIDAGAT and MTUG TITAN-1 yesterday, 14 March 2023. From 01 to 14 March 2023, the PCG recorded 5,603 liters of oily water mixture and 50 sacks of oil-contaminated materials collected during its offshore oil spill response operations. For shoreline response, the PCG collected 140 sacks of oil-contaminated materials on 14 March 2023, resulting in 1,071 sacks and 22 drums of waste



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collected at 13 affected barangays in Naujan, Bulalacao, and Pola, Oriental Mindoro, from 01 to 14 March 2023.



10:00 AM – Per information gathered by PEMU Palawan from the PCG CGSNCP: *On or about 15 0700H March 2023, Personnel of CGSSS Araceli and CGSS Dumarang of CGS North Central Palawan conducted coastal monitoring patrol along their respective shoreline, however, there are no sightings of oil spill traces within their AOR. In addition, this unit continues in coordination with LGU together with other concerned agencies for possible oil spills within their AOR. Likewise, the stations informed the fisherfolks within the coastal barangays of any sighted oil spilled to report to the nearest coastguard station/sub-station and Brgy officials.*

2:47PM – The PCG joined the deployment of an oil spill boom and skimmer with manual scooping around the suspected area of the sunken MT PRINCESS EMPRESS approximately 7.1 nautical miles northeast of the shorelines of Balingawan Port, Lucta Port, and Buloc Bay in Oriental Mindoro, yesterday, 14 March 2023. MTUG TITAN-1 and MTUG LIDAGAT conducted the said operations. The National Strike Force Offshore Team collected 700 liters of oily water mixtures yesterday. The team also collected six sacks of absorbent pads during the oil spill recovery efforts. Moreover, they used six bales of absorbent pads and five gallons of dispersant. The National Strike Force Offshore Team will continue its operations around the suspected area of the sunken vessel to contain and recover the remaining oil spill, which threatens the vicinity water's rich marine biodiversity.



3:57PM – EMB MIMAROPA conducted Ambient Air Sampling at Brgy. Calima, Pola, Oriental Mindoro



This Office commits to continue providing technical assistance in all the clean-up operations, support the affected barangays, and assist the concerned LGUs in the safe collection, storage and disposal of hazardous wastes.

This Office shall continue to monitor the situation and apprise the Undersecretary on all the latest situation development.

For the Undersecretary's information, reference, and further instructions, if any.

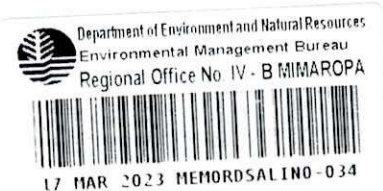

JOE AMIL M. SALINO

Copy furnished:

ATTY. JUAN MIGUEL T. CUNA, CESO I
Undersecretary for Field Operations Luzon, Visayas, and Environment

ATTY. JONAS R. LEONES, CESO I
Undersecretary for Policy, Planning and International Affairs

LORMELYN A. CLAUDIO, CESO IV
Regional Executive Director DENR – MIMAROPA Region



R4B-2023-005026

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SAMPLING STATIONS AND RESULTS OF ANALYSIS – NAUJAN, ORIENTAL MINDORO (MARCH 1 – 10, 2023)

Source	Station No.	Station Identification	Classification	Current Beneficial Usage	WQG	Date of Sampling									
						March 1, 2023	March 2, 2023	March 3, 2023	March 4, 2023	March 5, 2023	March 6, 2023	March 7, 2023	March 8, 2023	March 9, 2023	March 10, 2023
Naujan Municipal Waters	1	Estrella	Class SB	Swimming, fishing, tourist area, docking of boat, residential area (20-30 meters away from the beach)	2 mg/L	2 mg/L	5 mg/L	3 mg/L	8 mg/L	3 mg/L	<1 mg/L	16 mg/L	2 mg/L	1 mg/L	2 mg/L
	2	Sta. Cruz	Class SC	Fishing, docking of boat, swimming	3 mg/L	13 mg/L	5 mg/L	3 mg/L	13 mg/L	<1 mg/L	3 mg/L	9 mg/L	2 mg/L	<1 mg/L	3 mg/L
	3	San Jose (Sitio Pitogo)	Class SB	Swimming, presence of beach resort, tourist area	2 mg/L	<1 mg/L	4 mg/L	49 mg/L	9 mg/L	16 mg/L	1 mg/L	30 mg/L	4 mg/L	7 mg/L	3 mg/L

4	San Jose (Sitio 1)	Class SC	Docking, fishing, swimming with residential area	3 mg/L	11 mg/L	5 mg/L	8 mg/L	12 mg/L	10 mg/L	3 mg/L	31 mg/L	15 mg/L	11 mg/L	34 mg/L
5	Antipolo/San Jose Proper	Class SC	Swimming, docking of boat, fishing, residential area	3 mg/L	21 mg/L	NO SAMPLING WAS CONDUCTED PER ADVICE OF MDRMO/PCG/BANTAY DAGAT AND FISHERY MANAGEMENT UNIT DUE TO BAD WEATHER								-
6	Brgy. Melgar A/ Pitogo Beach	Class SB	Swimming with residential area	2 mg/L	7 mg/L	8 mg/L	3 mg/L	15 mg/L	2 mg/L	5 mg/L	8 mg/L	19 mg/L	10 mg/L	32 mg/L
7	Melgar B/ Papangkil Beach	Class SC	Swimming, fishing area, with residential area	3 mg/L	9 mg/L	5 mg/L	6 mg/L	11mg/L	<1 mg/L	9 mg/L	11 mg/L	22 mg/L	3 mg/L	9 mg/L

8	Buloc-Buloc Fish Sanctuary	Class SA	Tourist area, fish sanctuary	1 mg/L	<1 mg/L	NO SAMPLING WAS CONDUCTED PER ADVICE OF MDRRMO/PCG/BANTAY DAGAT AND FISHERY MANAGEMENT UNIT DUE TO BAD WEATHER	9 mg/L	NO SAMPLING WAS CONDUCTED PER ADVICE OF MDRRMO/PCG/BANTAY DAGAT AND FISHERY MANAGEMENT UNIT DUE TO BAD WEATHER	-
9	Montemayor Proper	Class SA	Swimming, fishing	1 mg/L	2 mg/L		5 mg/L		-
10	Masaguing	Class SA	Swimming, fishing	1 mg/L	<1 mg/L		12 mg/L		-
11	Tujod Fish Sanctuary	Class SA	Fish sanctuary	1 mg/L	15 mg/L		8 mg/L		-

SAMPLING STATIONS AND RESULTS OF ANALYSIS – NAUJAN, ORIENTAL MINDORO (MARCH 11 TO 20, 2023)

Source	Station No.	Station Identification	Classification	Current Beneficial Usage	WQG	Date of Sampling									
						March 11, 2023	March 12, 2023	March 13, 2023	March 14, 2023	March 15, 2023	March 16, 2023	March 17, 2023	March 18, 2023	March 19, 2023	March 20, 2023
Naujan Municipal Waters	1	Estrella	Class SB	Swimming, fishing, tourist area, docking of boat, residential area (20-30 meters away from the beach)	2 mg/L	30 mg/L	9 mg/L	7 mg/L							
	2	Sta. Cruz	Class SC	Fishing, docking of boat, swimming	3 mg/L	1 mg/L	18 mg/L	2 mg/L							
	3	San Jose (Sitio Pitogo)	Class SB	Swimming, presence of beach resort,	2 mg/L	19 mg/L	5 mg/L	4 mg/L							

6	Brgy. Melgar A/ Pitogo Beach	Class SB	Swimming with residential area	2 mg/L	<1 mg/L	11 mg/L	1 mg/L								
7	Melgar B/ Papangkil Beach	Class SC	Swimming, fishing area, with residential area	3 mg/L	<1 mg/L	12 mg/L	8 mg/L								
8	Buloc-Buloc Fish Sanctuary	Class SA	Tourist area, fish sanctuary	1 mg/L	-	-	12 mg/L								
9	Montemayor Proper	Class SA	Swimming, fishing	1 mg/L	-	-	30 mg/L								
10	Masaguig	Class SA	Swimming, fishing	1 mg/L	-	-	15 mg/L								
11	Tujod Fish Sanctuary	Class SA	Fish sanctuary	1 mg/L	-	-	12 mg/L								

SAMPLING STATIONS AND RESULTS OF ANALYSIS - PINAMALAYAN, ORIENTAL MINDORO

Source	Station No.	Station Identification	Current Beneficial Use	Date of Sampling								Classification	WQG
				March 2	March 7	March 8	March 9	March 10	March 11	March 12	March 13		
Pinamalayan Bay (Coastal), Oriental Mindoro	1	Brgy. Lumang Bayan	Swimming, docking of boat	<1 mg/L	12 mg/L	2 mg/L	<1 mg/L	27 mg/L	24 mg/L	5 mg/L	(no data) broken bottle	Class SC	3 mg/L

***NO SAMPLING WAS CONDUCTED AT LUMANGBAYAN FROM MARCH 3 TO MARCH 6, 2023 PER ADVICE OF MDRRMO/PCG/BANTAY DAGAT AND FISHERY MANAGEMENT UNIT DUE TO BAD WEATHER**

SAMPLING STATIONS AND RESULTS OF ANALYSIS – PINAMALAYAN BAY (MPA) , ORIENTAL MINDORO (MARCH 1 TO 10, 2023)

Source	Station No.	Station Identification	Current Beneficial Use	Classification	WQG	Date of Sampling									
						March 1, 2023	March 2, 2023	March 3, 2023	March 4, 2023	March 5, 2023	March 6, 2023	March 7, 2023	March 8, 2023	March 9, 2023	March 10, 2023
Pinamalayan Bay (MPA), Oriental Mindoro	1	Simborio Fish Sanctuary	Fishing	Class SA	1 mg/L	-	9 mg/L	4 mg/L	9 mg/L	3 mg/L	2 mg/L	35 mg/L	5 mg/L	2 mg/L	12 mg/L
	2	Ginapangan Fish Sanctuary	Fish sanctuary	Class SA	1 mg/L	-	47 mg/L	6 mg/L	17 mg/L	3 mg/L	1 mg/L	17 mg/L	3 mg/L	<1 mg/L	5 mg/L
	3	Pili Fish Sanctuary	Swimming, fishing, fish sanctuary	Class SA	1 mg/L	-	4 mg/L	4 mg/L	6 mg/L	5 mg/L	1 mg/L	21 mg/L	4 mg/L	2 mg/L	6 mg/L
	4	Ranzo Fish Sanctuary	Swimming, fishing	Class SA	1 mg/L	-	3 mg/L	6 mg/L	2 mg/L	3 mg/L	16 mg/L	7 mg/L	1 mg/L	4 mg/L	5 mg/L
		MAR Francisco	(NEW STATION)			-	-	-	-	-	-	10 mg/L	3 mg/L	5 mg/L	4 mg/L

SAMPLING STATIONS AND RESULTS OF ANALYSIS – PINAMALAYAN BAY (MPA) , ORIENTAL MINDORO (MARCH 11 TO 20, 2023)

Source	Station No.	Station Identification	Current Beneficial Use	Classification	WQG	Date of Sampling									
						March 11, 2023	March 12, 2023	March 13, 2023	March 14, 2023	March 15, 2023	March 16, 2023	March 17, 2023	March 18, 2023	March 19, 2023	March 20, 2023
Pinamalayan Bay (MPA), Oriental Mindoro	1	Simborio Fish Sanctuary	Fishing	Class SA	1 mg/L	-	27 mg/L	60 mg/L							
	2	Ginapangan Fish Sanctuary	Fish sanctuary	Class SA	1 mg/L	27 mg/L	15 mg/L	9 mg/L							
	3	Pili Fish Sanctuary	Swimming, fishing, fish sanctuary	Class SA	1 mg/L	9 mg/L	17 mg/L	9 mg/L							
	4	Ranzo Fish Sanctuary	Swimming, fishing	Class SA	1 mg/L	-	9 mg/L	(no data) broken bottle							
		MAR Francisco	(NEW STATION)			3 mg/L	<1 mg/L	29 mg/L							

SAMPLING STATIONS AND RESULTS OF ANALYSIS - POLA, ORIENTAL MINDORO
(MARCH 1 TO 10, 2023)

Source	Station No.	Station Identification	Classification	Current Beneficial Use	WQG	Date of Sampling									
						March 1, 2023	March 2, 2023	March 3, 2023	March 4, 2023	March 5, 2023	March 6, 2023	March 7, 2023	March 8, 2023	March 9, 2023	March 10, 2023
Pola Shoreline	1	Misong MPA	Class SA	Tourist area, fishing, fish sanctuary	1 mg/L	-	20 mg/L	5 mg/L	3 mg/L	-	4 mg/L	9 mg/L	12 mg/L	3 mg/L	2 mg/L
	2	Central Tagumpay MPA	Class SA	Tourist area	1 mg/L	-	10 mg/L	7 mg/L	15 mg/L	-	7 mg/L	6 mg/L	17 mg/L	4 mg/L	2 mg/L
	3	Tuguihan MPA	Class SC	Port of Pola, Docking of boat, fishing sanctuary	3 mg/L	-	-	6 mg/L	25 mg/L	-	5 mg/L	5 mg/L	12 mg/L	34 mg/L	<1 mg/L
	4	Casiligan River Estuary	Class SA	Casiligan drainage area	1 mg/L	-	-	4 mg/L	4 mg/L	-	4 mg/L	6 mg/L	5 mg/L	3 mg/L	11 mg/L

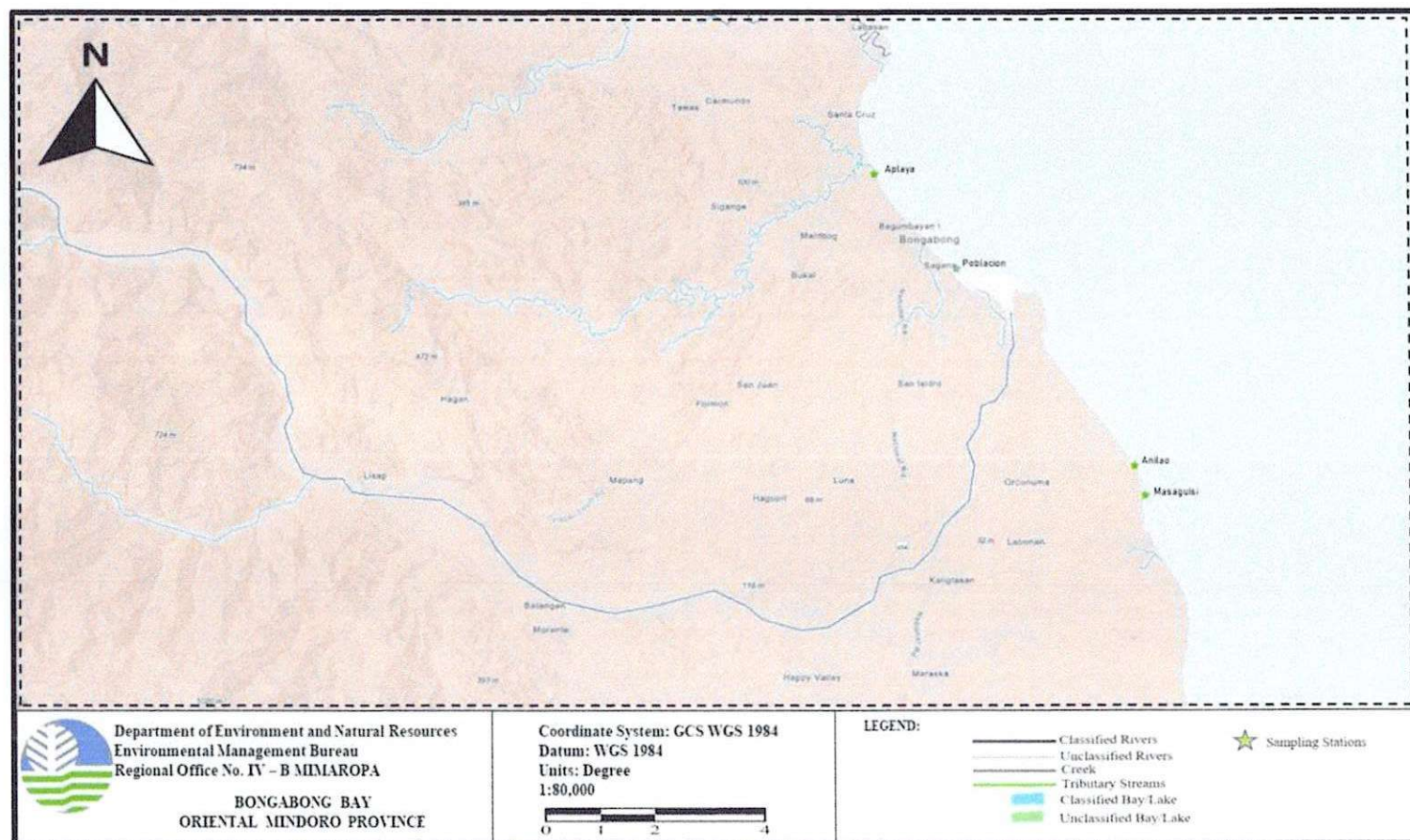
	5	Calima MPA	Class SA	Fishing sanctuary, fishing	1 mg/L	-	3 mg/L	8 mg/L	5 mg/L	NO SAMPLING WAS CONDUCTED PER ADVICE OF MDRRMO/PCG/BANTAY DAGAT AND FISHERY MANAGEMENT UNIT DUE TO BAD WEATHER	1 mg/L	3 mg/L	14 mg/L
	6	Polacay Beach	Class SC	Tourist area, presence of resort	3 mg/L	-	1 mg/L	4 mg/L	5 mg/L		3 mg/L	<1 mg/L	18 mg/L
	7	Casiligan River Mangrove	Class SB	Within mangrove area, near boat docking area	2 mg/L	-	-	-	14 mg/L		2 mg/L	2 mg/L	<1 mg/L
		Kwebang Tagumpay	Class SC	Within private resort, fishing, swimming	3 mg/L	-	-	10 mg/L	-		8 mg/L	1 mg/L	<1 mg/L

SAMPLING STATIONS AND RESULTS OF ANALYSIS - POLA, ORIENTAL MINDORO
(MARCH 11 TO 20, 2023)

Source	Station No.	Station Identification	Classification	Current Beneficial Use	WQG	Date of Sampling									
						March 11, 2023	March 12, 2023	March 13, 2023	March 14, 2023	March 15, 2023	March 16, 2023	March 17, 2023	March 18, 2023	March 19, 2023	March 20, 2023
Pola Shoreline	1	Misong MPA	Class SA	Tourist area, fishing, fish sanctuary	1 mg/L	3 mg/L	7 mg/L	1 mg/L							
	2	Central Tagumpay MPA	Class SA	Tourist area	1 mg/L	1 mg/L	5 mg/L	9 mg/L							
	3	Tuguihan MPA	Class SC	Port of Pola, Docking of boat, fishing sanctuary	3 mg/L	15 mg/L	12 mg/L	8 mg/L							

4	Casiligan River Estuary	Class SA	Casiligan drainage area	1 mg/L	12 mg/L	27 mg/L	5 mg/L							
5	Calima MPA	Class SA	Fishing sanctuary, fishing	1 mg/L	3 mg/L	17 mg/L	3 mg/L							
6	Polacay Beach	Class SC	Tourist area, presence of resort	3 mg/L	18 mg/L	6 mg/L	8 mg/L							
7	Casiligan River Mangrove	Class SB	Within mangrove area, near boat docking area	2 mg/L	<1 mg/L	4 mg/L	10 mg/L							
	Kwebang Tagumpay	Class SC	Within private resort, fishing, swimming	3 mg/L	3 mg/L	<1 mg/L	4 mg/L							

SAMPLING STATIONS AND RESULTS OF ANALYSIS - BONGABONG, ORIENTAL MINDORO




JOE AMIL M. SALINO
 Regional Director
 EMB - MIMAROPA Region

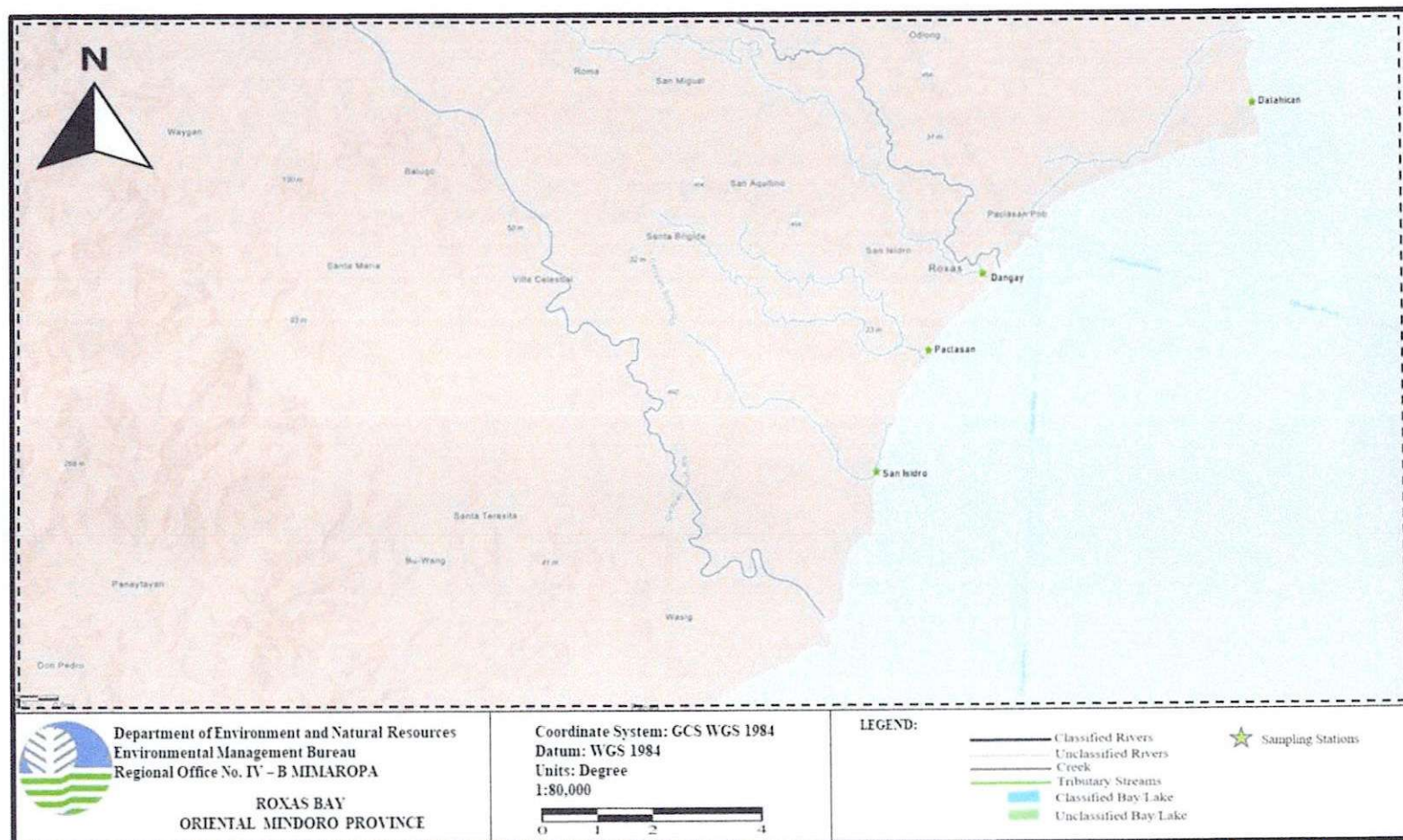
SAMPLING STATIONS AND RESULTS OF ANALYSIS – BONGABONG, ORIENTAL MINDORO
(MARCH 1 TO 10, 2023)

Source	Station No.	Station Identification	Classification	Current Beneficial Use	WQG	Date of Sampling									
						March 1, 2023	March 2, 2023	March 3, 2023	March 4, 2023	March 5, 2023	March 6, 2023	March 7, 2023	March 8, 2023	March 9, 2023	March 10, 2023
Bongabong Bay, Bongabong, Oriental Mindoro	1	Aplaya	Class SB	Swimming, fishing area, docking of boat	2 mg/L	-	-	5 mg/L	10 mg/L	3 mg/L	3 mg/L	6 mg/L	1 mg/L	12 mg/L	12 mg/L
	2	Poblacion	Class SA	Swimming, fishing area	1 mg/L	-	-	4 mg/L	6 mg/L	2 mg/L	3 mg/L	9 mg/L	2 mg/L	7 mg/L	<1 mg/L
	3	Anilao	Class SA	Swimming, marine protected area	1 mg/L	-	-	6 mg/L	11 mg/L	<1 mg/L	19 mg/L	12 mg/L	5 mg/L	3 mg/L	2 mg/L
	4	Masaguisi	Class SB	Marine, protected area, swimming	2 mg/L	-	-	3 mg/L	6 mg/L	13 mg/L	4 mg/L	7 mg/L	9 mg/L	12 mg/L	14 mg/L

SAMPLING STATIONS AND RESULTS OF ANALYSIS – BONGABONG, ORIENTAL MINDORO
(MARCH 11 TO 20, 2023)

Source	Station No.	Station Identification	Classification	Current Beneficial Use	WQG	Date of Sampling									
						March 11, 2023	March 12, 2023	March 13, 2023	March 14, 2023	March 15, 2023	March 16, 2023	March 17, 2023	March 18, 2023	March 19, 2023	March 20, 2023
Bongabong Bay, Bongabong, Oriental Mindoro	1	Aplaya	Class SB	Swimming, fishing area, docking of boat	2 mg/L	<1 mg/L	24 mg/L	9 mg/L							
	2	Poblacion	Class SA	Swimming, fishing area	1 mg/L	3 mg/L	3 mg/L	2 mg/L							
	3	Anilao	Class SA	Swimming, marine protected area	1 mg/L	9 mg/L	2 mg/L	6mg/L							
	4	Masaguisi	Class SB	Marine, protected area, swimming	2 mg/L	5 mg/L	9 mg/L	3 mg/L							

SAMPLING STATIONS AND RESULTS OF ANALYSIS - ROXAS, ORIENTAL MINDORO



**SAMPLING STATIONS AND RESULTS OF ANALYSIS – ROXAS, ORIENTAL MINDORO
(MARCH 1 TO 10, 2023)**

Source	Station No.	Station Identification	Classification	Current Beneficial Usage	WQG	Date of Sampling									
						March 1, 2023	March 2, 2023	March 3, 2023	March 4, 2023	March 5, 2023	March 6, 2023	March 7, 2023	March 8, 2023	March 9, 2023	March 10, 2023
Roxas Bay, Roxas, Oriental Mindoro	1	Dalahican	Class SB	Swimming, fishing, with household near the beach front	2 mg/L	-	-	4 mg/L	6 mg/L	14 mg/L	4 mg/L	8 mg/L	1 mg/L	34 mg/L	4 mg/L
	2	Dangay	Class SB	Swimming, fishing, household area	2 mg/L	-	-	4 mg/L	5 mg/L	3 mg/L	4 mg/L	5 mg/L	2 mg/L	22 mg/L	5 mg/L
	3	Paclasan	Class SB	Swimming, fishing, household area	2 mg/L	-	-	4 mg/L	4 mg/L	2 mg/L	4 mg/L	4 mg/L	2 mg/L	4 mg/L	3 mg/L
	4	San Isidro	Class SA	Swimming, fishing, household area	1 mg/L	-	-	3 mg/L	15 mg/L	<1 mg/L	3 mg/L	<1 mg/L	<1 mg/L	11 mg/L	3 mg/L

**SAMPLING STATIONS AND RESULTS OF ANALYSIS – ROXAS, ORIENTAL MINDORO
(MARCH 11 TO 20, 2023)**

Source	Station No.	Station Identification	Classification	Current Beneficial Usage	WQG	Date of Sampling									
						March 11, 2023	March 12, 2023	March 13, 2023	March 14, 2023	March 15, 2023	March 16, 2023	March 17, 2023	March 18, 2023	March 19, 2023	March 20, 2023
Roxas Bay, Roxas, Oriental Mindoro	1	Dalahican	Class SB	Swimming, fishing, with household near the beach front	2 mg/L	2 mg/L	<1 mg/L	22 mg/L							
	2	Dangay	Class SB	Swimming, fishing, household area	2 mg/L	1 mg/L	<1 mg/L	5 mg/L							
	3	Paclasan	Class SB	Swimming, fishing, household area	2 mg/L	3 mg/L	<1 mg/L	12 mg/L							
	4	San Isidro	Class SA	Swimming, fishing, household area	1 mg/L	6 mg/L	<1 mg/L	<1 mg/L							

**SAMPLING STATIONS AND RESULTS OF ANALYSIS - GLORIA, ORIENTAL MINDORO
(MARCH 7 TO 13, 2023)**

Source	Station No.	Station Identification	Classification	Current Beneficial Usage	WQG	Date of Sampling						
						March 7, 2023	March 8, 2023	March 9, 2023	March 10, 2023	March 11, 2023	March 12, 2023	March 13, 2023
Gloria (Coastal Waters), Oriental Mindoro	1	Aglasin (MPA)	Class SB	Marine protected area, swimming	2 mg/L	<1 mg/L	2 mg/L	2 mg/L	19 mg/L	<1 mg/L	51 mg/L	2 mg/L
	2	Maragooc	Class SB	Swimming, fishing	2 mg/L	5 mg/L	2 mg/L	3 mg/L	44 mg/L	1 mg/L	38 mg/L	46 mg/L
	3	Guimbohan	Class SA	Swimming, fishing	1 mg/L	<1 mg/L	1 mg/L	2 mg/L	12 mg/L	1 mg/L	<1 mg/L	35 mg/L
	4	Sta. Theresa (MPA)	Class SA	Marine protected area, swimming, fishing	1 mg/L	15 mg/L	1 mg/L	6 mg/L	45 mg/L	4 mg/L	3 mg/L	6 mg/L
	5	Balete	Class SB	With mangrove area, swimming, fishing	2 mg/L	10 mg/L	4 mg/L	1 mg/L	5 mg/L	5 mg/L	3 mg/L	102 mg/L
	6	San Antonio	Class SB	Swimming, fishing	2 mg/L	12 mg/L	10 mg/L	2 mg/L	3 mg/L	-	<1 mg/L	27 mg/L
	7	Kawit	Class SB	Swimming, fishing	2 mg/L	13 mg/L	6 mg/L	<1 mg/L	8 mg/L	3 mg/L	<1 mg/L	23 mg/L
	8	Tambong	Class SB	Marine protected area, swimming, fishing	2 mg/L	13 mg/L	3 mg/L	2 mg/L	2 mg/L	20 mg/L	10 mg/L	19 mg/L

**SAMPLING STATIONS AND RESULTS OF ANALYSIS – TAYTAY, PALAWAN
AS OF MARCH 11, 2023**

Source	Station No.	Station Identification	Current Beneficial Use	Classification	WQG	Date of Sampling
						March 11, 2023
Casian, Taytay, Palawan	1	Teecas	Tourist area, sanctuary	Class SA	1 mg/L	31 mg/L
	2	Maliao	Fishing, docking of boat, swimming	Class SC	3 mg/L	2 mg/L
	3	Casian Port	Swimming, fishing, tourist area, docking of boat, residential area (20-30 meters away from the beach)	Class SB	2 mg/L	2 mg/L
	4	Amianan	Swimming, fishing, tourist area, docking of boat, residential area (20-30 meters away from the beach)	Class SB	2 mg/L	18 mg/L
	5	Canique	Swimming, fishing, tourist area, docking of boat, residential area (20-30 meters away from the beach)	Class SB	2 mg/L	22 mg/L
	6	Amianan East	Swimming, fishing, tourist area, docking of boat, residential area (20-30 meters away from the beach)	Class SB	2 mg/L	12 mg/L

**Based on the results of the initial water quality sampling conducted on 11 March 2023, the water samples collected at Teecas, Amianan, Canique, and Amianan East, failed to meet the Water Quality Standards as provided for under DENR Administrative Order No. 2016-08.*



MT PRINCESS EMPRESS OIL SPILL INCIDENT
SUMMARY OF ASSISTANCE TO DENR
As of 10 March 2023

MIMAROPA

DONOR	DONOR CONTACT PERSON	CONTACT DETAILS	TOTAL ITEMS / SERVICES DONATED
DMCI Power Corp.	Glenn Nizal		50 pcs Drums
Power One Corporation	Noli Najito		30 pcs Drums
Occidental Mindoro Consolidated Power Corp.			15 pcs Drums
Temasek Foundation through Filinvest Land Inc.	Arch. Noel Advincula - Assistant Vice President, Mr. Rainer Pantua - Senior Manager, Engr. Injing T. Gitalan - Manager	0998-996-2676 and 0916-618-9678	70 Boxes (1000pcs/box) of KN95 mask 5 Boxes (1000pcs/box) of KN95 mask 2 Boxes (1000pcs/box) of KN95 mask
Coral Bay Nickel Mining	Jeb B. Badlon	09173064592	5 boxes of Absorbent Pads
First Gen Corporation			424 pcs Mini Boom Spill 132 pcs Mini Boom Spill 3 packs (100pcs/pack) Oil Sorbent Pads 3 rolls (49m x 0.96m x 0.35cm per roll) Oil Sorbent Rolls 4 pcs Open Top Drums 12 pcs Closed Top Drums 5 boxes (75pcs/box) Heavy-Duty Plastic Bag 45 boxes (20 pcs/box) N95 masks 10 boxes (50 pcs/box) N95 masks 40 pairs Nitrile Gloves 5 boxes (100 pcs/box) Latex Gloves, small 4 boxes (162 bars/box) Hand Soaps
Prime Energy Resources Development	Rowena Inion	09989729033	54 pcs UN Drums (210 Liters) 10 tote tanks (1cum).
First Gen Corporation			Oil Spill Boom Reels (Tank Capacity: 300L) Oil Spill Boom (Inflatable booms in 2 reels) Dispersants 600 Liter

**ANNEX:
WATER AND AIR TESTING, CLEANUP, AND CASH FOR WORK**

As of March 14, 2023

REGION: MIMAROPA

PROVINCE: ORIENTAL MINDORO:

		WATER QUALITY		AIR QUALITY		OIL WASTES		OIL CONTAMINATED WASTES		CASH FOR WORK	
MUNICIPALITY	BRGYS	TEST RESULT mg/L	DATE LAST TESTED	TEST RESULT H2S	DATE LAST TESTED	CUM. VOLUME (LITERS)	CUM. WEIGHT (KILOGRAMS)	CUM. VOLUME (LITERS)	CUM. WEIGHT (KILOGRAMS)	CUM. WORKERS DEPLOYED (CFW ONLY)	FUNDING SOURCE (AGENCY, DONOR)
NAUJAN	1. Estrella	7 mg/L	13 March 2023								
	2. Sta. Cruz	2 mg/L	13 March 2023								
	3. San Jose (Sitio Pitogo)	4 mg/L	13 March 2023								
	4. San Jose (Sitio 1)	14 mg/L	13 March 2023								
	5. Antipolo/San Jose Poper	4 mg/L	13 March 2023								
	6. Brgy. Melgar A/Pitogo Beach	1 mg/L	13 March 2023								
	7. Melgar B/Papangkil Beach	8 mg/L	13 March 2023								
	8. Buloc-Buloc Fish Sanctuary	12 mg/L	13 March 2023								
	9. Montemayor Proper	30 mg/L	13 March 2023								
	10. Masaguing	15 mg/L	13 March 2023								
	11. Tujod Fish Sanctuary	12 mg/L	13 March 2023								

PINAMALAYAN	1. Simborio Fish Sanctuary	60 mg/L	13 March 2023								
	2. Ginapangan Fish Sanctuary	9 mg/L	13 March 2023								
	3. Pili Fish Sanctuary	9 mg/L	13 March 2023								
	4. Ranzo Fish Sanctuary	(no data) broken bottle	13 March 2023								
	5. Marfrancisco	29 mg/L	13 March 2023								
	6. Lumangbayan	(no data) broken bottle	13 March 2023								
TOTAL											
POLA	1. Misong (MPA)	1 mg/L	13 March 2023					6766.6	6089.85		
	2. Central Tagumpay MPA	9 mg/L	13 March 2023					2498.5	2248.56		
	3. Tuguihan MPA	8 mg/L	13 March 2023								
	4. Casiligan River Estuary	5 mg/L	13 March 2023								
	5. Calima MPA	3 mg/L	13 March 2023					4996.8	4,497.12		
	6. Polacay Beach	8 mg/L	13 March 2023								
	7. Casiligan River (Mangrove)	10 mg/L	13 March 2023					416.4	374.76		
	8. Kwebang Tagumpay	4 mg/L	13 March 2023								

	9. Batuhan	-						1665.6	1,499.04		
TOTAL								16,343.9	14,709.51		
BONGABONG	1. Aplaya	9 mg/L	13 March 2023								
	2. Poblacion	2 mg/L	13 March 2023								
	3. Anilao	6mg/L	13 March 2023								
	4. Masaguisi	3 mg/L	13 March 2023								
TOTAL											
ROXAS	1. Dalahican	22 mg/L	13 March 2023								
	2. Tangay	5 mg/L	13 March 2023								
	3. Paclasan	12 mg/L	13 March 2023								
	4. San Isidro	<1 mg/L	13 March 2023								
TOTAL											
GLORIA	1. Aglasin (MPA)	2 mg/L	13 March 2023								
	2. Maragooc	46 mg/L	13 March 2023								
	3. Guimbohan	35 mg/L	13 March 2023								
	4. Sta. Theresa (MPA)	6 mg/L	13 March 2023								
	5. Balete	102 mg/L	13 March 2023								
	6. San Antonio	27 mg/L	13 March 2023								

	7. Kawit	23 mg/L	13 March 2023								
	8. Tambong	19 mg/L	13 March 2023								
TOTAL											
OVERALL -TOTAL											