



ANNUAL ACCOMPLISHMENT REPORT



ABOUT THE REPORT

This is the Annual Accomplishment Report of the Provincial Government - Environment and Natural Resources Office (PG-ENRO) for CY 2022. Anchored in the principles of environmental sustainability, this Report aims to lay out the programs, projects, and activities undertaken by the Office to maintain ecological integrity and ensure responsible utilization of our natural resources in the Province of Bataan.

This Report is aligned with the 2030 Agenda for Sustainable Development. Under the Agenda, 17 Sustainable Development Goals were designed to showcase and address various issues related to development including hunger, gender, and climate change through balancing the three dimensions of sustainable development: the economic, social, and environmental. Building on its strong ties with diverse stakeholders, the PG-ENRO was able to bring about initiatives responsive to the SDGs, thereby successfully contributing to the movement towards the 2030 Agenda for Sustainable Development.

SUSTAINABLE DEVELOPMENT GOALS



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MESSAGE FROM THE OIC—PG-ENRO

The peninsular make-up of Bataan has propelled the province to being one of the major “new normal” economies in Central Luzon. Aside from its strategic location ideal for logistics and industrialization, Bataan is also blessed with natural resources, from its forestlands covering about 57,000 hectares down to its coastline spanning about 188 kilometers.

The Provincial Government of Bataan, as the agency responsible for its territorial jurisdiction, has the responsibility to ensure environmental protection and natural resources conservation alongside social and economic recovery amidst the pandemic, so that Bataño families will continue to derive the various ecosystem services they benefit from, such as agriculture, fisheries, tourism, and a livable environment. This is in line with the vision of the province of quality growth resulting to stable and empowered families—*matatag na pamilyang Bataño*, in a nutshell.

In line with this, the PGB through the PG-ENRO continues to deliver services and implement different initiatives on environmental sustainability. These include its regular programs, such as Provincial Greening Program,

Provincial Environmental Monitoring Program, Integrated Coastal Management Program, Coastal Clean-Up, Support to Community-Based Forest Management (CBFM), and Support to Solid Waste Management. In 2022 special initiatives were also launched, such as the 1Bataan Pawikan Conservation Alliance Network (1PawiCAN), Forest Landscape Restoration (FLR) project, 4K Bamboohay, as well as energy conservation and waste reduction measures among PGB offices.

We at the PG-ENRO are thankful to our stakeholders, who also became our partners in the conduct of said programs, projects, and activities. The support and commitment of people's organizations, academe, private sector, component LGUs, and national government agencies were key in the Provincial Government's accomplishments in the past year. Moving forward, we will strive to forge stronger partnerships and engage more Bataños as we continue our sustainability initiatives here in the province. After all, we all live in the same land, surrounded by the same waters, under the same sky—our beloved peninsula of Bataan.


RAPHAEL C. DE LEON
OIC—PG-ENRO



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MANAGEMENT



Establishment of Forest Landscape Restoration (FLR) Demo-Site: Phase 1

As part of the endeavors of the province in connection with the Greening Program, the establishment of the Forest Landscape Restoration (FLR) Demo Farm served as a showcase for another approach to reforestation. The first phase of this SI involved the identification and evaluation of potential sites. The second phase, the establishment of the demo site, will begin in C.Y. 2023. Lastly, the third phase is the maintenance and protection scheduled for C.Y. 2024.

This year, the Forest Management Section achieved its target to formulate and finalize a draft Memorandum of Agreement (MOA) for the Establishment of FLR Demo-Site in Brgy. Alion, Mariveles, Bataan.

These efforts were coordinated with the Department of Environment and Natural Resources-Community Environment and Natural Resources Office (DENR-CENRO) Bagac and DENR- Provincial Environment and Natural Resources Office (PENRO) Bataan. The identified area for this project is under the Community-Based Forest Management (CBFM) Area of the Alion Upland Farmers' Association (ASFAI).

The next step involves the preparation of technical documents for the establishment of this project and the signing of the MOA.

Establishment and Maintenance of Provincial Plant Nursery

One of the goals of the Provincial Nursery is to be a self-sustaining nursery, where our office will propagate and also provide seedlings for the province of Bataan.

For 2022, the Forest Management Section propagated 19,000 Narra (*Pterocarpus indicus*) and 1,500 Falcata (*Falcataria falcata*) totaling 20,500 seedlings.





Granting of seedlings, seeds, and/or farm inputs

Within the same year, the office was able to distributed 49,560 various seedlings, seeds, and other equipment and tools for farming, such as a wheelbarrow and watering can. Request letters, Requisition and Issue Slip (RIS), and monthly inventory reports are provided for documentation and record-keeping.



SSM Summary for C.Y. 2022

DATE OF VALIDATION	LOCATION	SURVIVAL RATE
Jul 29, 2022	Brgy. Alas-asin, Mariveles, Bataan	84% (Forest and Fruit-bearing) 80% (Bamboo)
Aug 19, 2022	Brgy. Alas-asin, Mariveles, Bataan	80% (Bamboo)
Sep 23, 2022	Brgy. Mabayo, Morong, Bataan	85% (Forest)
Oct 12, 2022	Brgy. Cabcaben, Mariveles, Bataan	90% (Bamboo)
Nov 17, 2022	Brgy. Ibayo, Morong, Bataan	86% (Forest)
Dec 13, 2022	Brgy. Poblacion, Morong, Bataan	76% (Fruit-bearing)

Seedling Survival Monitoring Database (SSMD)

Seven (7) sites were monitored, validated, and uploaded to the Seedling Survival Monitoring Database (SSMD) this year within the Province of Bataan. Shown in the table below are the areas that were monitored and the survival rate of the planted seedling.



Tree Planting Activities

As part of the Provincial Greening Program, the PG-ENRO conducted various planting activities in the province this year, one of which happened during the celebration of the Environment Month in June. A series of planting activities took place in different areas with planting materials such as bamboo, forest trees, fruit-bearing trees, and nipa. In addition, a bamboo planting activity was facilitated by the said office to celebrate the birthday of the Provincial Governor, Hon. Jose Enrique S. Garcia III, with the theme “4K Bamboohay: Kaarawan, Kalikasan, Kaligtasan, Kabuhayan”. Below is the summary of the planting activities that were conducted for C.Y. 2022:

Summary of Planting Activities conducted for C.Y. 2022

DATE OF PLANTING ACTIVITY	LOCATION	NUMBER OF SEEDLINGS PLANTED	TITLE OF ACTIVITY	TYPE OF SEED-LINGS
Jun 8, 2022	Morong, Bataan	1,000	DENR Kick-off	Forest
Jun 10, 2022	Pilar, Bataan	100	Environment Month	Nipa
Jun 10, 2022	Hermosa, Bataan	500	Environment Month	Bamboo
Jun 25, 2022	Limay, Bataan	3,000	Bataan Arbor Day Celebration	Forest
Jul 1, 2022	Limay, Bataan	1,200	Tree Planting Activity	Forest and Fruit-bearing
Jul 8, 2022	Mariveles, Bataan	1,000	Tree Planting Activity	Forest and Fruit-bearing
Jul 15, 2022	Morong, Bataan	1,500	Tree Planting Activity	Forest
Sep 13, 2022	Limay, Bataan	1,200	Bamboo Month	Bamboo
Nov 14, 2022	Abucay, Bataan	200	4K Bamboohay	Bamboo
Dec 6, 2022	Pilar, Bataan	150	Year-end Planting Activity	Bamboo
Total number of Planting Activities				10
Total number of Seedlings Planted				9,850







INTEGRATED COASTAL MANAGEMENT

1Bataan Pawikan Conservation Alliance Network (1PawiCAN)

1PawiCAN strives to be a more inclusive, coordinated, and holistic attempt at pawikan conservation. The process of putting in place necessary governance elements can enable collaboration and convergence of efforts and resources across different agencies and sectors and facilitate stakeholders' participation in the Pawikan Conservation and Protection Program. 1PawiCAN Project has five components:

(1) Formation of 1PawiCAN; (2) Transition Activities for the upgrading of Pawikan Conservation Center; (3) Development of protocol for beach resorts During Nesting and Hatching Season; (4) Training on Proper Pawikan Handling; (5) Pawikan Public Information Campaign; and two additional milestones: (6) Conduct of Night Patrol; and (7) Conduct of Annual Meeting.



(1) Formation of 1PawiCAN. The signing ceremony of the Multiparty Memorandum of Agreement (MOA) for the formation of 1PawiCAN was held last September 15, 2022. 1PawiCAN is a project launched by the Provincial Government of Bataan under the leadership of the Provincial Government-Environment and Natural Resources Office (PG-ENRO) with the aim of strengthening efforts to conserve and protect marine turtles along the coasts of Bataan. Through the Network, it is expected that various stakeholders will work together to focus more on enriching and cascading the right knowledge among tourists and residents about marine turtles found in the province.





Among the signatories were Provincial Governor, Hon. Jose Enrique S. Garcia III, local government representatives of Mariveles, Bagac, Morong and Limay, League of Municipalities of the Philippines-Bataan Chapter, 1st, 2nd, and 3rd Congressional District Offices of Bataan, Department of Environment and Natural Resources Office through the Provincial Environment and Natural Resources Office (DENR-PENRO), Metro Bataan Development Authority (MBDA), Authority of Freeport Area of Bataan (AFAB), the Brgy. Luz and Brgy. Lamao Pawikan Conservation and Protection Group, Pag-Asa Pawikan Protection and Conservation Center Corp., Morong Alliance for Marine Turtle Conservation, Bataan Peninsula State University (BPSU) and Philippine Institute of Environmental Planners (Bataan-Olongapo-Zambales Chapter).

2. Transition activities for the upgrading of Pawikan Conservation Center (PCC). One of the options that the Provincial Government will explore in the future to revamp pawikan conservation efforts in Bataan is the reformation of the existing management structure of the Center. The upgrading will provide access to better pawikan conservation and learning facilities as well as boost the eco-tourism in the Province of Bataan. Transition activities will be carried out the PCC gets turned over to the PGB. These transition activities included the coordination with the Bantay Pawikan, Inc. and appraisal core team for the conduct of an appraisal of the existing structures and equipment at the PCC. The Provincial Engineer's Office conducted a survey in the PCC and submitted an appraisal report dated 14 December 2022 to our office.





(3) Development of protocol for beach resorts during nesting and hatching season. This milestone aimed for the passage of a Provincial Ordinance that will prescribe protocols and guidelines to various sectors located pawikan nesting sites, such as the implementation of curfew hours during nesting and hatching season, and proper handling and releasing of pawikan hatchlings. The project team conducted initial meetings with stakeholders in Morong, Bagac, Limay and Mariveles to present the initial concept of the protocol. Last October 24, 2022, Provincial Ordinance No. 24, Series of 2022 titled “An Ordinance Prescribing Rules and Regulations Governing Marine Turtle (Pawikan) Interaction during Nesting and Hatching Season and the Management of Threats on Nesting Habitats in the Province of Bataan and Providing Penalties for Violation Thereof” was passed and immediately cascaded to the stakeholders, just in time for the pawikan nesting season.



Sangguniang Panlalawigan
BATAAN CAPITOL, BALANGA CITY



**EXCERPT FROM THE MINUTES OF THE 16TH REGULAR
SESSION OF THE SANGGUNIANG PANLALAWIGAN OF BATAAN
ON OCTOBER 24, 2022 HELD AT THE SANGGUNIANG BAYAN
SESSION HALL, ORION, BATAAN**

PRESENT:

Hon. Ma. Cristina M. Garcia, Vice Governor and Presiding Officer

FIRST DISTRICT:

Hon. Antonino B. Roman III, J.D., LL.M., Board Member
Hon. Benjamin C. Serrano, Jr., Board Member
Hon. Jomar L. Gaza J.D., Board Member

SECOND DISTRICT:

Hon. Maria Margarita R. Roque, Board Member
Hon. Manuel N. Beltran, Board Member
Hon. Noel Joseph L. Valdecañas, Board Member

THIRD DISTRICT:

Hon. Romano L. Del Rosario, Board Member
Hon. Angelito M. Sunga, Board Member
Hon. Roman Harold R. Espeleta, Board Member

Hon. Precious D. Manuel, Board Member (SKF President)

ABSENT:

Hon. Jorge S. Estanislao, M.D., Board Member (Sick Leave)
Hon. Jovy Z. Banzon, Board Member (PCL President) (Sick Leave)
Hon. Doroteo M. Austria, Board Member (FABC President) (Sick Leave)

**PROVINCIAL ORDINANCE NO. 24
Series of 2022**

**AN ORDINANCE PRESCRIBING THE RULES AND REGULATIONS
GOVERNING MARINE TURTLE (PAWIKAN) INTERACTION
DURING NESTING AND HATCHING SEASON AND THE
MANAGEMENT OF THREATS ON NESTING HABITATS IN THE
PROVINCE OF BATAAN AND PROVIDING PENALTIES FOR
VIOLATION THEREOF.**

SPONSORED BY:

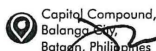
HON. MANUEL N. BELTRAN

WHEREAS, Article II, Section 16 of the 1987 Constitution provides that "The State shall protect and advance the right of the people to a balanced and healthful ecology in accord with the rhythm and harmony of nature";

WHEREAS, Republic Act 9147, known as "Wildlife Conservation and Protection Act of 2001" aims, among others, to conserve and protect wildlife species and their habitats to promote ecological balance and enhance biological diversity;

JOSE ENRIQUE S. GARCIA III
Provincial Governor

"EXCELLENT PUBLIC SERVICE TOWARDS A BETTER QUALITY OF LIFE FOR ALL"

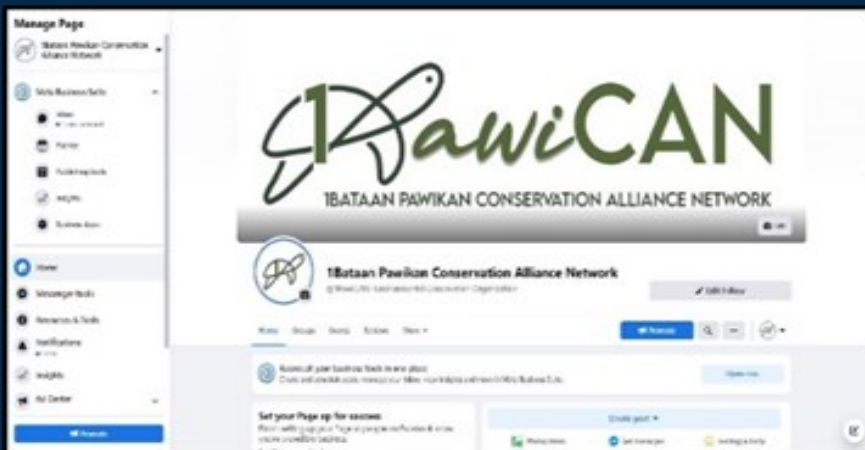


www.facebook.com/1Bataan
www.1Bataan.com www.Bataan.Gov.Ph



(4) Training on proper pawikan handling. The three-day training titled “Capacity Building Workshop for Marine Turtle Conservation in Bataan Province” was held at Brizo Resort, Morong, Bataan last August 24-26, 2022. The training participants included members of People’s Organizations for pawikan conservation, representatives from the Morong Beach Resorts and Tourism Stakeholders Association (MBRTSA), implementing partners from the private sector, National Government Agencies (NGAs), select PGB Offices and the research division of the BPSU.





(5) Pawikan public information campaign. To raise proper knowledge and awareness among locals and tourists, information, education, and communication (IEC) campaign was part of the project. This includes social media posts, radio guesting, the conduct of the Environmental Forum, and the production of IEC materials. The 1Pawican official Facebook Page was created last September 2, 2022 to disseminate information about pawikan and the activities of the Network. On October 6, 2022, Ms. Karen June A. Balbuena, a technical staff of the PG-ENRO, guested on the Central Luzon State University (CLSU) Radio Station to disseminate information about marine turtle conservation. The Environmental Forum, an activity in collaboration with the Provincial Tourism Office, was conducted in select elementary schools in celebration of the Pawikan Festival in the Province.



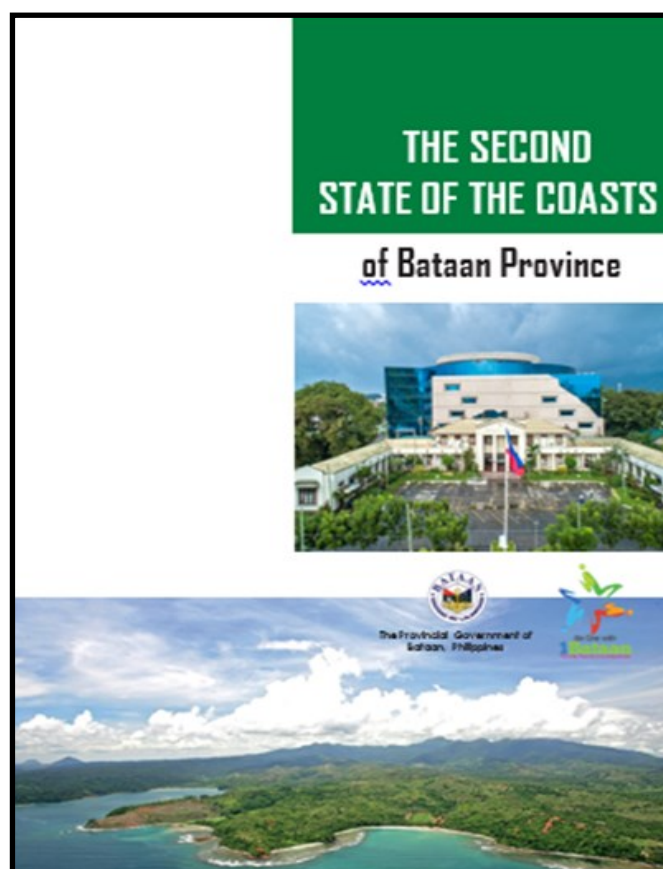


(6) Additional Milestone: Conduct of Night Patrol. A total of two night patrols were conducted by the PG-ENRO. The first night patrol was held at the PCC in Nagbalayong, Morong, Bataan on November 25, 2022. Participants included Brgy. Luz and Brgy. Lamao Pawikan Conservation and Protection Groups. The second one was held at the Pag-Asa Pawikan Protection and Conservation Center, Bagac, Bataan, and participated by the ICHTHUS Society of BPSU-Orani Campus. Night Patrol is one of the activities of the 1PawiCAN that intends to expand the knowledge of the stakeholders on the importance of marine turtles and intensify marine turtle conservation in the Province of Bataan.



(7) Additional Milestone: Conduct of Annual Meeting

The 1PawikanCAN Annual Meeting was conducted at the 4th floor Conference Room of The Bunker on November 23, 2022. The agenda of the said meeting were as follows: 1.) Election of Officers, 2.) Status/ Updates on Pawikan Conservation, 3.) Proposed Work and Financial Plan and 4.) Other matters.



State of the Coasts (SOC) of Bataan Province

One of the major accomplishments of the Integrated Coastal Management Division of PG-ENRO is the drafting of the 2nd State of the Coasts Report of Bataan Province. The SOC reporting system consolidates information coming from administrative, social, economic and environmental sectors. The updating of the SOC Report is necessary in order to review the scope of the ICM program in Bataan Province and assess the extent and effectiveness status of the area and determine the driving forces of change. The SOC report is updated periodically preferably in line with the planning cycle of the local government.

The ICM staff assessed the availability and accessibility of relevant data for inclusion in the

drafting of the 2nd SOC Report. Data gathering to fulfill the requirements for the SOC indicators was done through the help of different government agencies (e.g planning, environment, health, waterworks and sanitation, fishery, agriculture, engineering, disaster) non-government organizations, academe, private sector, civil society groups and people's organizations known to be repositories of data information as outlined in the SOC template.

The implications and recommendations for the governance and sustainable development indicators of the SOC were also undertaken for the continual improvement of the SOC reporting system in support of sustainable development of coastal and marine resources in the area.

International Coastal Clean-up

The International Coastal Clean-up (ICC) is an initiative of the Center for Marine Conservation (CMC), a non-profit, non-government organization (NGO) based in Washington D.C., USA. It is observed every third Saturday of September in over 100 countries including the Philippines and in 36 U.S. states. In the Philippines, the activity started in 1994 and is being organized by the International Marine Alliance-Philippines (IMA). IMA is a non-profit NGO whose missions are to conserve marine biodiversity, protect marine environments, and promote sustainable use of marine resources for the benefit of local people.

Since 1999, Bataan province responded to the call for international coastal cleanup. This is very timely considering that the province is moving towards being a new frontier of socio-economic development. Furthermore, the province has an extensive coastline subjected to various refuse, especially on the Manila Bayside. The Bay itself is considered a pollution hotspot in the East Asian Seas region.



#ICC2022



Organizational Meetings through Zoom

To prepare for the International Coastal Clean-up Day 2022 with the theme “Fighting for Trash- Free Seas, Pilipinas: Ending the Flow of Trash at the Source”, the Provincial Government of Bataan through the PG-ENRO conducted a virtual meeting through Zoom (See figure xx) last August 16, 2022. Eleven municipalities and one city attended the meeting with DENR and CENROs.

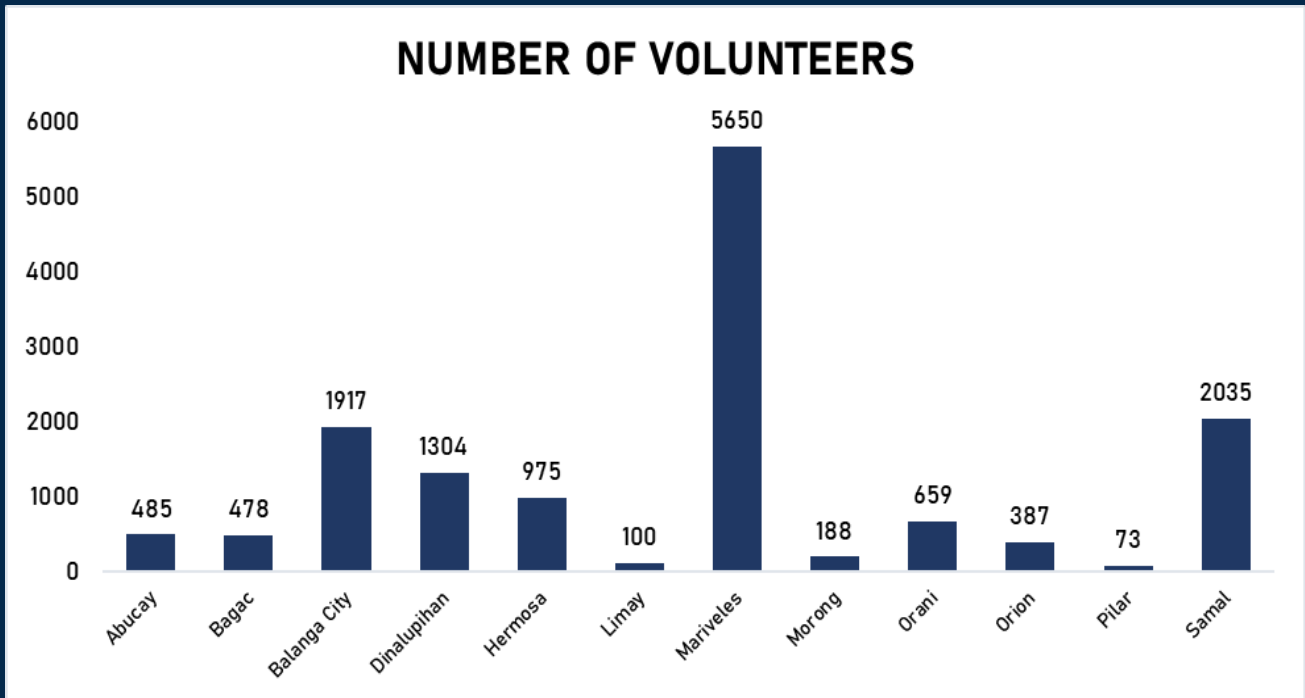


Results

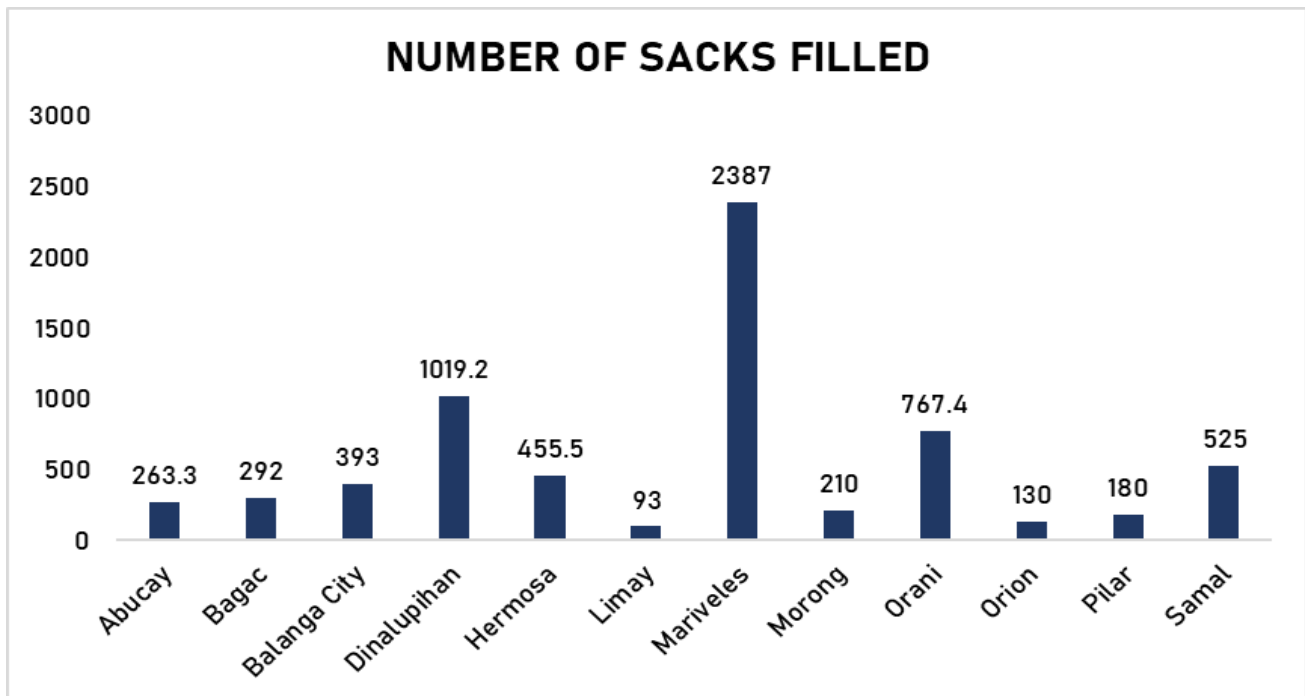
Fourteen thousand two hundred fifty-one (14,251) volunteers participated in the conduct of coastal clean-up activity for the whole province and collected a total of six thousand fifteen (6,715.4) sacks of trash weighing a total of seventy-nine thousand eight hundred twenty-two (79,822) kilograms. The total estimated distance cleaned was two hundred seventy-six point fifty-four (276.54) kilometers. Volunteers cleaned the different types of environments including in-land, coastal, and freshwater.

Bataan ICC 2022 Summary Results

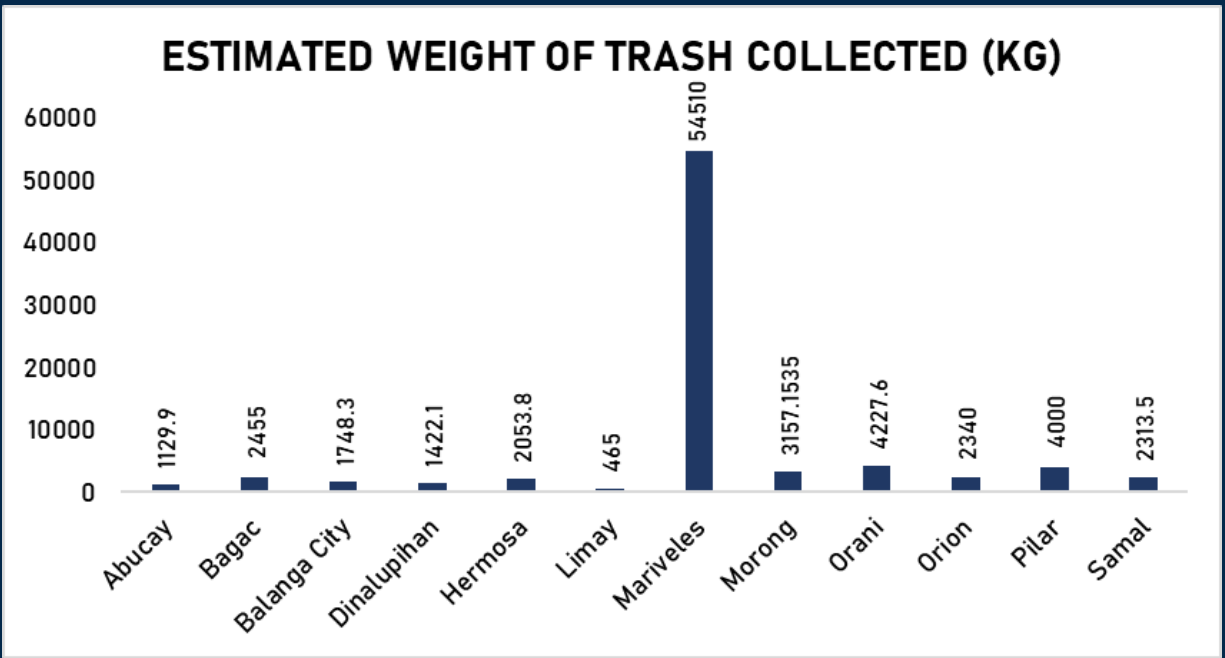
OFFICE/LGU	NUMBER OF VOLUNTEERS	NUMBER OF SACKS FILLED	ESTIMATED WEIGHT OF TRASH COLLECTED (KG)	ESTIMATED DISTANCE CLEANED (KM)
Abucay	485	263.3	1129.9	23.32
Bagac	478	292	2455	2.2
Balanga City	1917	393	1748.3	21.35
Dinalupihan	1304	1019.2	1422.1	103.81
Hermosa	975	455.5	2053.8	44.85
Limay	100	93	465	1.13
Mariveles	5650	2387	54510	35
Morong	188	210	3157.1535	21
Orani	659	767.4	4227.6	10
Orion	387	130	2340	7.3
Pilar	73	180	4000	0.85
Samal	2035	525	2313.5	5.73
TOTAL	14251	6715.4	79822.3535	276.54



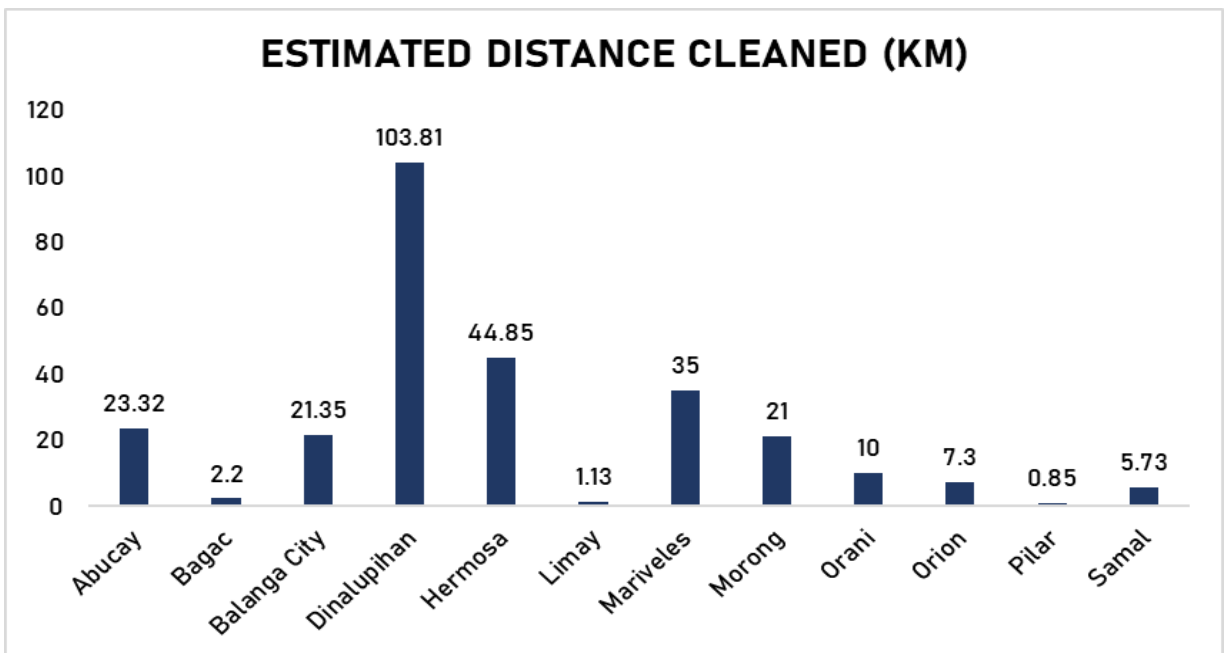
The total number of volunteers who participated in the coastal clean-up activity per municipality/City.



The total number of sacks filled per municipality/city.



Total estimated weight of trash collected (kg) permunicipality/ city.



Total estimated distance cleaned per municipality/city.



Mangrove Rehabilitation and Ecotourism Project

In 2022, the PG ENRO-ICM Section together with the GNPowder Mariveles Energy Center Ltd. Co. (GMEC) conceptualized a project on the “Improvement of Orani Coastal and Marine Biodiversity (Mangrove Nursery Establishment, Mangrove Reforestation and Improvement of Carbon Sequestration at Tubo Tubo Island, Orani, Bataan). A series of meetings was conducted together with the People’s Organization at Tubo Tubo Island and the LGU Orani. A project proposal was drafted by the ICM section of the PG-ENRO and presented to all the stakeholders.

Later on, a Memorandum of Agreement was drafted among the Provincial Government of Bataan, Municipality of Orani, DENR-PENRO, GMEC and the Tubo Tubo Fisherfolks for the implementation of the project.

However, during the final meeting, the DENR-PENRO decided to postpone the implementation of the project due to some technical problems at the project site.

In the Cash for Work Program implemented by the Provincial Social Welfare Development Office (PSWDO) together with the Provincial Disaster Risk Reduction and Management Office (PDRRMO) and the PG-ENRO, a total of P210,000 was allocated for the the propagules planted by the Climate Change Adaptation and Mitigation (CCAM) beneficiaries. Mangrove planting was done in Orani where a total of 42,000 Propagules and 3,000 seedlings were planted. The LGU Orani, its beneficiaries and some stakeholders actively took part in the implementation of the program.



To rehabilitate some of the mangrove sites, planting activities were done in the municipalities of Abucay, Pilar, Orion, and Limay in May. While funded and implemented by the PDRMO, full assistance was provided by the PG-ENRO, LGUs, and other stakeholders like the Philippine National Police (PNP), PGB employees, other government offices and NGOs and the People's Organizations in each municipality.

For the repair of the Mangrove Eco-Tourism Site in Brgy. Camachile, Orion, Bataan, the Philippine Resins Industries Inc. funded and released a total amount of Php 288,000 last October to replace the bamboos with concrete as the latter is more than durable and likely to last for a long time. As of December 31, 2022, almost 50% of the construction was made and the rest is expected to be completed by 2023.





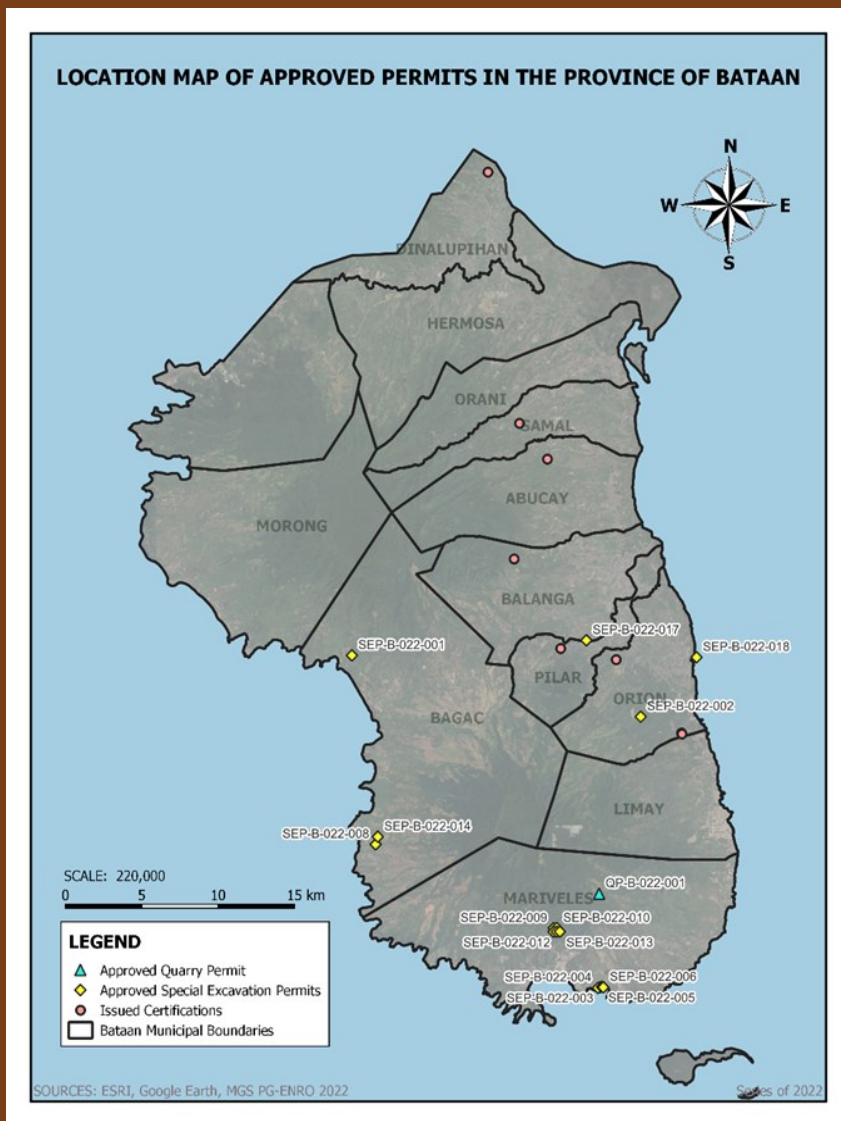
MINES & GEOSCIENCES



MINING ACT COMPLIANCE

In support to the implementation of the Philippine Mining Act of 1995, also known as R.A. 7942, and its implementing rules and regulations, the PG-ENRO ensures regular monitoring of the ongoing progress and environmental rules compliance of permitted land development projects in the province. Applications for certifications, special excavation permits for area development, and quarrying are processed and screened by its Mines and Geosciences Section.

The PG-ENRO aims to promote and encourage responsible development including but not limited to exploration and excavations as long as proper environmental protection measures are observed. For CY 2022, the office has monitored a total of twenty-nine (29) area development and three (3) river desilting projects. During the first semester, five (5) quarry areas were monitored whereas only four (4) were visited during the second semester.

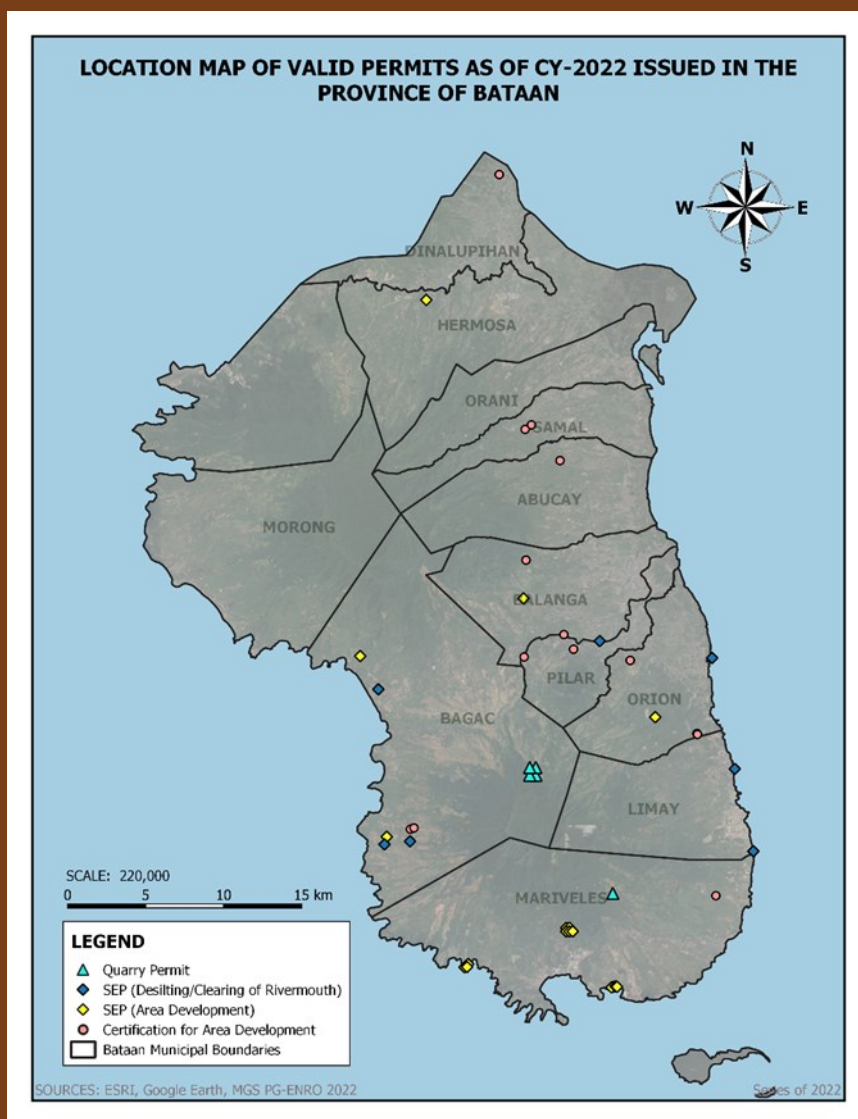


Location map showing the approved permits and certifications for CY 2022

New permits and certifications were also issued after the assessment of each applications and requests, respectively. For 2022, 23 certifications allowing the simple developments within private lands in preparation for various future uses such as residential, industrial, or agricultural areas. Fifteen (15) special excavation permits for area developments were also issued. Through the assistance of the Provincial Mining Regulatory Board (PMRB) of Bataan, one quarry permit application located in the municipality of Mariveles was also approved.

Despite the aim of the PGB to encourage developments in the province, assessments of the proposed projects were also vital in the decision making for the approval of permits or any related documents. Unfortunately, two (2) special excavation permit applications were denied. The proponents may re-apply however, recommendations and suggestions given to them should reflect on their improved program of works.

Validity of the issued certifications or permits, whichever may apply, varies depending on the scale of the project and its intended purpose. The map below shows the summary of the existing permits and certifications in the province. Some of the permit areas are tagged as inactive due to various reasons. Regardless of their status, regular monitoring are still being conducted with the active permit areas prioritized. Aside from the compliance with the environmental laws and regulations set by their respective permits, the office also assess any potential adverse impacts to the community. Operation within permitted areas with received complaints are put on hold temporarily until the issue has been resolved.

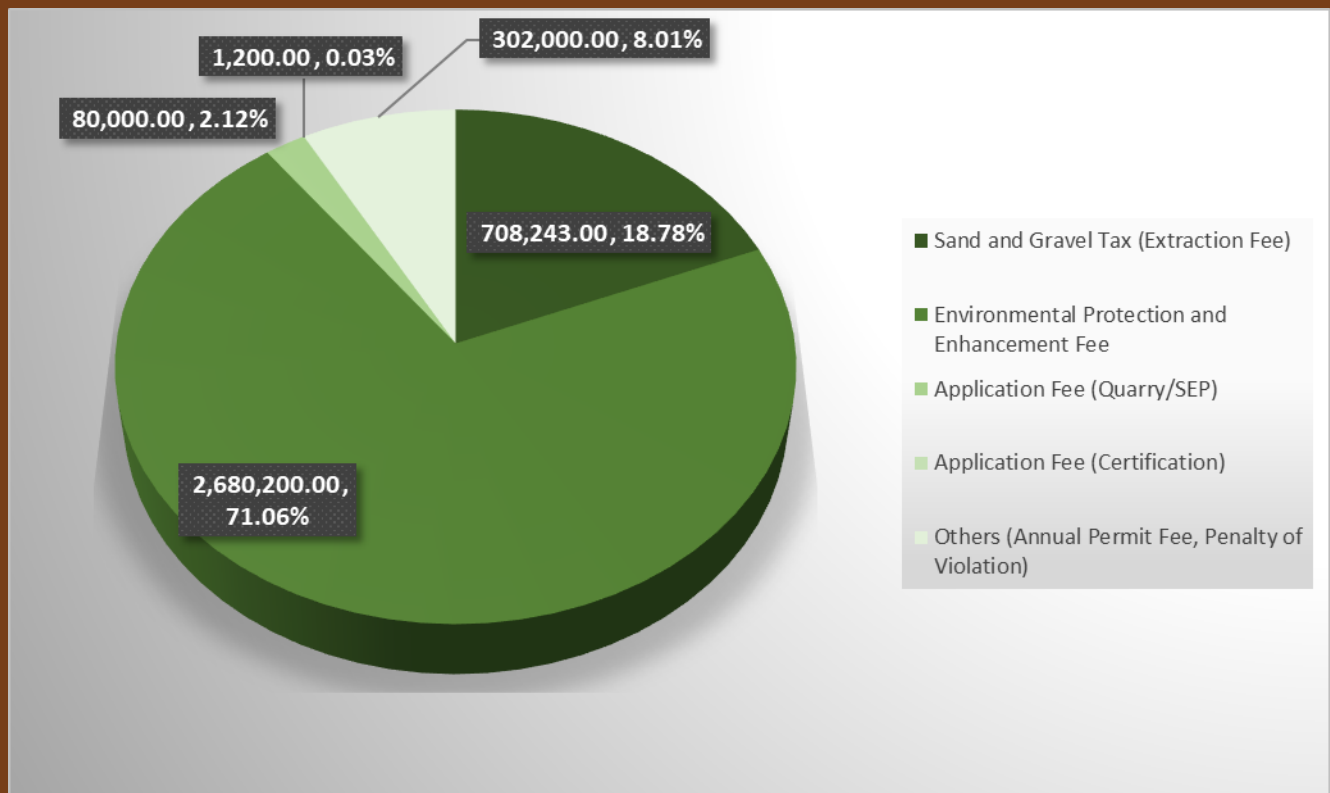


Valid permits in the Province of Bataan as of December 2022



SMALL-SCALE QUARRYING PERMIT

Majority of the land developments in the Province of Bataan entail extraction of materials which comprise of either overburden, common barrow, unconsolidated loose materials, and/or boulders. Following the provisions set by People's Small Scale Mining Act of 1991, or the RA 7076, along with the Local Government Code, Philippine Revenue Code, and the Bataan Environment Code, the PGB is hereby authorized to charge associated fees from the extraction and commercialization of materials for the protection of the environment and adjacent communities.



Breakdown of collections per category

For calendar year 2022, a total of Php 3, 771, 643.00 was collected from the projects within Bataan. during the first semester alone, 3, 007, 501.00 was generated and a significant percentage of the aforementioned revenue originated from the annual fixed tax of the operational crushing and batching plants in the province. Second semester garnered 764, 142.00 from the extractions of boulders and common barrows within project areas.





PROVINCIAL MINING REGULATORY BOARD (PMRB)

With the activation and mobilization of the Bataan Provincial Mining Regulatory Board (PMRB) through an interim, the PGB through its ENRO is designated as the Secretariat. The Board works together with the PGB in the approval of mining related permits by functioning as the body responsible for the thorough evaluation and screening of project applications.

Through the three (3) conducted regular meetings, one quarry permit was endorsed by the Board to and approved by the Provincial Governor. Updating of the general status of the project areas are the usual agenda of the regular meetings and due to the change of administration last May to June, the second and third quarterly meetings were conjoined. Special meetings were dedicated to address issues and immediate concerns that affect the application progress of proponents and/or operation of the permittees.

ENVIRONMENT CODE REVISION

In pursuit of continuous improvement and better management of the resources of the Province of Bataan, the PGB through its EN-RO passed the Environment Code in 2019. As any law, revisions are deemed necessary after encountering various situations. To improve the monitoring and regulation of the permits and developments in the province, certain clauses of the Environment Code were subject for revision. The PG-ENRO partnered with the Provincial Legal Office and the Sangguniang Panlalawigan in improving the clauses covering the types of permits, their classifications, required documents, and fees. The revision generally aims to re-align the classification scheme to be used for the segregation of permits to be applied which is beneficial not only to the proponents but also to the monitoring body.

The proposed revision also included the formulation of a Provincial Anti-Illegal Quarrying and Excavation Task Force composed of several representatives from the provincial and local government units, as well as private institutions such as the trucker's association or any equivalent entity. Its establishment shall aid the PG ENRO in more effectively monitoring all permit areas in the province and regulate the utilization of the land and mineral resources of Bataan.

Should the proposed revisions be approved, changes in the classification of appropriate permit to be applied will transpire and it is projected to result in better program implementation and more effective monitoring along with more sustainable developments in the areas of interest.



ENVIRONMENTAL MANAGEMENT



Solid Waste Management (SWM)

For the year 2022, status quo is maintained on waste collection and street sweeping within the Provincial Capitol Compound. As part of its assistance to the pandemic response, PG-ENRO also continues to facilitate the contracting of hauling of hazardous waste from the Provincial Health Office and District Hospitals. In recognition of its effort, PG-ENRO was awarded as the “Most Outstanding Province in implementation of Ecological Solid Waste Management by the DENR-EMB Region 3.



B.Y.O.B sa Bunker



PG-ENRO implemented policies that focus on waste prevention and reduction of solid waste which are higher on the hierarchy of SWM alternatives. On the PGB level, “Bring-Your-Own-Baunan” was implemented which gave incentives such as discounts for employees that will bring their own food containers to be used in Bunker’s cafeterias and pantries. Specified unnecessary single-use plastics were also prohibited entry inside the Bunker.



Talisay River Task Force

Talisay River Task Force was established under Executive Order No. 66, Series of 2022, deputizing consolidated manpower from the Provincial Government of Bataan (PGB) and the local government units (LGUs) of Pilar and Balanga City to penalize violators caught littering along and near Talisay River.



HUWAG MAGTAPON NG BASURA SA TALISAY RIVER

AMENDED PROVINCIAL ORDINANCE NO. 3 SERIES OF 2019 BATAAN ENVIRONMENT CODE

**MULTA
PARUSA**

FIRST OFFENSE: P1,000.00 0 40 HOURS OF COMMUNITY SERVICE
SECOND OFFENSE: P3,000.00 0 80 HOURS OF COMMUNITY SERVICE
THIRD & SUCCEEDING OFFENSE: P5,000.00 0 120 HOURS OF COMMUNITY SERVICE

PG-ENRD | CITY OF BALANGA | MUNICIPALITY OF PILAR



ENVIRONMENTAL MANAGEMENT | WHIRLWIND



Republic of the Philippines
Province of Bataan
OFFICE OF THE PROVINCIAL GOVERNOR
Bataan Provincial Capitol



EXECUTIVE ORDER NO. 66
Series of 2022

CREATING THE TALISAY RIVER PROVINCIAL TASK FORCE, DEFINING ITS COMPOSITION, POWERS, AND FUNCTIONS, AND FOR OTHER PURPOSES, TO EFFECTIVELY IMPLEMENT THE RELEVANT PROVISIONS OF THE BATAAN ENVIRONMENT CODE AND THE TALISAY RIVER REHABILITATION ORDINANCE OF THE CITY OF BALANGA AND MUNICIPALITY OF PILAR, BATAAN

WHEREAS, Article II, Sections 15 and 16 of the Constitution provide that the State shall protect and promote the right of the people as well as their right to a healthful and balanced ecology in accord with the rhythm and harmony of nature;

WHEREAS, pursuant to Republic Act No. 7160 (Local Government Code of 1991), Republic Act 9003 (Ecological Solid Waste Management Act of 2000), Republic Act No. 9275 (Philippine Clean Water Act), and Presidential Decree No. 1067 (Water Code of the Philippines), it is declared the policy of the State to ensure the protection of public health and environment;

WHEREAS, the continuing Supreme Court Mandamus on Manila Bay Clean-Up and Rehabilitation specifically identifies the Talisay River within the territorial jurisdiction of the City of Balanga and Municipality of Pilar, Province of Bataan as a major tributary to the Manila Bay;

WHEREAS, the Sangguniang Bayan of Pilar and Sangguniang Panlungsod of Balanga City jointly passed Ordinance No. 6-2008, otherwise known as the Talisay River Rehabilitation Ordinance, which shall include and encompass all acts and omissions in and along the Talisay River that is within the territorial jurisdiction of these two LGUs;

WHEREAS, Sections 4 and 5 of the Talisay River Rehabilitation Ordinance prohibits and penalizes the dumping of garbage and waste materials and other similar activities in the Talisay River;

WHEREAS, Sections 69 and 70 of Provincial Ordinance No. 03, series of 2019, otherwise known as the Bataan Environment Code, prohibits and penalizes the littering, throwing, and dumping of waste matters in public places, such as roads, sidewalks, canals, esteros or parks, and establishment, or causing or permitting the same, among other acts;

WHEREAS, pursuant to Section 2 of Executive Order No. 136, series of 2021, the Provincial Solid Waste Management Board (PSWMB) of the Province of Bataan shall provide necessary logistical support to its component city and municipalities, and allow for the clustering of LGUs for the solution of common solid waste management problems;

NOW THEREFORE I, ALBERT S. GARCIA, as the Chief Executive of the Province of Bataan, by virtue of the powers vested in me by law, do hereby create the Talisay River Provincial Task Force and define its composition, powers, and functions.

Section 1. Composition. The Talisay River Provincial Task Force shall be composed of the following:

Chairperson:	Provincial Government – Environment and Natural Resources Office
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"EXCELLENT PUBLIC SERVICE TOWARDS A BETTER QUALITY OF LIFE FOR ALL"

Capitol Compound,
Balanga City,
Bataan, Philippines



(63) 047 613-0991

E-mail: govoffice@bataan.gov.ph/pgo@bataan.gov.ph

www.facebook.com/1Bataan
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Provincial SWM Board Meetings

In terms of compliance to Republic Act No. 9003 or the Ecological Solid Waste Management Act of 2000, the PGB and all component LGUs already have their approved 10-Year SWM Plans. Concerns and developments are regularly monitored by the province by means of quarterly Provincial SWM Board meetings.

City/Municipality	Location	Time	Agenda	Remarks
San Jose del Monte	San Jose del Monte City Hall	8:30	1. Opening Prayer 2. Pledge of Allegiance 3. Approval of Agenda	
San Jose del Monte	San Jose del Monte City Hall	9:00	4. Presentation of the 10-Year SWM Plan 5. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	10:00	6. Presentation of the 10-Year SWM Plan 7. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	11:00	8. Presentation of the 10-Year SWM Plan 9. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	12:00	10. Presentation of the 10-Year SWM Plan 11. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	1:00	12. Presentation of the 10-Year SWM Plan 13. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	2:00	14. Presentation of the 10-Year SWM Plan 15. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	3:00	16. Presentation of the 10-Year SWM Plan 17. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	4:00	18. Presentation of the 10-Year SWM Plan 19. Discussion and Deliberation	
San Jose del Monte	San Jose del Monte City Hall	5:00	20. Presentation of the 10-Year SWM Plan 21. Discussion and Deliberation	



Environmental Compliance Monitoring

In C.Y. 2022, the PG-ENRO continued its mandate and function of ensuring the implementation of relevant environmental laws and ordinances by monitoring the compliance of relevant stakeholders, as well as monitoring of ambient air and water quality in the province.

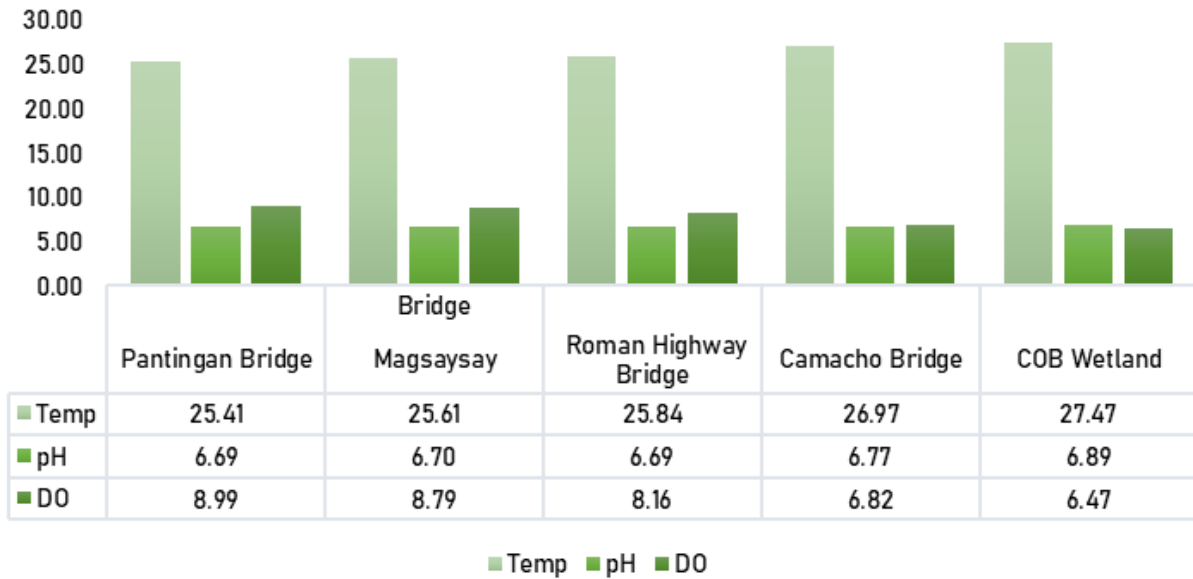
As part of the office's Provincial Environmental Monitoring Program, the water quality of the Talisay River and Orani River was regularly monitored. These are the two major rivers contributing to the water quality of Manila Bay. Monitoring results show that overall, the water quality of Talisay and Orani Rivers remains to be within Class C, or suitable for agricultural purposes, based on water quality standards prescribed by DENR Administrative Order No. 2016-08.

However, looking at individual parameters, one finding of the water quality monitoring is that the downstream portion of the Talisay River has low dissolved oxygen (DO) and failed to comply with the minimum Class C Standard of 5 mg/L for the month of July. For the Orani River's downstream, it has failed to comply for two (2) out of five (5) recorded months. As the temperature is associated with DO, the possible cause of monitored low DO is the high temperature recorded during those quarters. Another could be the excessive algae growth in the water.

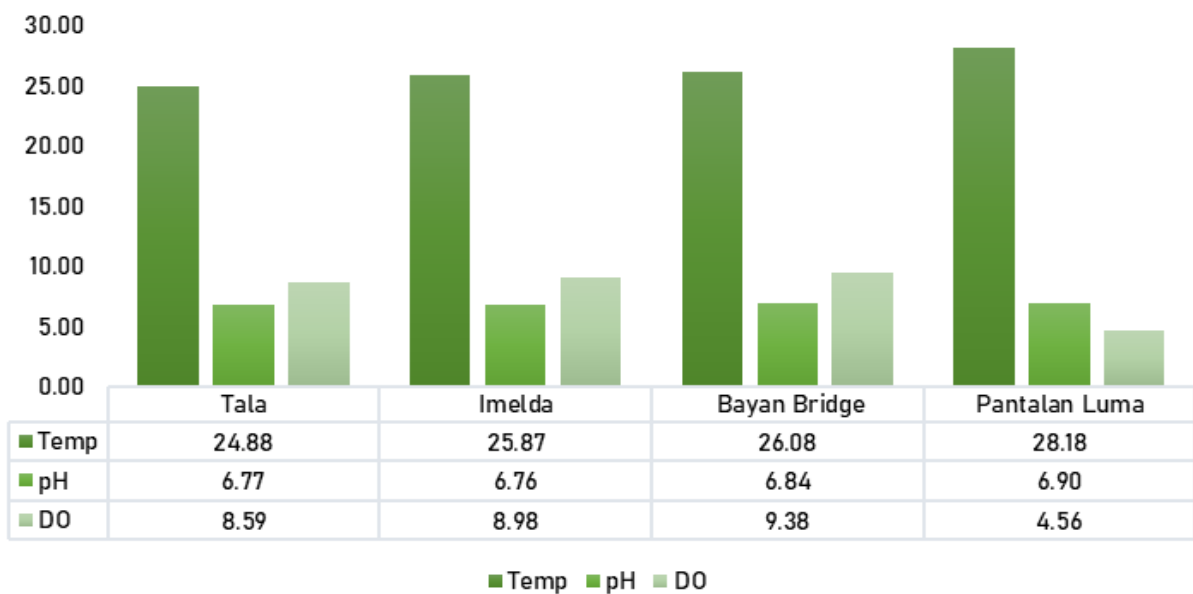
Despite having favorable result, it is still recommended that the concerned LGUs continue the monitoring of all activities occurring in the river network as well as establishing regulations on the wastewater/septage management systems of household and commercial establishments near or along the riverbanks, particularly the downstream portion of the river.



Talisay River, 2022



Orani River, 2022





Pantalan Luma, Orani, 2113, Bataan, Philippines			
Latitude	14.7992N	Longitude	120.5442E
Local	10:16:19 AM	Altitude	6.5 meters
GMT	02:16:19 AM	Date	Thursday, 07/21/2022
Note: Water Quality Monitoring Orani River			



Puerto Rivas, 2100, Philippines			
Latitude	14.693227 N	Longitude	120.563836 E
Local	09:16:30 AM	Altitude	3.4 meters
GMT	01:16:30 AM	Date	Friday, 05/27/2022
Note: Water Quality Monitoring Talisay River			

Ambient Air Quality Monitoring System was not able to retrieve reliable data for this year and is under repair and maintenance. PG-ENRO is looking into new technology such as subscription-based air quality sensing which can provide continuous and reliable data for a much lower cost.



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CEC

The PG-ENRO also issues Certificate of Environmental Compliance (CEC) to poultry farms and piggeries, as part of their compliance with Provincial Ordinance No. 3, Series of 2019 or the Bataan Environment Code; and Provincial Ordinance No. 8, series of 2019 or the Revised Ordinance Regulating the Operation of Piggeries, Poultry Farms and Other Livestock Raising Entities in the Province of Bataan. For CY 2022, this office was able to evaluate, process, and issue CECs to 53 compliant poultry and livestock farms in the province.



Carbon Neutral Bunker

In line with the long-term goal of making Bataan the first carbon neutral province in the Philippines, one of the initial objectives targeted by the Provincial Government includes transitioning the Bunker into an entity with low carbon operations.

In conducting an Entity-Level Greenhouse Gas (GHG) Emissions Inventory for C.Y. 2021, activity data including electricity consumption and fuel consumption were obtained from the Bunker Property Management Office and the Provincial Engineer's Office respectively. However, data on fuel consumption was not disaggregated and only reflected diesel consumption for mobile combustion. Using the basic formula of activity data multiplied by the emission factor and global warming potential, the total GHG emissions were calculated.

Emissions Quantification

Scope 1 Emissions

Category	Fuel Used	Total Fuel Amount (liters)	GHG Emissions			
			CO ₂	CH ₄	N ₂ O	Total GHG Emissions
			(metric tons)	(tCO ₂ e)	(tCO ₂ e)	(tCO ₂ e)
Mobile Combustion	Diesel	161,298.26	437.54	0.48	7.14	445.16
	Total (metric tons CO ₂ e)		437.54	0.48	7.14	<u>445.16</u>

Scope 2 Emissions

Facility/Source Description	Annual Electricity, Heat or Steam Purchased (MWh)	Total CO ₂ Emissions (metric tons)
The Bunker	1,463	958.34
Total (metric tons CO ₂)		958.34

Total Emissions by Scope

Scope / Category	GHG Emissions (metric tons CO ₂ e)
Scope 1	
<i>Mobile Combustion</i>	445.16
Scope 2	
<i>Purchased Electricity</i>	958.34
TOTAL EMISSIONS (metric tons CO ₂ e)	<u>1,403.5</u>

Sustainable Solutions:

Greenhouse Gas Management Plan for The Bunker



by the Provincial Government Environment and Natural Resources Office

Based on the results of the said emissions inventory, a GHG Management Plan was formulated in September. The said Plan contained strategies that would help manage and significantly reduce GHG emissions at the Bunker focusing on energy efficiency and conservation, trip optimization, waste minimization, proper waste handling, and awareness raising. Following a series of dialogues with the Provincial Administrator and Bunker Property Management Office, the Bataan Provincial Compound Energy Conservation Policy was issued and posted online in November, serving as guide for offices and departments at the Bunker to observe energy conservation measures.

Bataan Electric Public Utility Vehicle Program

The Pre-Feasibility Study on the Deployment of E-Jeepneys and E-Buses in Bataan was completed by the pManifold Business Solutions Pvt. Ltd. (pManifold) and the Global Green Growth Institute (GGGI) in May 2021. Prior to its submission, a Workshop and Technical Advisory among select stakeholders was held on April 25, 2022 with guests from the Land Transporta-

tion Franchising and Regulatory Board, Landbank of the Philippines, and Development Bank of the Philippines. Initial results of the Study were discussed in the morning while options for financing specifically loan programs were presented in the afternoon by speakers from the banking institutions.



On September 9, 2022, the Global Management Team of GGGI paid a courtesy visit to Governor Garcia. Among the delegates were Ms. Helena McLeod, Deputy Director-General, Ms. Achala Abeysinghe, Asia Regional Director and Head of Programs, and Mr. Juhern Kim, Philippine Country Representative. Governor Garcia delivered his keynote address and expressed his

gratitude to the organization for their long-standing partnership while OIC-PG-ENRO De Leon presented the updates on the Bataan Electric Public Utility Vehicle Program. GGGI's top officials also gave their messages and ensured their continued support to the province's pursuit of carbon neutrality.

Environment Month Celebration



LINEUP OF ACTIVITIES

Bamboo Planting

Arbor Day Tree Planting

Coastal Clean-Up

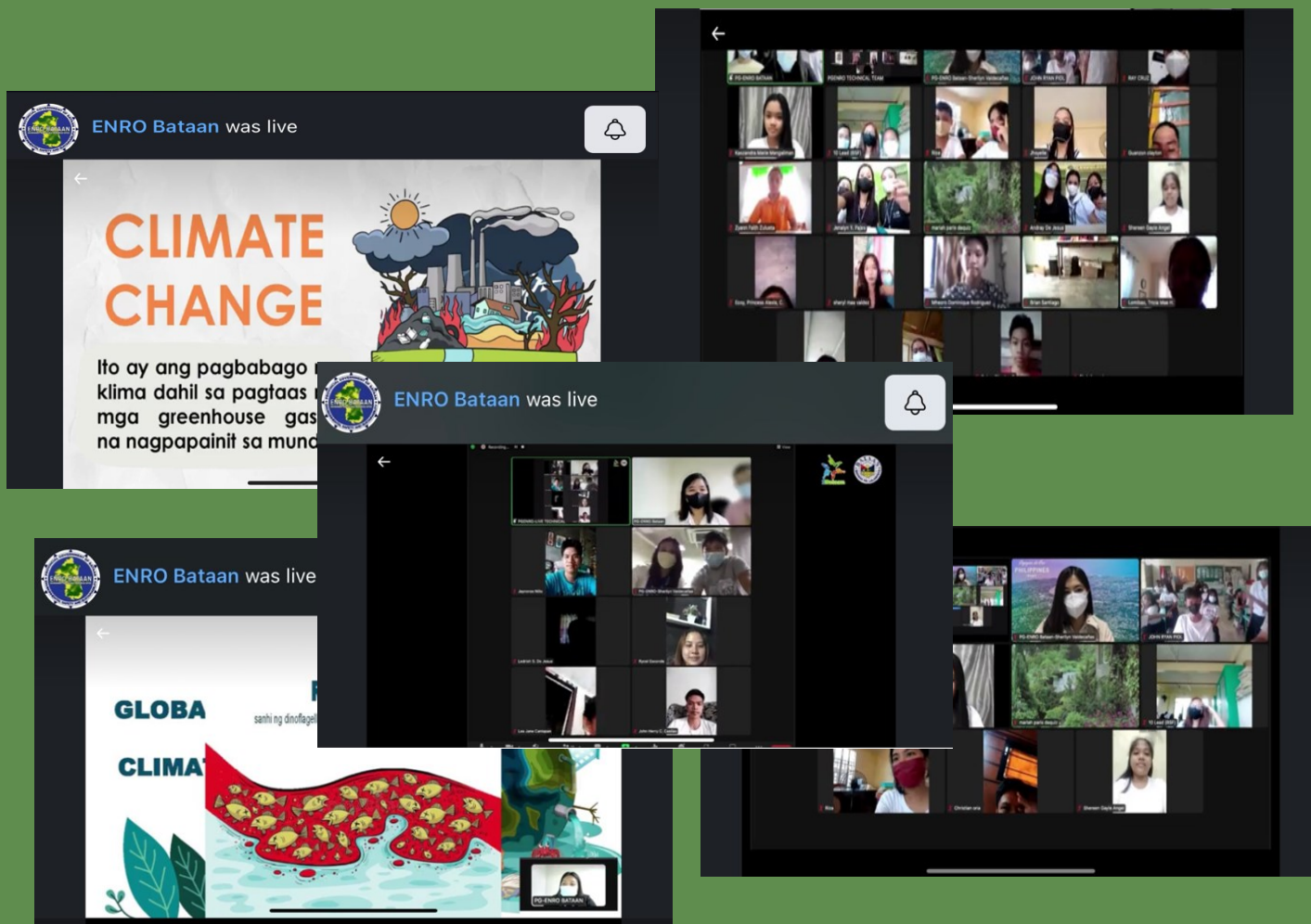
Webinar Series

Cascading of CDRA

B.Y.O.B. sa Bunker

Nipa/Sasa Planting





Webinar Series

“Aksyon Para sa Natatanging Mundo” was a webinar series led by the PG-ENRO via Zoom and Facebook live. Each webinar tackled a main environmental topic and featured a question -and-answer game with prizes sent to winners via Gcash. The topics and participants included the following:

Week 1, June 8: Webinar on Climate Change and Solid Waste Management

Participants: Grades 4 to 6 Students

Week 2, June 15: Webinar on Climate Change and Biodiversity

Participants: Junior High Students

Week 3, June 22: Webinar on Climate Change and Forest Management

Participants: Senior High Students



Coastal Cleanup

In the third week of the celebration of the Philippine Environment Month, the PG-ENRO in partnership with LGUMorong led a coastal cleanup activity at Barangay Sabang, Morong, Bataan on the morning of June 17, 2022.

About two hundred participants and stakeholders took part in the activity including representatives from the SAGIP Pawikan Sitio Fuerte, Pawikan sa Damara Association, ICHTHUS Society of the Bataan Peninsula State University, Anvaya Cove Beach and Nature Club, Philippine Coast Guard, Philippine National Police, Bataan District Jail, Bureau of Jail Management and Penology, Bureau of Fire Protection, Morong Multi Purpose Coop, as well as local residents in the area.

A simultaneous coastal cleanup activity was conducted by members of the Morong Beach Resort and Tourism Stakeholders Association in their respective beach-fronts. Based on the numbers tallied from the data cards, a total of forty-three (43) sacks of trash were filled during the cleanup and brought to the materials recovery facility.

As an extension of the Bring Your Own Baunan (BYOB) initiative at the Bunker, participants brought their own reusable containers or “baunan” to partake of the snacks provided by the Anvaya Cove Beach and Nature Club.







Orientation on Climate and Disaster Risk Assessment (CDRA) for the Environment and Youth Sectors in the Province of Bataan

In partnership with the PDRRMO, an Orientation on Climate and Disaster Risk Assessment (CDRA) for the Environment and Youth Sectors in the Province of Bataan was facilitated by the PG-ENRO at the Patio Isadora of Lou-is Resort and Restaurant on June 29, 2022. In the event, representatives from the National Resilience Council (NRC) and the PPDO laid down the results of the CDRA of the province among the following stakeholders belonging to the environment and youth sectors:

- City and Municipal LGUs:
 - Sangguniang Panlungsod/Bayan Committee on Environment
 - City/Municipal Environment and Natural Resources Office
 - City/Municipal Disaster Risk Reduction and Management Office
 - City/Municipal Agriculture Office
 - City/Municipal Planning and Development Office
 - City/Municipal Engineer's Office
- Sangguniang Kabataan Federated Officers
- Bataan Peninsula State University



Bamboo Planting at Bamban, Hermosa





13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



Nipa Planting at Balanga City and Pilar, Bataan