



Republic of the Philippines  
Department of Environment and Natural Resources  
**Provincial Environment and Natural Resources Office**  
**MIMAROPA Region**

Bgy. Sta. Monica, Puerto Princesa City, Palawan

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Telfax No. (048) 433-5638 / (048) 433-5638

September 30, 2022

**MEMORANDUM**

**FOR :** The Regional Executive Director  
DENR MIMAROPA  
1515 L&S Bldg., Roxas Blvd.  
Ermita, Manila

**THRU :** The OIC, Assistant Regional Director for Technical Services

**FROM :** The Provincial Environment and  
Natural Resources Officer

**SUBJECT :** **2<sup>ND</sup> SEMESTER REPORT ON BIODIVERSITY MONITORING  
SYSTEM (BMS) OF MALAMPAYA SOUND PROTECTED  
LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN  
VICENTE, PALAWAN**

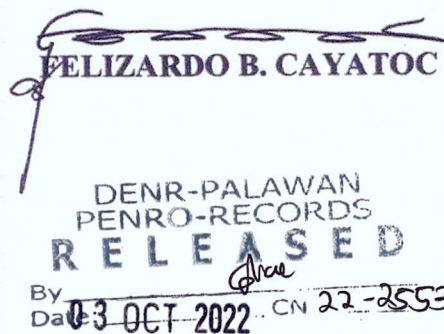


Forwarded is the memorandum dated September 16, 2022 from CENRO Taytay along with the 2<sup>nd</sup> semester Report on Biodiversity Monitoring System (BMS) of Malampaya Sound Protected Landscape and Seascape (MSPLS).

Please be informed that the Protected Area Management Office (PAMO) of MSPLS accomplished the BMS activity for the 2<sup>nd</sup> semester through the four (4) methods of Biodiversity Monitoring System (BMS) (transect walk, swim, Focus Group Discussion (FGD) and Field Diary). Issues and concerns recorded during the FGD was presented to the Protected Area Management Board (PAMB) meeting on September 9, 2022.

Further, an Irrawaddy Dolphin Track Line Monitoring was also conducted and ten (10) heads of Irrawaddy Dolphin were sighted within the inner sound of MSPLS.

For information and record.





# Biodiversity Monitoring Report of Malampaya Sound Protected Landscape and Seascape (MSPLS) Taytay-San Vicente, Palawan

2<sup>nd</sup> Semester CY 2022







Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region

**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**

By the National Highway, Poblacion, Taytay, Palawan 5312

Mobile: 0926-505-9335 TM 0912-171-3889 TNT

Email: cenrotaytay@denr.gov.ph

September 16, 2022

MEMORANDUM

FOR : The Provincial Environment and Natural Resources Officer- Palawan  
Sta. Monica, Puerto Princesa City

FROM : The Community Environment and Natural Resources Officer  
This jurisdiction

SUBJECT : **2<sup>ND</sup> SEMESTER REPORT ON BIODIVERSITY MONITORING  
SYSTEM (BMS) OF MALAMPAYA SOUND PROTECTED  
LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN  
VICENTE, PALAWAN**

Respectfully forwarded is the memorandum dated September 14, 2022 of Protected Area Superintendent (PASu) Clarissa P. Pador being our accomplishment and **Means of Verification (MoVs)** on the target Biodiversity Monitoring System (BMS) under 001 Protected Area Management and Development activity for CY 2022 of Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay-San Vicente, Palawan.

Please be informed that PAMO-MSPLS successfully accomplished the mentioned target activity for the 2<sup>nd</sup> semester of CY 2022. Likewise, issues and concern recorded during the Focus Group Discussion (FGD) was already presented to the Protected Area Management Board (PAMB) Enbanc meeting on September 9, 2022 for management intervention.

For his information and record.

**DENR CENRO  
TAYTAY, PALAWAN  
RELEASED**

BY: SEP 16 2022 CR 2483

  
ALAN L. VALLE

Cc: PAMO-MSPLS



Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region

**PROTECTED AREA MANAGEMENT OFFICE**  
**MALAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPLS)**

Taytay-San Vicente, Palawan  
Barangay Old Guinlo, Taytay, Palawan

Email add: [pamomspls@gmail.com](mailto:pamomspls@gmail.com) / Contact #: 0938-786-3728 (SMART)



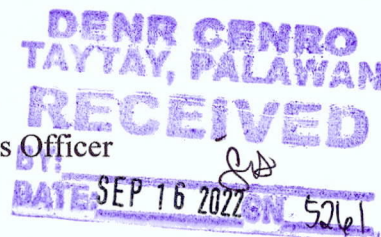
September 14, 2022

MEMORANDUM

FOR : The Community Environment and Natural Resources Officer  
Taytay, Palawan

FROM : The Protected Area Superintendent  
Malampaya Sound Protected Landscape and Seascape (MSPLS)  
Taytay-San Vicente, Palawan

SUBJECT : **2<sup>ND</sup> SEMESTER REPORT ON BIODIVERSITY MONITORING  
SYSTEM (BMS) OF MALAMPAYA SOUND PROTECTED  
LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN  
VICENTE, PALAWAN**



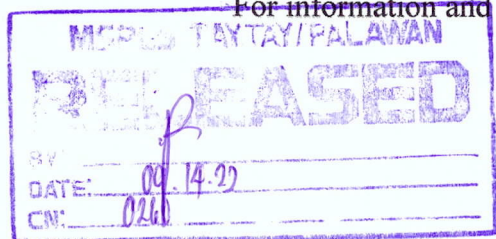
This pertains to the target activity under 001 Protected Area Management and Development Sub-Program- Biodiversity Monitoring System (BMS) of Malampaya Sound protected Landscape and Seascape (MSPLS). Taytay-San Vicente, Palawan.

Please be informed that this Office conducted the four (4) methods of Biodiversity Monitoring System (BMS) for the 2<sup>nd</sup> semester CY 2022 namely Transect Walk, Transect Swim, Focus Group Discussion (FGD) and Field Diary with additional activities such as photo documentation and Irrawaddy Dolphin Track Line Monitoring. During the Focus Group Discussion (FGD) at Barangay New Guinlo and Banbanan, Taytay, Palawan, one (1) of the issues and concern raised by the Community Monitoring Group (CMG) is the possession of unregistered chainsaw of some residents which was presented to the Protected Area Management Board (PAMB) Enbanc meeting on September 9, 2022, the PAMB recommends the continuous patrol and monitoring of the reported chainsaw and have a closed coordination to the Palawan Council for Sustainable Development (PCSD) regarding the matter.

Further, among the five (5) established monitoring sites for transect walk, three (3) of this disclosed that Olive-winged Bulbul (*Pycnonotus plumosus*) is the most common species as well as the Sunbird. Likewise, during the transect swim the most abundant fish observed in the three (3) established monitoring sites were Damselfish (*Pomacentridae*), Sergeant Major (*Abudefduf saxatilis*) and Dalagang Bukid (*Fusilier*), presence of diadema urchins remain to have the highest occurrence and live coral cover is ranging 86 to 91%.

On the other hand, ten (10) heads of Irrawaddy Dolphin were sighted at one (1) of the eleven (11) established station within inner sound of MSPLS.

For information and record.



CLARISSA P. PADOR





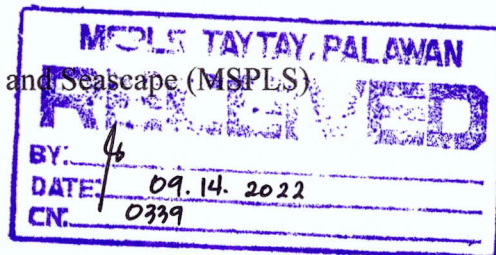
September 12, 2022

**MEMORANDUM**

**FOR :** The Protected Area Superintendent  
Malampaya Sound Protected Landscape and Seascape (MSPLS)  
Taytay-San Vicente, Palawan

**FROM :** The CMEMP Extension Officer  
MSPLS, Taytay, Palawan

**SUBJECT :** **SUBMISSION OF 2nd SEMESTER BIODIVERSITY MONITORING SYSTEM (BMS) OF MALAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN VICENTE, PALAWAN**



This pertains to the target activity on the implementation of the Biodiversity Monitoring System (BMS) for Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay, Palawan for 2nd Semester CY 2022 under Protected Areas Development and Management.

Please be informed that the Protected Area Management Office (PAMO) staff of MSPLS, Taytay-San Vicente, Palawan had conducted Biodiversity Monitoring System activities for the 2nd semester CY 2022.

On August 2-5, 2022, series of transect walk monitoring was conducted at the established monitoring sites in Barangays Old Guinlo, New Guinlo and Banbanan Taytay and Barangay Alimanguan, San Vicente, Palawan. Focus Group Discussion (FGD) meeting was also conducted at Sitio Yakal, Barangay New Guinlo, Taytay on August 2, 2022 and in Barangay Banbanan, Taytay, Palawan on August 5, 2022. And possession of unregistered chainsaw was raised during issues and concern and this matter was presented to the Protected Area Management Board (PAMB) EnBanc meeting on September 9, 2022. The PAMB recommends continuous patrolling and monitoring and closed coordination to the Palawan Council for Sustainable Development (PCSD) regarding the registered and unregistered chainsaw in Bgys. New Guinlo and Banbanan, Taytay, Palawan.

Results disclosed that Olive-winged Bulbul (*Pycnonotus plumosus*) is the most common species in the established monitoring sites in New Watershed, Bgy. New Guinlo and Sitio Malatek-latek, Bgy. Old Guinlo, Taytay and Sunbird in Old Watershed, Bgy. New Guinlo, Taytay, Palawan. Indicator/Priority species such as Blue-naped Parrot, Hooded Pitta, Grey Imperial Pigeon, Hill Myna, Red Jungle Fowl and Palawan Shama were also monitored in these areas.

During transect swim on August 9, 2022, school of Damselfish (*Pomacentridae*), Sergeant Major (*Abudefduf saxatilis*) and Dalagang Bukid (*Fusilier*) were the most abundant fish species observed in the three (3) established reef monitoring sites in Rich Reef, Bgy. Banbanan, Turao Island, Bgy. San Jose and Calabugtong Reef, Bgy. Pancol, Taytay, Palawan. On the other hand, diadema urchins remain to have a highest occurrence among the invertebrates while live coral cover in these reefs is ranging from 86 to 91%.



Moreover, Irrawaddy Dolphin Track Line Monitoring was conducted within the eleven (11) established stations of Inner Malampaya Sound as part of the conservation initiative of MSPLS. A total of ten (10) heads of Irrawaddy Dolphin were sighted along in the area of Sitio Binataan, Bgy. Banbanan, Taytay, Palawan.

Attached are the copy of report and photo documentation.

For his information and record.

  
**MARIA LILIBETH E. AROJO**



PHOTO DOCUMENTATION



Figure I. Focus Group Discussion (FGD) meeting in Bgys. New Guinlo and Banbanan, Taytay, Palawan

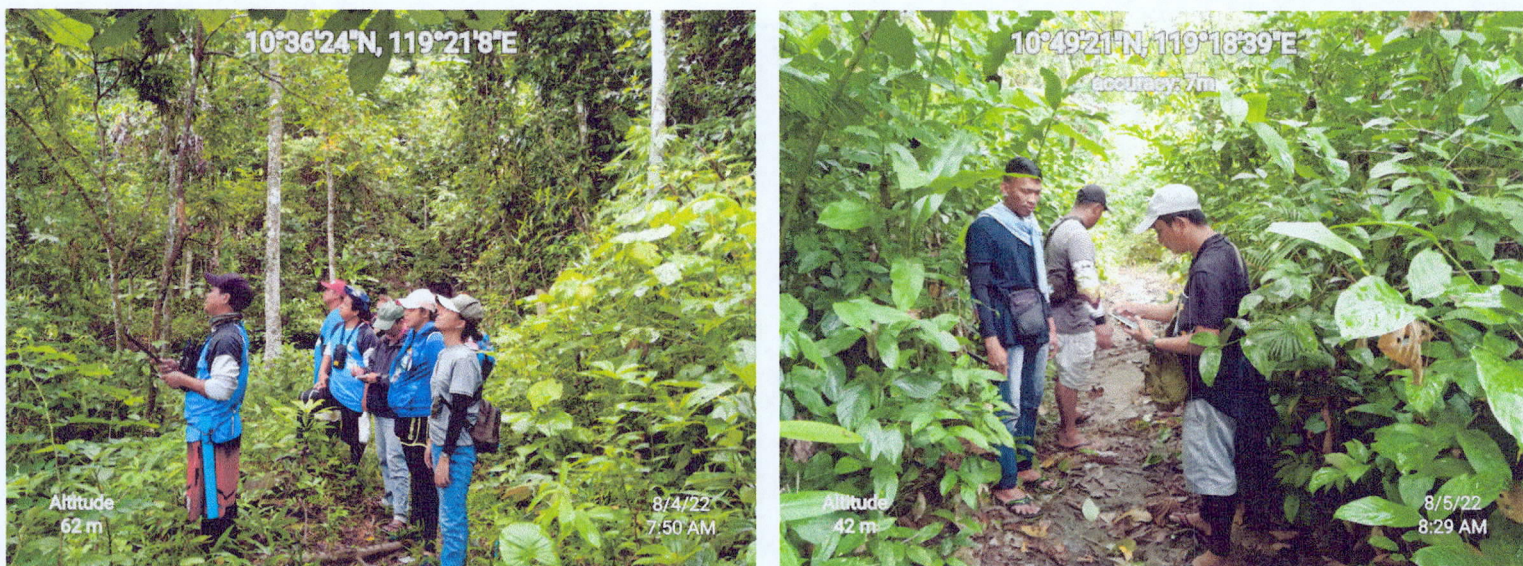


Figure II. Transect walk in Bgys. New Guinlo, Old Guinlo, Banbanan, Taytay and Alimanguan, San Vicente, Palawan



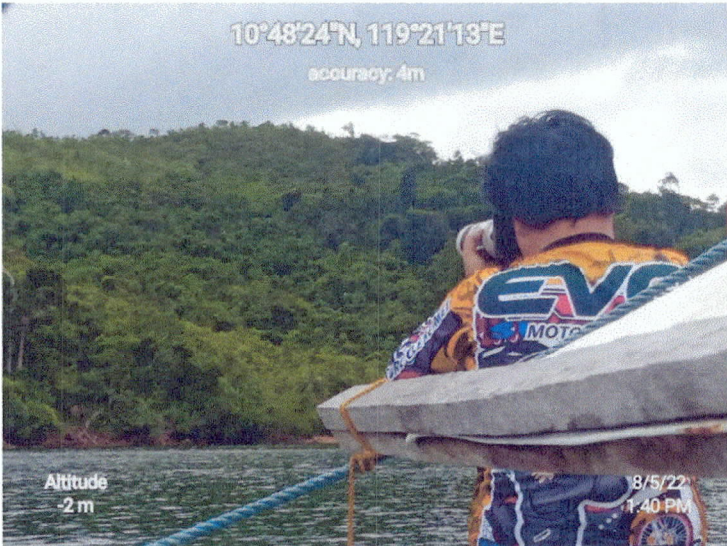


Figure III. Irrawaddy Dolphin monitoring within inner sound of MSPLS



Figure IV. Transect swimming within established sites in Rich Reef, Bgy. Banbanan, Turao Island, Bgy. San Jose and Cabugtong Island, Bgy. Pancol, Taytay, Palawan.

I hereby certify that the above photos are true and correct and was taken during the conduct of Biodiversity Monitoring System (BMS) within MSPLS-Taytay, Palawan.

MARIA LILIBETH E. AROJO





# **BIODIVERSITY MONITORING REPORT FOR MALAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY – SAN VICENTE, PALAWAN**

**2<sup>nd</sup> SEMESTER CY 2022**

**DENR CENRO TAYTAY**  
*Protected Area Management Office-MSPLS*



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- 4.3 Summary of Transect Data 2<sup>nd</sup> Semester of year 2022
- 4.4 Summary of Irrawaddy Dolphin Track Line Monitoring
- 4.5 Summary of Focus Group Discussion 2<sup>nd</sup> Semester CY 2022



# Biodiversity Monitoring Report

## 1. Introduction

Malampaya Sound has a diverse ecosystem consisting of sheltered bays, coves, estuaries, and islands separated from the sea to the west by the Capoas peninsula. It covers about 200,115 hectares of both aquatic and terrestrial ecosystems. Due to its unique, distinct, and scientific significant ecological topographies, Malampaya Sound Protected Landscape and Seascape (MSPLS) were proclaimed as Protected Area on July 12, 2000, under Presidential Proclamation No. 342 to enhance its biological diversity and protect from human exploitation.

Monitoring of the physical status of natural resources is being implemented to contribute to the conservation, protection, and proper use of resources of MSPLS. A biodiversity monitoring system was implemented during the quarter through the regular collection of data on natural biological resources and its utilization. It focuses on identifying trends in biodiversity and its use to guide action in PA management. Also, the activity is intended to improve the participation of protected area communities in the effective management of the protected area.

The monitoring of biodiversity is implemented through the Protected Area Management Office (PAMO) of MSPLS. Stakeholders who supported and participated during the implementation of the activity are the Community Monitoring Group (CMG). The information generated from the field is recorded to identify trends in biodiversity to be used in the management intervention for the protected area.

The BMS includes four (4) methods:

### 1. Field Diary

Field diary is being done by recording day-to-day observations of both flora and fauna and priority species particularly the threatened ones by Forest Rangers and Office Support Staff during patrols and other related activities.

### 2. Transect Walk

PA Rangers and some detailed DENR-CENRO personnel conduct monitoring starting the early morning in the pre-established transect sites. They record significant observations and wildlife species seen and heard during the activity. The established transect walk areas within MSPLS are within the vicinity



of the New Watershed in Sitio San Miguel Barangay New Guinlo, Old Watershed in Barangay New Guinlo, Sitio Malatek-latek in Barangay Old Guinlo, Campsite in Barangay Banbanan, Taytay and Purok 8 of Barangay Alimanguan proper, San Vicente, Palawan.

3. **Transect Swim**

This activity is being conducted on the established transect swim routes through skin diving or snorkeling. During the activity, different species and counts of fish monitored are recorded. The quarterly monitoring is being conducted in the three established transect swim areas namely Calabugtong Reef in Bgy. Pancol, Turao Reef of Bgy. San Jose and Rich Reef of Bgy. Banbanan, all within the municipality of Taytay.

4. **Focus Group Discussions (FGD)**

This is being conducted among the Community Monitoring Groups(CMGs) established at So. Yakal, Bgy. New Guinlo and in Bgy. Banbanan, Taytay, Palawan. The CMGs provide information on the different uses of resources in their respective areas as well as the wildlife they monitored. The data collected are mainly based on the perception of the local communities on environmental trends in their respective areas.

5. **Photo Documentation**

Geo-tagged photos of the landscape within the established reference corners are being taken periodically at the three sites specifically at the Old and New Watershed areas of Bgy. New Guinlo and at the Watershed Area of Bgy.Old Guinlo, all of Taytay, Palawan.

6. **Irrawaddy Dolphin Monitoring**

Irrawaddy dolphin monitoring is being conducted within the established track line composed of eleven (11) stations in Inner Malampaya Sound.

2. **Proposed Management Interventions**

**Table 1.** Proposed Management Interventions for MSPLS for 2nd Semester CY 2022

<i>Issue/s</i>	<i>Municipality</i>	<i>Recommended PAMB Action</i>	<i>Supportive BMS Information</i>
Possession of unregistered chainsaw	Taytay	Continuous patrolling and monitoring.  Coordination to PCSD regarding the registered and unregistered	FGD



chainsaw.
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### 3. Important Observations

Based on the monitoring and interpretation of data gathered from the field for the **2<sup>nd</sup> Semester CY 2022**, the following important observations were recorded.

**Table 2.** Important observations on Biodiversity for 2<sup>nd</sup> Semester CY 2022

<i>Method</i>	<i>Species or Resource Use</i> (only 2-4 most important)	<i>Changed observed and reason</i>	<i>Proposed action</i>
<b>Field Diary</b>	Irrawaddy Dolphin Palawan Hornbill Philippine Wild Duck Palawan Hill Myna Blue-naped Parrot Grey Imperial Pigeon	There were more priority species monitored	Continuous monitoring and conduct of IEC
<b>Transects</b>	Forest trees and priority species	Few birds species were observed in Bgy. Alimanguan due to unfavorable weather conditions during the conduct of the transect activity.	Continuous monitoring and conduct of IEC
<b>Focus Group Discussion</b>	<b>a. So. Yakal, Bgy. New Guinlo, Taytay</b> 1. <i>Banak</i> 2. <i>Blue Crabs</i> 3. <i>Kabitsen</i>	No extraction of <i>Samaral</i> and <i>green mussels</i>	Continuous monitoring
	<b>b. Bgy. Banbanan, Taytay</b> 1. <i>Tunsoy</i> 2. <i>Squid (Lumot)</i> 3. <i>Blue Crabs</i> 4. <i>Rabbitfish</i> 5. <i>Pony fish (Salaysalay)</i>	None	Continuous monitoring

### 4. Findings per BMS method

#### 4.1 Summary of Field Diary Data 2<sup>nd</sup> Semester CY 2022

Below is the summary of the data extracted from the field diaries of park rangers on wildlife they monitored within MSPLS.

**Table 3.** Summary of Field Diary Data for 2<sup>nd</sup> Semester CY 2022

<b>Resource Use or Species</b>	<b>Place</b>	<b>Nos</b>	<b>How Observed</b>	<b>Date</b>	<b>Name of Observer</b>	<b>Remarks</b>
Common Dove	Bgy. Pancol	2	Seen	April 4	R. Armenia	Flying
Monitor Lizard	Bgy. New Guinlo	1	Seen	April 7	R. Armenia	Crawling



Irrawaddy Dolphin	Bgy. Old Guinlo	2	Seen	April 7	E. Balvin	Swimming/ Feeding
White-Breasted Sea Eagle	Bgy. New Guinlo	1	Seen	April 8	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	Feeding
Wild Duck	Bgy. New Guinlo	6	Seen	April 10	R. Armenia	In-flight
Common Dove	Bgy. New Guinlo	4	Seen	April 10	E. Balvin	In-flight
Hornbill	Bgy. Pancol	2	Seen	April 13	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	In-flight
Grey Imperial Pigeon	Bgy. Pancol	2	Seen	April 13	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	Feeding
Red Jungle Fowl	Bgy. Tumbod	5	Seen	April 14	R. Tandoc C. Valente B. Barcoma	In-flight
White Breasted Sea Eagle	Bgy. Tumbod	1	Seen	April 14	R. Tandoc C. Valente B. Barcoma	Flying
Zebra Dove	Bgy. Tumbod	6	Seen	April 15	R. Tandoc C. Valente B. Barcoma	Flying
Grey Imperial Pigeon	Bgy. Tumbod	3	Seen	April 19	R. Tandoc C. Valente B. Barcoma E. Balvin	In-flight
Long Tailed Macaque	Bgy. Tumbod	10	heard	April 19	C. Valente B. Barcoma E. Balvin	Feeding at seashore
Marine Turtle	Bgy. Pancol	1	Seen	April 19	E. Balvin	Swimming
Irrawaddy Dolphin	Bgy. Old Guinlo	4	Seen	April 21	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	Swimming/ Feeding
Blue-headed Racket Tail Parrot	Bgy. New Guinlo	3	Seen	April 24	E. Balvin	In-flight
Long Tailed Macaque	Bgy. Tumbod	10	heard	April 25	C. Valente B. Barcoma	Feeding at seashore



Marine Turtle	Bgy. Liminangcong	1	Seen	April 26	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	Swimming
White Breasted Sea Eagle	Bgy. Banbanan	1	Seen	April 26	R. Armenia	Flying
Blue-napped parrot	Bgy. New Guinlo	2	Seen	May 1	E. Balvin	In-flight
Philippine Eagle	Bgy. Tumbod	2	Seen	May 2	C. Valente B. Barcoma	Flying
Grey Imperial Pigeon	Bgy. New Guinlo	1	Seen	May 2	E. Balvin	Pearching
Wild Duck	Bgy. New Guinlo	3	Seen	May 3	E. Balvin	In-flight
Grey Imperial Pigeon	Bgy. Pancol	4	Seen	May 5	R. Armenia R. Dalabajan	In-flight
Hooded Pitta	Bgy. Pancol	1	Seen	May 6	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	In-flight
Common Cockato	Bgy. Pancol	1	Seen	May 6	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	Perching on the top of the tree
Red Jungle Fowl	Bgy. Pancol	1	Seen	May 6	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	In-flight
Grey Imperial Pigeon	Bgy. New Guinlo	12	Seen	May 10	E. Balvin	In-flight
Hornbill	Bgy. Liminangcong	17	Heard	May 17	C. Valente B. Barcoma	In-flight
Storkbilled King fisher	Bgy. Tumbod	6	Heard	May 19	C. Valente B. Barcoma	Flying
Irrawaddy Dolphin	Bgy. New Guinlo	8	Seen	May 19	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	Feeding/Swimming



Wild Duck	Bgy. New Guinlo	2	Seen	May 23	E. Balvin	In-flight
Irrawaddy Dolphin	Bgy. Alacalian	8	Seen	May 24	R. Tandoc F. Bose R. Armenia E. Balvin R. Dalabajan R. Valones	Feeding/S wimming
Hornbill	Bgy. Liminangcong	3	Seen	May 30	C. Valente B. Barcoma	Flying
Marine Turtle	Bgy. Liminangcong	6	Seen	May 30	C. Valente B. Barcoma	Swimming
Irrawaddy Dolphin	Bgy. Tumbod	3	Seen	June 3	C. Valente B. Barcoma	Swimming/ Feeding
Marine Turtle	Bgy. Tumbod	1	Seen	June 5	C. Valente B. Barcoma	Swimming
Long Tailed Macaque	Bgy. Pancol	8	Seen	June 9	R. Armenia	Feeding at Mango tree
Monitor Lizard	Bgy. Tumbod	1	Seen	June 10	C. Valente B. Barcoma	Swimming
Palawan Stink Badger	Bgy. Old Guinlo	1	Seen	June 15	C. Valente B. Barcoma	Walking
Palawan Tree Shrew	Bgy. Liminangcong	2	Seen	June 16	C. Valente B. Barcoma	Crawling
Crow	Bgy. Tumbod	3	Seen	June 18	C. Valente B. Barcoma	Perching at Mango tree
Sunbird	Bgy. Liminangcong	5	Seen	June 19	C. Valente B. Barcoma	Flying
Spotted Dove	Bgy. Liminangcong	4	Seen	June 26	C. Valente B. Barcoma	Flying
Hornbill	Bgy. Abongan	2	Seen	June 27	R. Armenia E. Balvin	Perching
Black Naped Oriole	Bgy. Liminangcong	4	Seen	June 28	C. Valente B. Barcoma	Flying
Grey Imperial Pigeon	Bgy. New Guinlo	9	Seen	June 28	R. Armenia E. Balvin	In-flight
Emerald Dove	Bgy. Tumbod	1	Seen	July 2	C. Valente B. Barcoma	Flying
Blue-napped parrot	Bgy. Tumbod	2	Seen	July 5	C. Valente B. Barcoma	In-flight



Hill Myna	Bgy. Liminangcong	2	Seen	July 6	C. Valente B. Barcoma	In-flight
Marine Turtle	Bgy. Pancol	1	Seen	July 9	E. Balvin	Swimming
Funtail	Bgy. Liminangcong	2	Seen	July 10	C. Valente B. Barcoma	Flying
Wild Duck	Bgy. New Guinlo	10	Seen	July 10	E. Balvin	In-flight
Common Dove	Bgy. New Guinlo	4	Seen	July 12	E. Balvin	Flying
Common Dove	Bgy. Old Guinlo	6	Seen	July 15	E. Balvin	Flying
Quail	Bgy. Liminangcong	2	Seen	July 19	C. Valente B. Barcoma	Walking
Palawan Tree Shrew	Bgy. Liminangcong	4	Seen	July 21	C. Valente B. Barcoma	Crawling
Long tailed Macaque	Bgy. New Guinlo	5	Seen	July 21	R. Armenia	Feeding
Long tailed Macaque	Bgy. Liminangcong	10	Seen	July 24	C. Valente B. Barcoma	Climbing
White heron	Bgy. Tumbod	7	Seen	July 25	C. Valente B. Barcoma	Flying
Irrawaddy Dolphin	Bgy. Alacalian	4	Seen	July 27	R. Armenia E. Balvin	Swimming/ Feeding
White Breasted Sea Eagle	Bgy. Old Guinlo	1	Seen	August 2	R. Tandoc F. Bose R. Armenia E. Balvin R. Valones	In-Flight
Blue-napped parrot	Bgy. New Guinlo	4	Seen	August 3	R. Armenia	In-Flight
Wild Duck	Bgy. New Guinlo	4	Seen	August 3	E. Balvin	In-Flight
Irrawaddy Dolphin	Bgy. Alacalian	3	Seen	August 4	R. Armenia	Swimming/ Feeding
Red Jungle Fowl	Bgy. Tumbod	2	Seen	August 4	C. Valente B. Barcoma	In-Flight
Irrawaddy Dolphin	Bgy. Banbanan	14	Seen	August 5	R. Tandoc F. Bose R. Armenia	Swimming/ Feeding



					E. Balvin R. Valones	
Wild Duck	Bgy. New Guinlo	4	Seen	August 6	R. Armenia	Perching
Grey Imperial Pigeon	Bgy. Tumbod	4	Seen	August 7	C. Valente B. Barcoma	Flying
Marine Turtle	Bgy. Pancol	1	Seen	August 9	R. Tandoc F. Bose R. Armenia E. Balvin R. Valones	Swimming
Wild Boar	Bgy. Liminangcong	2	Seen	August 10	C. Valente B. Barcoma	Walking
Hornbill	Bgy. Old Guinlo	2	Seen	August 11	R. Armenia	Perching
White-Collard Kingfisher	Bgy. Tumbod	1	Seen	August 12	C. Valente B. Barcoma	Flying
Irrawaddy Dolphin	Bgy. New Guinlo	3	Seen	August 17	R. Tandoc F. Bose R. Armenia E. Balvin R. Valones	Swimming/ Feeding

#### 4.2 Summary of Photo Documentation data 2<sup>nd</sup> Semester CY 2022

During the conduct of transect walks, photos were taken on the pre established areas and compared it with photos taken during the previous quarter. Among the factors considered were forest cover, the status of wetlands (if there’s any), and land-uses to determine if there are change/s on the important habitats of wildlife within the protected area. Hereunder are the observations based on the photos taken for the 2<sup>nd</sup> semester of 2022:

<i>Name of photo site</i>	<i>Code name of photo, if any</i>	<i>Date of photo this quarter</i>	<i>Date of previous photo</i>	<i>Date of first photo</i>	<i>Total no. of times photo-graphed</i>	<i>Habitat change between photo this quarter and previous photo</i>
1. New Guinlo Old Watershed Area	Photo No. 1	08/03/22	02/18/22	11/23/09	47	Forest trees on the area was affected by typhoon Odette, there are fallen and uprooted trees.



2. New Guinlo New Watershed Area	Photo No. 2	08/03/22	02/18/22	11/24/09	47	Forest trees remain intact
3. Old Guinlo Watershed Area	Photo No. 3	08/02/22	03/01/22	11/25/09	47	Forest trees remain intact

**Table 4.** Photo documentation data for 2<sup>nd</sup> Semester CY 2022

**Photo No. 1 - Old Watershed Area, New Guinlo, Taytay, Palawan**





Coordinates :10°46'9 N, 119°27'21 E  
Location :Barangay New Guinlo, Taytay, Palawan  
Accessibility :The area can be reached by motorcycle or any public utility vehicle. The site is 18 kilometers away from Bgy. Poblacion, Taytay, Palawan.  
Date established :November 23, 2009

Photo No. 2 - New Watershed Area, New Guinlo, Taytay, Palawan



Coordinates : 10°47'15 N, 119°26'45 E  
Location : Barangay New Guinlo, Taytay, Palawan  
Accessibility : The area can be reached by motorcycle or any public utility



vehicle. The site is 23 kilometers away from Bgy. Poblacion, Taytay, Palawan  
Date established : November 24, 2009

Photo No. 3 - Old Guinlo Watershed Area



Coordinates : 10°48'13 N, 119°26'44 E  
Location : Barangay Old Guinlo, Taytay, Palawan  
Accessibility : The area can be reached by motorcycle or any public utility vehicle. The site is 27 kilometers away from Bgy. Poblacion, Taytay, Palawan  
Date established : November 25, 2009



### 3.3 Summary of Transect Data for the 2<sup>nd</sup> Semester CY 2022

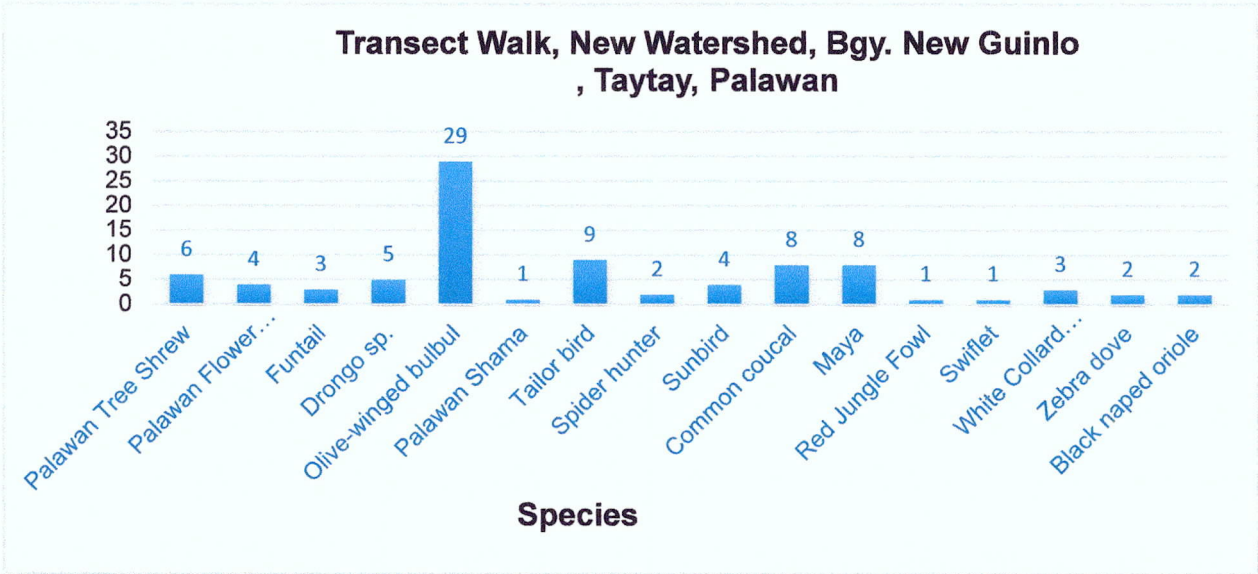
**Table 5.** Transect walk and transect swim monitoring data for 2<sup>nd</sup> Semester CY 2022

Name of transect route (incl Barangay & Municipality)	Date of the survey this quarter	Priority species and uses recorded	No. Recorded this quarter
New Watershed, Bgy. New Guinlo, Taytay	August 3, 2022	Palawan Tree Shrew Palawan Flower Pecker Funtail Drongo sp. Olive-winged bulbul Palawan Shama Tailor bird Spider hunter Sunbird Common coucal Maya Red Jungle Fowl Swiftlet White Collard Kingfisher Zebra dove Black naped oriole Butterfly Grey Imperial Pigeon Swiftlet Crow Gecko	6 4 3 5 29 1 9 2 4 8 8 1 1 3 2 2 5 2 1 1 2
Old Watershed, Bgy. New Guinlo, Taytay	August 3, 2022	Blue naped parrot Sunbird Hooded Pitta Olive-winged Bulbul Palawan Tree Shrew Palawan Shama Drongo sp. Spider hunter Hill Myna	9 15 2 3 4 4 2 1 2
Sitio Malatek-latek, Bgy. Old Gunlo, Taytay	August 2, 2022	Flower pecker Tailor bird Hooded pitta Butterfly Olive-winged Bulbul Zebra dove Sunbird White Collard Kingfisher Glosy starling Black naped oriole Palawan Shama Emerald dove Crow Common coucal	2 8 5 10 12 2 3 2 2 3 5 1 2 1
Alimanguan, San Vicente	August 4, 2022	Hooded Pitta Sunbird Palawan Shama Olive-winged bulbul Drongo sp. Blue naped parrot Long-tailed Macaque	1 2 2 2 4 1 1

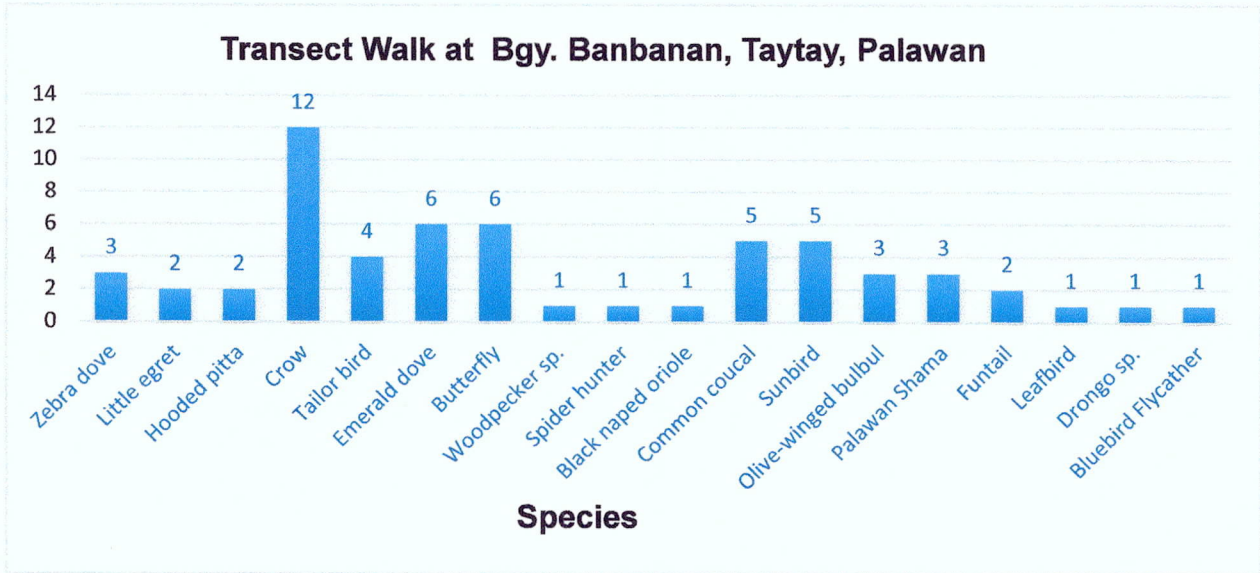
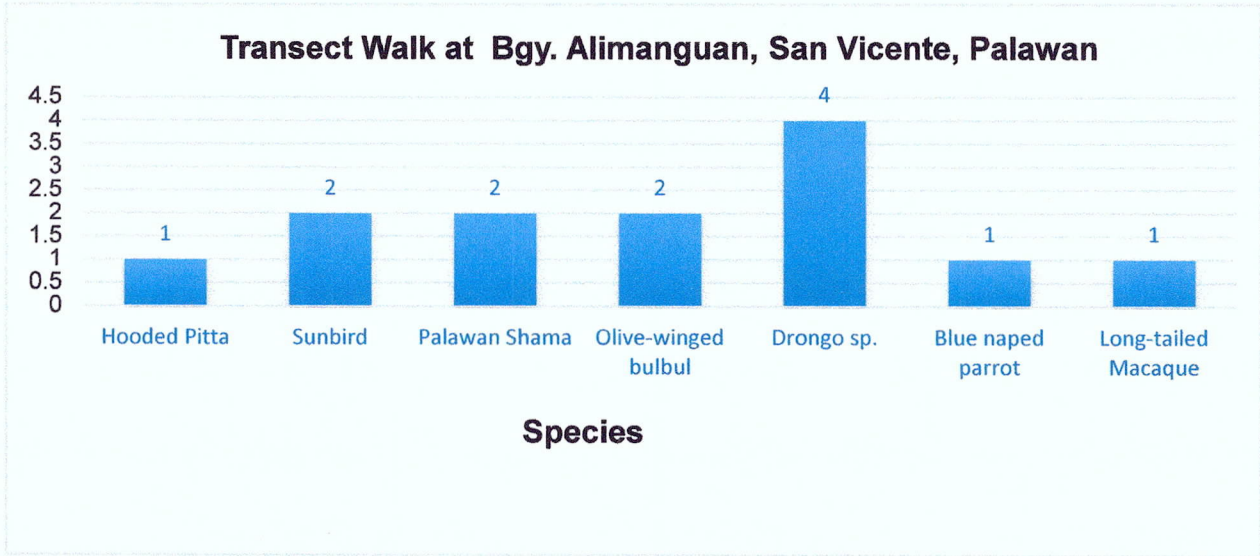


<b>Banbanan, Taytay</b>	<b>August 5, 2022</b>	Zebra dove	3
		Little egret	2
		Hooded pitta	2
		Crow	12
		Tailor bird	4
		Emerald dove	6
		Butterfly	6
		Woodpecker sp.	1
		Spider hunter	1
		Black naped oriole	1
		Common coucal	5
		Sunbird	5
		Olive-winged bulbul	3
		Palawan Shama	3
		Funtail	2
		Leafbird	1
		Drongo sp.	1
		Bluebird Flycather	1

Graph showing the trends of species in the established transect sites for the 2<sup>nd</sup> Semester of CY 2022









Transect Swim: Fish abundance for 2nd Semester CY 2022			
Calabugtong reef in Barangay Pancol, Taytay	August 9, 2022	Grouper	6
		Damsel	School
		Parrot Fish	9
		Angel Fish	22
		Cardinal Fish	109
		Batfish	2
		Trevally fish	1
		Big grouper	1
		Snapper	3
		Butterflyfish	1
		Fusilier	29
Turao reef, Bgy. San Jose, Taytay	August 9, 2022	Seargent major	3
		Grouper	11
		Damsel	School
		Emperior fish	6
		Angel Fish	29
		Parrotfish	13
		Snapper	2
		Cardinal Fish	2
		Butterflyfish	3
		Rich reef, Bgy. Banbanan, Taytay	August 9, 2022
Damsel	School		
Parrot Fish	8		
Emperior	25		
Butterflyfish	4		
Grouper	10		
Snapper	1		
Fusilier	School		
Moorish Idol	4		
Seargent major	School		
Cardinal	10		
Transect Swim: Invertebrates density for 2nd Semester CY 2022			
Calabugtong reef in Barangay Pancol, Taytay	August 9, 2022	Diadema urchin	5
		Giant clam (Tridacna spp.)	
		<10 cm	
		10-20 cm	35
		20-30 cm	0
		30-40 cm	0
		40-50 cm	0
		>50 cm	0
			1
Rich reef, Bgy. Banbanan, Taytay	August 9, 2022	Diadema urchin	65
		Giant clam (Tridacna spp.)	
		<10 cm	10
		10-20 cm	0
		20-30 cm	0
		30-40 cm	0
		40-50 cm	0
		>50 cm	0
Turao reef, Bgy. San Jose, Taytay	August 9, 2022	Diadema urchin	21
		Giant clam (Tridacna spp.)	
		<10 cm	18
		10-20 cm	0
		20-30 cm	0
		30-40 cm	0
		40-50 cm	0
		>50 cm	0







**Table 7.** List of Community Monitoring Group Members in So.Yakal, Bgy. New Guinlo, Taytay, Palawan, and Barangay Banbanan, Taytay, Palawan.

Name of Sitios and Community Monitoring Group: (note 'x' if present)		Date of CMG Meeting this quarter	Total no. CMG in this Barangay
<b>So. Yakal Bgy. New Guinlo, Taytay, Palawan</b>			
1. Herlina R. Avendaño 2. Rosela Yala 3. Anita Gomez 4. Luzviminda Gadiano 5. Renato Rapa 6. Perecto Cabailo 7. Rolando Dela Cruz 8. Elvin Dela Cruz 9. Francisca Repecio 10. Nonita Francisco 11. Diosdado Magdaluyo 12. Zaldy Ambrosio 13. Norry Cabailo 14. Wilfredo Gadiano 15. Lorna Barba	'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x'	August 2, 2022	Fifteen (15)
<b>Barangay Banbanan, Taytay, Palawan</b>			
1. Francia Gonzaga 2. Thelma Medianista 3. Marissa Llamo 4. Ryan Arbolado 5. Eldina Alvarez 6. Severino Lubrico 7. Ricardo Aten 8. Arnel Mir 9. Noel Alba 10. Ronaldo Aten 11. Rene Medianista 12. Rene Brillo 13. Joey Sagala 14. Daryl Gabuco 15. Amanda Alvarez	'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x' 'x'	August 5, 2022	Fifteen (15)

The Focus Group Discussion (FGD) was attended by a total of thirty participants Composed of fifteen (15) from So.Yakal, Bgy. New Guinlo and fifteen (15) from CMG members of Bgy. Banbanan, Taytay, Palawan. The discussions focused on the terrestrial and marine resources extraction by the members and their neighbors as well as the occurrences of wild faunas in their locality.

#### A. Sitio Yakal, Barangay New Guinlo, Taytay, Palawan

The FGD in Sitio Yakal, Barangay New Guinlo was conducted on August 2, 2022. The following data are the data gathered during the said meeting:



**Table 8.** Terrestrial Resources Extraction in Sitio Yakal, Barangay New Guinlo, Taytay, Palawan for the 2nd Semester CY 2022

Species	Place Extracted	Method of Extraction	Quantity extracted by the CMG	Quantity extracted by others	Total number of hours of extraction	Use and other remarks
Bamboo	Yakal	Cutting	4,425 pcs	2,000 pcs	4 hrs	<i>Bubo, Bukatot, Sawali, Bakod</i>
Rattan	Yakal	Cutting	-	6,000	8 hrs	<i>Bakod, Pantali</i>
Fuel Wood	Yakal	Cutting	450 bundle	-	4 hrs	For consumption
Charcoal	Yakal	Buying	3 sacks	90 sacks	8 hrs	For sale

**Table 9.** Marine Resources Extracted by the CMG Members during the 2nd Semester CY 2022 in Sitio Yakal, Barangay New Guinlo, Taytay, Palawan

Species	Place Extracted	Method of Extraction	Quantity extracted by the CMG	Quantity extracted by others	Total number of hours of extraction	Use and other remarks
Banak	So. Yakal	Net # 0.25	60 kilos	120 kilos	24 hrs	For sale & consumption
Kabitsen	So. Yakal	Collecting	135 kilos	150 sacks	4 hrs	For sale & consumption
Blue Crabs	So. Yakal	Bobo/Buka tot	-	80 kilos	12 hrs	For sale & consumption
Samaral	-	-	-	-	-	-
Green Mussel	-	-	-	-	-	-

**Table 10.** Wild Fauna Monitored by the CMG members during the 2<sup>nd</sup> Semester CY 2022 in Sitio Yakal, Barangay New Guinlo, Taytay, Palawan.

Species	Place	No. of sp.	How observed	Date of observation	Name of observer	Remarks
Palawan Hornbill	Yakal	3	Seen	April to July 2022	Nonita F.	-
Bearded Pig	Yakal	1	Seen	July 2022	Herlina A. Nonita F.	-
White-breasted Sea Eagle	Yakal	1	Seen	August 2022	Luzviminda G.	-
Hill Mynah	Yakal	1	Heard	July 2022	Herlina A.	-
Blue-naped Parrot	Yakal	5	Seen	July 2022	Rolando D.	-
Black-naped Oriole	Yakal	2	Seen	July 2022	Herlina A.	-
Red Jungle Fowl	Yakal	2	Seen	June 2022	Nonita F.	-







Samaral	Bgy. Banbanan	Baklad Lambat	350 kgs	350 kgs	4 hrs	For sale & consumption
Salaysalay	Bgy. Banbanan	Talakop, Lambat	500 kgs	1,000 kgs	8 hrs	For sale & consumption

**Note:** The quantity of the resources extracted varies depending on the season.

**Table 14.** Wildlife Fauna Monitored by the CMG members during the 2<sup>nd</sup> Semester CY 2022 in Barangay Banbanan, Taytay, Palawan

Species	Place	No. of Species	How observed	Date of observation	Name of observer	Remarks
Hill mynah	Sitio Calapa	5	Seen	July 2022	Ricardo A.	-
Blue-naped Parrot	Mt. Capoas	5	Seen	July to August	Francia G.	-
Philippine Cockatoo	-	-	-	-	-	-
Scaly anteater	-	-	-	-	-	-
Grey Imperial Pigeon	New Site	12	Seen	June to July 2022	Rene M. Ryan A. Francia G.	-
Bearded pig	Mt. Capoas	2	Seen	June to Aug.4, 2022	Noel A.	-
Porcupine	-	-	-	-	-	-
Red Jungle Fowl	Sitio Ciñaran	5	Seen	June to Aug.4, 2022	Ryan A. Rene A.	-
Palawan Shama	Banbanan	30	Seen	June to Aug.4, 2022	Noel A. Ricardo A.	-
Palawan Hornbill	Banbanan	10	Seen	July 2022	Ricardo A.	-
Woodpecker	Banbanan	2	Seen	July 2022	Ricardo A.	-
Hooded Pitta	Banbanan	4	Seen	July to Aug.4, 2022	Ricardo A. Marissa L.	-
Black-naped Oriole	-	-	-	-	-	-
Kingfisher	Banbanan	3	Seen	July to Aug.4, 2022	Ricardo A. Marissa L	-

**Table 15.** Other Wildlife Observed by the CMG Members in Bgy. Banbanan, Taytay, Palawan

Species	Place	Number of Species	How observed	Date of observation	Name of observer	Remarks
Irrawaddy dolphin	Banbanan	12	Seen	June to Aug. 4, 2022	Marissa L. Francia G. Ryan A.	Feeding
Marine Turtle	Banbanan	2	Seen	July 2022	Ricardo A.	-
Binturong	Banbanan	1	Heard	July 2022	Francia G.	-



Peacock	Banbanan	2	Seen	July 2022	Ricardo A.	-
Pond Turtle	Banbanan	6	Seen	July 2022	Ricardo A. Ryan A. Severino L.	-

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