Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

SEP 20 2022

MEMORANDUM

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

THRU : The ARD for Technical Services

FROM : The OIC, PENR Officer

SUBJECT : **SUBMISSION OF THE 3RD QUARTER MONITORING REPORT ON BATS (FLYING FOXES) IN BRGY. MANGARIN, SAN JOSE, OCCIDENTAL MINDORO**

Forwarded is the memorandum dated September 14, 2022 of CENRO San Jose regarding report on the activities undertaken on bats/flying foxes under MFO Code No.310202100001000 particularly roosting site monitoring located in Sitio Old Mangarin Brgy. Mangarin, San Jose, Occidental Mindoro covering the period from July to September 2022.

The following activities conducted are as follows: (1) biodiversity monitoring; (2) flying fox roosting site assessment; (3) population monitoring and (4) annual population count of the said species. Based on the report, the team counted an estimated number of 19,970 individuals during the 35-minute observation count and being the highest since 2021.

Attached herewith are the photo documentation of activities undertaken for ready reference.

For information and record.

ERNESTO E. TAÑADA

TSD-CDS9/19/2022
Copy furnished:
1. Planning Section
2. C-San Jose
3. File

So. Pag-asa, Brgy. Payompon, Mamburao, Occidental Mindoro
Email:penrooccmin@denr.gov.ph

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

SEP 14 2022

MEMORANDUM

FOR : The Regional Executive Director
DENR-MIMAROPA Region
Roxas Blvd., Ermita, Manila

THRU : The OIC, PENR Officer
DENR-Mamburao, Occidental Mindoro

FROM : The CENR Officer

SUBJECT : SUBMISSION OF THE 3RD QUARTER MONITORING REPORT ON BATS (FLYING FOXES) IN BRGY. MANGARIN, SAN JOSE, OCCIDENTAL MINDORO

Respectfully submitted is the report on the activities undertaken by this office on bats/flying foxes under MFO Code No. 310202100001000 particularly roosting site monitoring located in Sitio Old Mangarin, Brgy. Mangarin, San Jose, Occidental Mindoro covering the period from July to September 2022.

The activities conducted are as follows: (1) biodiversity monitoring; (2) flying fox roosting site assessment; (3) population monitoring; and (4) annual population count of the said species. Reportedly, the team counted an estimated number of 19,970 individuals during the 35-minute observation count and being the highest since 2021.

Photo documentation of the activities undertaken and maps are also attached for your ready reference.

For your information and record.

PENRO
RECEIVED BY:
DATE: 09-16-22
TIME 02:05

RECORDS
RECEIVED BY:
DATE: 9/14 TIME:
RELEASED BY:
DATE: TIME:

EFREN L. DELOS REYES

TSD
RECEIVED BY:
DATE: 9/16
TIME:

JP/MEMOfolder2022/3rdQuarterReport_FF

Brgy. Labangan Poblacion, San Jose, Occidental Mindoro
Tel. Number (043) 457- 0236 / (043) 742-6627
Email: cenrosanjose@denr.gov.ph

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

September 12, 2022

MEMORANDUM

FOR : The OIC, PENR Officer
DENR-Mamburao, Occidental Mindoro

THRU : The CENR Officer

FROM : The Head, CDS-Biodiversity Management Unit

SUBJECT : SUBMISSION OF THE 3RD QUARTER MONITORING REPORT ON BATS (FLYING FOXES) IN BRGY. MANGARIN, SAN JOSE, OCCIDENTAL MINDORO

Relative to the P/P/A on **Protection and Conservation of Wildlife** which is the Conservation of Threatened Species under MFO Code No. 310202100001000 specifically the population and habitat monitoring, and protection of bats/flying foxes, respectfully submitted is the monitoring report of the CDS-BMU covering the period from July to September 2022.

Hereunder are the highlights of the activities undertaken on bats/flying foxes in Brgy. Mangarin, to wit:

1. **Biodiversity monitoring**
   On 20 July 2022, the CDS Team assisted by our local guide, did a transect walk and recorded all the flora and fauna observed along the established transect line. The transect walk covered a total distance of 1.385 kilometers.

FLORA	FAUNA
Api-api/Bongalon, acacia, ipil-ipil, Bakawang babae, aroma, napier grass, camachile, Banaba, banana, siniguelas and bamboo	Black bittern, Brown shrike, Cattle egret, intermediate egret, Purple heron, Gray heron, Collared Kingfisher, Common Redshank, Common Sandpiper, Island-collared dove, Philippine Pied fantail, Zebra dove, Chestnut munia, Far Eastern Curlew, Large-billed Crow, Black-naped oriole, Bangus, dragonfly, butterfly and bagungon

2. **Flying fox roosting site assessment**
   The flying foxes found in Sitio Old Mangarin preferred to roost in the five-hectare mangrove stands composed of species from the family Avicenniaceae *(Bungalon/Api-Api/Miapi)*, Sonneratiaceae *(Pagatpat)* and Rhizophoraceae *(Bakawang babae)*.

The roosting trees observed were approximately 5-8 meters tall with 15–20 centimeter diameter at breast height (DBH). The area is also adjacent to many fishponds, including some abandoned ones.

3. **Population monitoring**
   The exit count at bat roosts which is a Simple Visual Count is the method being used by the Team in monitoring the population of the species. Flying foxes start to leave their roost while there is still light and can be counted directly without the aid of cameras or video equipment.

   On this specific period of monitoring, the flying foxes started to fly-out at 6:34 PM which lasted until 6:54 PM. The team recorded an estimated count ranging from 6,760 to 7,550 individuals.

4. **Annual population count of the flying foxes**
   On 16 August 2022, the CDS-BMU Team together with a local guide and stakeholder, conducted the population counting of flying foxes. They stationed themselves at the center of the fishpond where the bats can be seen when they fly-out from their roosting site.

   The team assigned three (3) counting posts as it was observed in the previous monitoring that the flying foxes somehow fly in 3-4 different directions. At 6:11 PM, the fly-out started which lasted for **35 minutes** or ended at 6:46 PM. The team counted more or less **19, 970 individuals**, which is the highest recorded count so far compared to what was recorded during the monitoring in July 2022 and also of the **2021** population counts of **3, 260 individuals** in July *(reason for the low count may be attributed to the bad weather condition during the time of the observation)* and **15, 190** in November.

   Identification of the specific flying fox species was not undertaken as the Team has limited equipment hence, provision of the needed monitoring equipment is constantly being requested.

Photo documentation of the activities undertaken and map are hereto attached for your ready reference.

For your information, record and further instruction.

MA. TERESITA P. DAVID, JR.

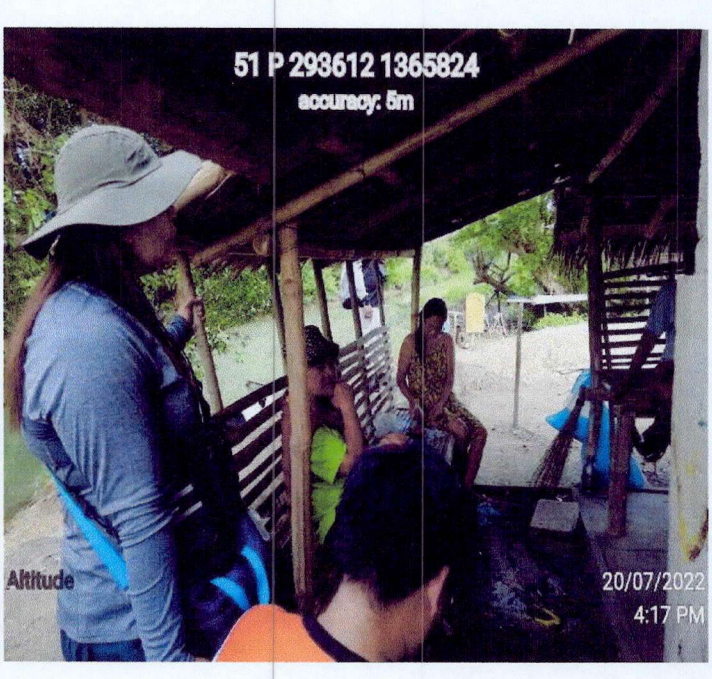
Noted by:

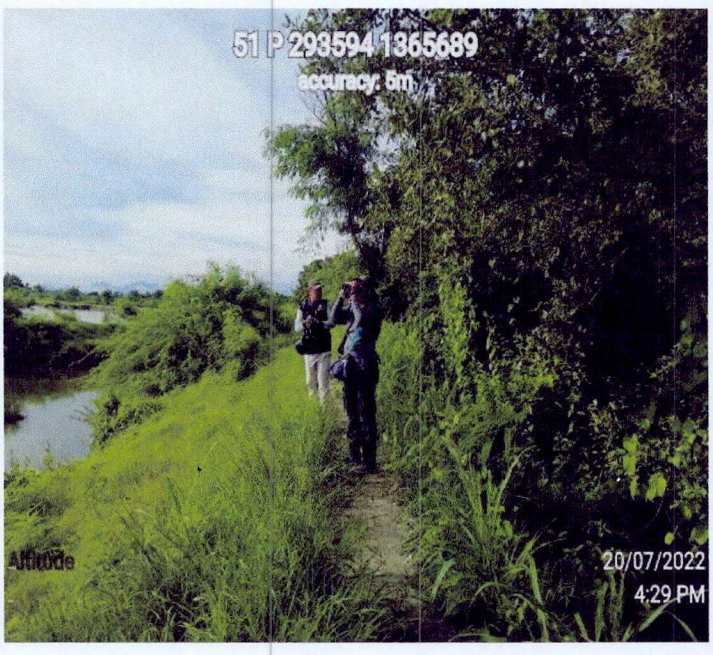
ORLINO B. GACUAN
SEMS/Chief, CDS

JP/2022Files/FF_Mangarin3rdQuarterReport

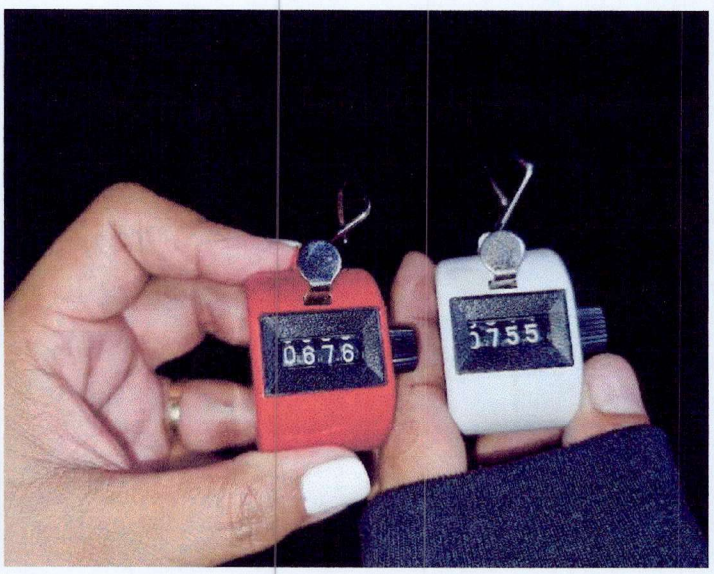
PHOTO DOCUMENTATION

BIODIVERSITY MONITORING
BRGY. MANGARIN, SAN JOSE OCCIDENTAL MINDORO
JULY 20-21, 2022

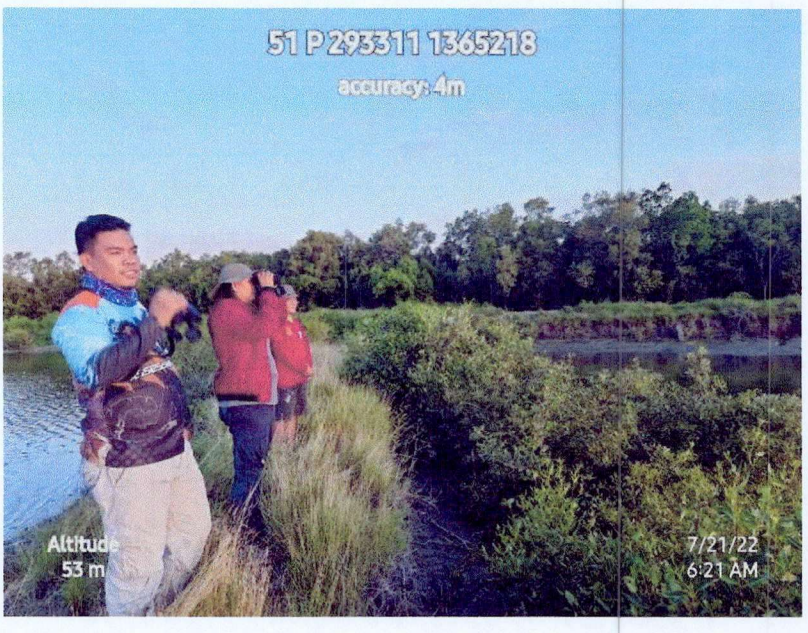




FLYING FOX POPULATION MONITORING

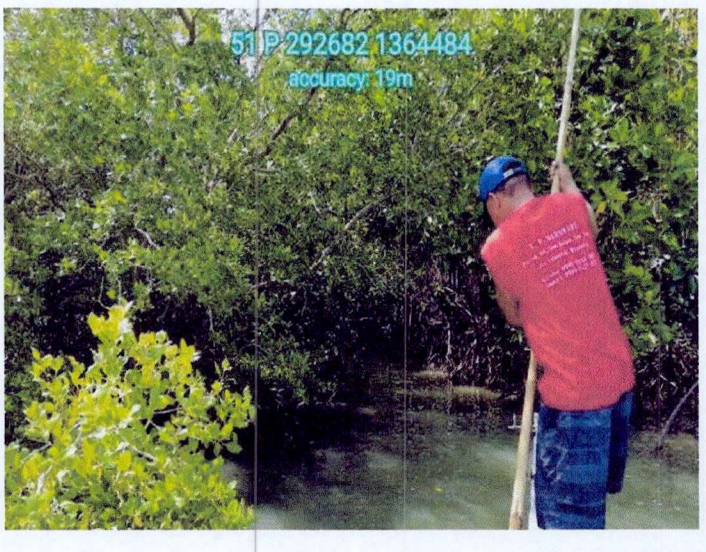


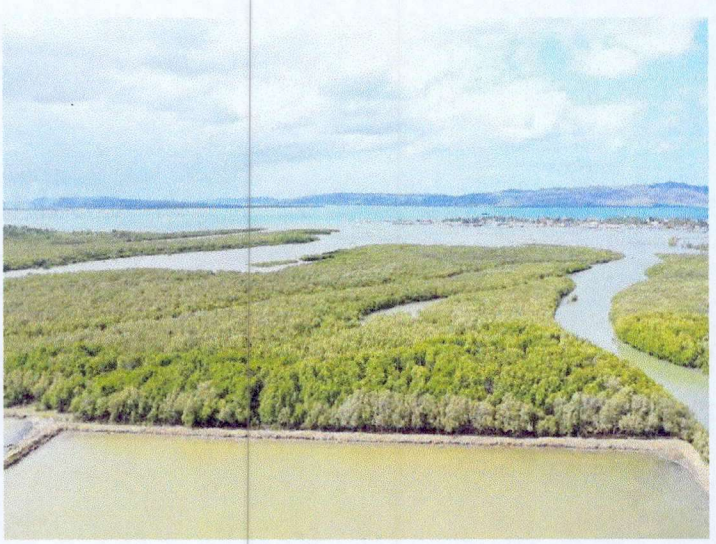
During the fly out of flying foxes from their roosting site. The counters' result is multiplied by 10 to get the total number of individuals counted.



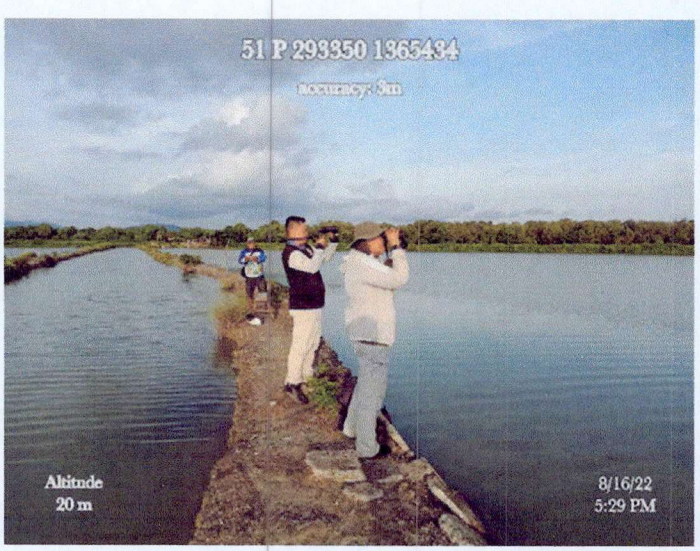
Continued monitoring of the flying fox roosting site was undertaken the following day.

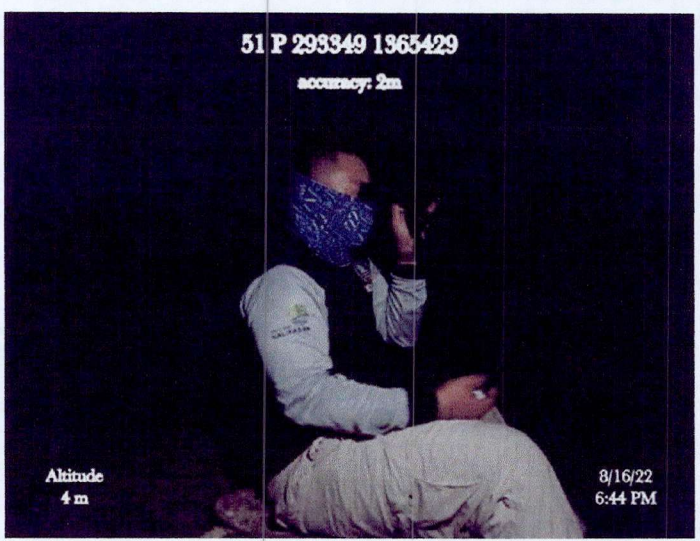
FLYING FOX ROOSTING SITE ASSESSMENT





FLYING FOX POPULATION COUNT
AUGUST 16, 2022

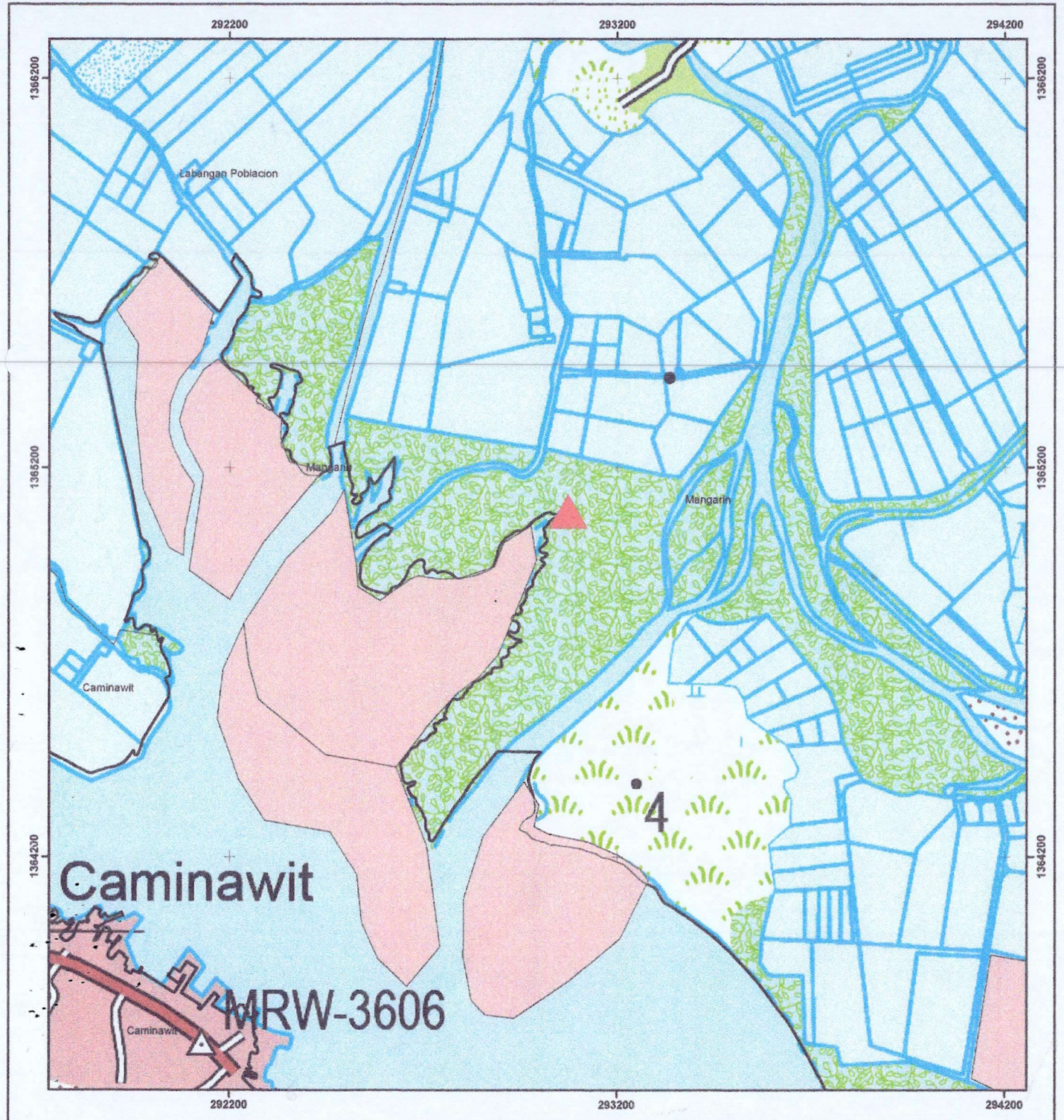




Estimated results from Counting Post #1
Bats counted ranged from 10,500 to 11,320 individuals

Estimated results from Counting Posts #2 & 3
Approximately 2,270 and 6,380 individuals were counted

DRONE SHOT OF THE FLYING FOX ROOSTING SITE WITHIN THE 10-HECTARE MANGROVE AREA



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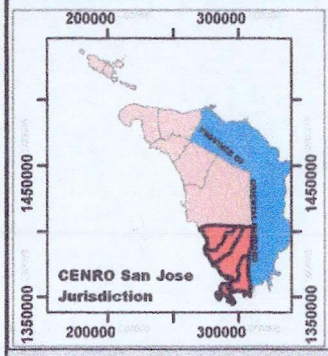

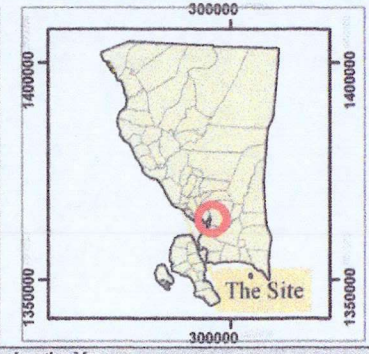

Location Map

LOCATION MAP OF FLYING FOX ROOSTING SITE AND POPULATION COUNT STATION

SCALE:1:10,000

0 125 250 500 750 1,000 Meters

Coordintaes System.....WGS 1984 UTN Zone 51 N
Projection.....Transverse Mercator
Datum.....WGS 1984

LOCATED AT:

Sitio	
Barangay	Mangarin
Municipality:	San Jose
Province:	Occidental Mindoro

LEGEND

- Flying_Fox_Roosting_Site
- NGP_2011-2020
- Municipal_Boundary_Cadastral
- Population_Count+Station
- 3226-IV-San_Jose_WGS.tif
  - RGB
  - Red: Band_1
  - Green: Band_2
  - Blue: Band_3

Prepared by:
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Forester II/Chief, GIS Unit

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ECOMS II-Head, BMU

ORLINO B. GACUAN
SEMS Chief, CDA

Reviewed by:
NILO P. SALVADOR
DMO IV

Attested by:
EFREN L. DELOS REYES
CENR Officer

NOTE:

1.. All information in this Map is Strictly for Planning Use Only. No inference on Claims shall be made as to the extent of Political Boundary or Jurisdictional Boundaries