



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

DENR MIMAROPA
RECORDS SECTION
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JUN 14 2023

BY: _____ DATE NO. _____

TIME: 2:40 PM

MAY 24 2023

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 DENR By the Bay Building, Roxas Boulevard,
Barangay 668, Ermita, Manila

THRU : The ARD for Technical Services

FROM : The OIC, PENR Officer

SUBJECT : **SUBMISSION OF MARABONG LAKE INLAND
WETLAND ASSESSMENT AND PROFILING**

Forwarded is the memorandum dated May 16, 2023 of CENRO Sablayan regarding submission of Marabong Lake Inland Wetland Assessment and Profiling. The assessment and profiling are part of the Protected Areas, Caves and Wetlands Development and Management Sub-Program, Conservation of Inland Wetlands within PAs.

The Wetland Assessment Team employed the following methodologies: (1) survey and mapping, (2) biological assessment of the resources present and adjacent to the wetland, (3) socioeconomic survey using key informant interviews and secondary data available in LGU Sablayan and Marabong Community Resource Management Association (MACORMA).

Based on the assessment report, Marabong Lake is beneficial to the adjacent community and agricultural areas because of the availability of food such as fish and crustaceans, habitat and feeding area for some notable fauna like egret and wild ducks and source of irrigation for rice fields. The lake is also potential for ecotourism if properly managed which can be an additional source of income for the community.

Attached herewith are the filled-out Wetland Information Sheet, GIS generated maps and photo documentations for your reference.

For information, record and further instructions.


ERNESTO E. TAÑADA

TSD-CDS5/24/2023

Copy furnished:

1. Planning Section
2. File

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



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

MAY 16 2023

MEMORANDUM

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

THRU : The OIC, PENR Officer
Mamburao, Occidental Mindoro

FROM : The CENR Officer

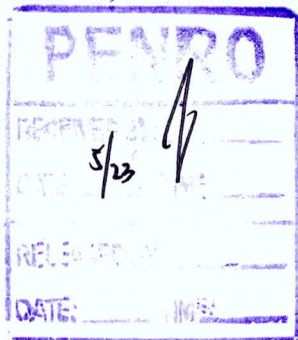
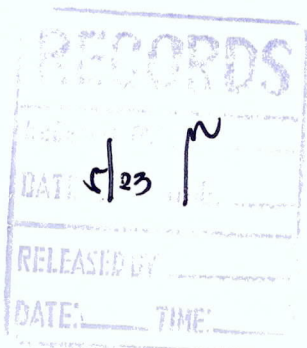
SUBJECT : **SUBMISSION OF MARABONG LAKE INLAND WETLAND
ASSESSMENT AND PROFILING**

RECORDED
Date: 5-16-23
By: [Signature]

Respectfully forwarded is the accomplishment report re; abovementioned subject. The assessment and profiling are part of the Protected Areas, Caves, and Wetlands Development and Management Sub-Program, Conservation of Inland Wetlands within PAs. However, the profiling of the target wetland of Marabong and Tabtaban was not within any Protected Area (PA) or initial components as per designated in RA 11038 or Expanded NIPAS Act of 2018. This was carried out by the Conservation and Development Section of CENRO Sablayan in Sitio Marabong, Sablayan, Occidental Mindoro.

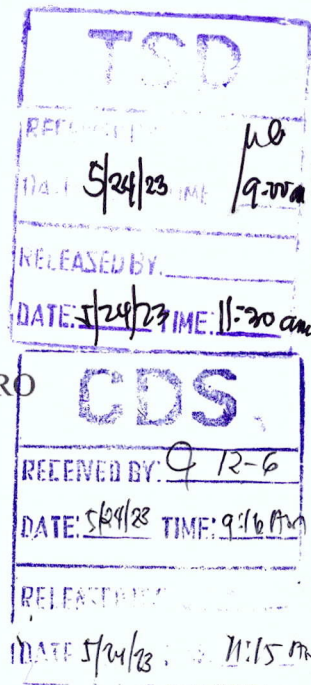
Marabong Lake benefits the surrounding community and agriculture, and also has eco-tourism potential for the LGU and stakeholders, which, if managed appropriately, will provide an extra source of income for members of the local recognized people's organization. The DENR and/or other interested stakeholders, such as LGU Sablayan, can use this assessment and profiling to create an effective natural resource management plan that does not jeopardize opportunities and advantages.

For your information, evaluation and record.



For the CENR Officer:

ISAIAS A. GUIMOD
DMO IV, Deputy CENRO



National Road, Brgy. Sto. Niño, Sablayan, Occidental Mindoro
E-mail: cenrosablayan@denr.gov.ph



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

MAY 11, 2023

MEMORANDUM

FOR : The CENR Officer

THRU : The DMO IV / Deputy CENRO

FROM : The Chief, Conservation and Development Section

**SUBJECT : SUBMISSION OF ACCOMPLISHMENT REPORT OF
MARABONG LAKE INLAND WETLAND ASSESSMENT
AND PROFILING**

Respectfully submitted is the accomplishment report re; abovementioned subject. The assessment and profiling are part of the Protected Areas, Caves, and Wetlands Development and Management Sub-Program, Conservation of Inland Wetlands within PAs. However, the profiling of the target wetland of Marabong and Tabtaban was not within any Protected Area (PA) or initial components as per designated in RA 11038 or Expanded NIPAS Act of 2018. This was carried out by the Conservation and Development Section (CDS) of CENRO Sablayan in Sitio Marabong, Sablayan, Occidental Mindoro.

The Wetland Assessment Team employed the following methodologies: (1) survey and mapping, (2) biological assessment of the resources present and adjacent to the wetland, (3) socioeconomic survey using key informant interviews and secondary data available in LGU Sablayan and Marabong Community Resource Management Association (MACORMA).

According to the assessment, the Marabong Lake is beneficial to the adjacent community and agriculture because of the availability of foods such as fish and crustaceans, habitat and feeding area for some notable fauna such as egrets and wild ducks, and source of irrigation water for the rice fields, which serve as the primary source of livelihood for the community members. The Lake also offers eco-tourism potential to the LGU and stakeholders, which, if properly managed, will provide an additional source of cash for members of the local recognized people's organization. The DENR and/or other interested stakeholders, such as LGU Sablayan, can use this assessment and profiling to design an effective management plan for natural resource management without endangering the opportunities and advantage received from them.

Attached herewith are the filled-up Wetland Information Sheet, GIS generated maps and photo documentations for your reference.

For information, record and further instructions.

HEROLD S. CASTRO

ANNEX B. FORM FOR WETLAND PROFILING (WETLAND INFORMATION SHEET)

Core (minimum) Data Fields for Wetland Profiling

(Adapted and revised from: Ramsar handbooks for the wise use of wetlands, 4th edition.2010. Handbook 13: Inventory, assessment, and monitoring.)

A.GEOGRAPHICAL INFORMATION

1. Site name(official name of site): MARABONG LAKE

Other names(If there is a non-official, alternative name, including for example in a local language, catchment name/other identifier(s)(e.g., reference number) provide it here:

YAPANG LAKE

Photograph. (Provide at least one high-resolution and one geotagged photograph of wetland).



2. Wetland type(Circle or underline the applicable codes for the wetland types based on the Ramsar "Classification System for Wetland Type" present in the site. Descriptions of each wetland type code are provided in Appendix 1)

Marine/coastal : A • B • C • D • E • F • G • H • I • J • K • Zk(a)•

Inland : L • M • N • ○ • P • Q • R • Sp • Ss • Tp • Ts •

U • Va • Vt • W • Xf • Xp • Y • Zg • Zk(b) •

Human-made : 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • Zk(c) •

3. Area, boundary and dimensions:

Site shape(cross-section and plan view (i.e. circular, oval, elongated)):

Elongated shape

Administrative boundaries (to the North, East, South and West etc.):

North	East	West	South
San Francisco	San Agustin	Tuban	Malisbong

Area (total size in hectares, seasonal max/ min, where relevant) : 20.04 Hectares

	Dry Season		Wet Season	
	Min	Max	Min	Max
Including watershed :	11.8 has.			
Area of water/wet area : (river/creek not included)	20.4 has.			

Length, width, depth (in meters, seasonal max/min, where relevant; For rivers, provide data for at least three sections—upstream, midstream, downstream, measurement should be taken only from the main tributaries of the rivers):

	Dry Season		Wet Season	
	Min	Max	Min	Max
Length :	706 m			
Width :	316 m			
Depth :	2m			

Elevation (in meters above sea level) : **127 masl**

Administrative location/coverage:

Sitio	Barangay	Municipality	Province/Island
Marabong	Batong buhay	Sablayan	Occidental Mindoro

Demographic Information: (Socioeconomic characteristics of communities within the administrative location mentioned above)

Municipality	Barangay	Population			Primary Sources of Income	Describe the location in wetland area (i.e. near shoreline, landlocked)
		Male	Female	Total		
Sablayan	Batong buhay	2,196	1,935	4,131	Agriculture	Landlocked
Total Population		2,196	1,935	4,131		

Source and Date of Information : **CBMS 2015**

River Basin/Watershed Name (name of river basin/watershed where the wetland is located):

N/A

Geomorphic setting (Describe the setting in the landscape/catchment/river basin - including altitude, upper/lower zone of catchment, distance to coast where relevant, etc).:

The lake was approximately 830 meters away from the Mompong River, approximately 2.6 kilometer north of Libuao Lake, a man-made lake within the Sablayan Prison and Penal Farm (SPPF). It is approximately 6.6 kilometers South-East of the Tabtaban Lake in Brgy. Tuban, Sablayan, Occidental Mindoro.

Map Centroid (mid-point) (Provide the coordinates (in degrees, minutes and seconds) of the approximate centre of the site and/or the limits of the site. If the site is composed of more than one separate area, provide coordinates for each of these areas. *For rivers/creek provide three (3) coordinates taken from the upstream, midstream and downstream of the river main channel):

	Latitude	Longitude
Centroid :	<u>12°50'33.27"N</u>	<u>120°53'46.69"E</u>
*Upstream :	<u>12°50'39.50"N</u>	<u>120°53'55.32"E</u>
*Midstream :	<u>12°50'33.27"N</u>	<u>120°53'46.69"E</u>
*Downstream :	<u>12°50'33.41"N</u>	<u>120°53'35.91"E</u>

Mapping details(Attach GIS generated map in a separate sheet, Projection system: World Geodetic System 1984; Map coordinates: latitude/longitude, in degrees and minutes, refer to Appendix 2 for the required map scale.)

4. Climate: (Overview of prevailing climate type, zone and major features i.e. precipitation, temperature, wind)

Climate Type (Based on PAGASA Classification): Climate Type 1

Climatic Type Description:

LONG DRY SEASON FROM NOVEMBER-JUNE AND
WET SEASON FROM JULY-OCTOBER

Precipitation/Rainfall(in millimeter (mm), average per month; total amount per year; maximum and minimum level):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Minimum (mm)													
Maximum (mm)													
Average (mm)	0.9"	0.7"	0.7"	1.5"	5.2"	10.0"	12.8"	12.6"	10.9"	8.4"	4.9"	3.1"	

Temperature (in Degree Celsius °C, average per month; maximum and minimum level):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)	20.9	20.9	21.3	22.2	22.7	21.7	21.3	21.1	20.9	20.9	20.8	21.0
Maximum (°C)	32.9	33.7	35.1	36.6	35.2	34.0	33.3	32.4	31.9	31.9	33	33.6
Average (°C)	26.7	27.3	28.2	29.4	28.9	27.9	27.3	26.5	26.8	26.4	29.9	27.3

Heat Index (in Degree Celsius °C, average per month; maximum and minimum level):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Minimum (°C)			25									
Maximum (°C)			46									
Average (°C)												

Wind (in kilometer per hour (KPH), major features such as prevailing wind direction, velocity):

WIND SPEED: 2-4 km/h Southeast

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Average	10.9	9.7	8.1	6.1	6.0	7.3	8.3	9.0	7.6	7.2	9.2	11.0

B. BIO-CHEMICO-PHYSICAL INFORMATION

5. Soils:

Geology (How did the wetland evolved? i.e. develop through erosion processes, deposition of sediment on adjacent lands during floods, forces of nature, rivers deposit sediment, rising sea levels, human activities alter drainage patterns, etc.):

Force of nature

Type/order of soils (Based on BSWM nine (9) soil orders recognized in the Philippines, refer to Appendix 3):

ALFISOL, INCEPTISOL

Type of substrates (sandy, muddy, clayey, gravel etc.):

Terrestrial/riparian area: CLAY

Wetland/aquatic area: BANTO CLAY

Soil biology (presence of small organisms, organic debris, organic matter etc.):

Terrestrial/riparian area : _____

Wetland/aquatic area : Organic matter such as leaves and twigs

6. Water regime:

Water source (check the source and write the name and/or location of inflow and outflow):

☐ Surface source

☒ Ground water source

Inflow/s (Name and/or location of wetland/s which flows into the site; show in map, if possible):

N/A

Outflow/s (Name and/or location of wetland/s which flows out of the site; show in map, if possible):

Sitio Marabong Rice Fields (12°50'33.41"N, 120°53'35.91"E)

Ground water classification (for ground water source, indicate the NWRB Groundwater Classification, Appendix 4):

SHALLOW AND DEEP WELLS

7. Flooding:

Flooding vulnerability (flooding vulnerability based on ERDB assessment): No ERDB Assessment Conducted

Flooding susceptibility (rain-induced flooding susceptibility based on MGB): Moderate to High

Flooding frequency (how often does flooding occur within a year?): Flooding occurs during typhoon

Flooding seasonality (in what month/s does flooding usually occur?): Depends on the occurrence of typhoon

Flooding duration (for how long does floodwater usually stay within each season?): 3-5 days (observation by the community near on lake)

Magnitude of flow and/or tidal regime (what is the maximum water level of the flood and how fast does it flows out?):

NO DATA

8. **Water quality** (information can be obtained from EMB regular monitoring if any, or/and conduct of actual field sample collection. Secondary data from other sources could be also used to fill this section):

Waterbody Classification(Based on DENR- EMB Classification): N/A

Parameter	Standard ¹	Minimum ²	Maximum ³	Average ⁴
Biochemical Oxygen Demand (mg/L)				-
Chlorine (mg/L)				-
Color (TCU)				-
Dissolved Oxygen (mg/L)				4.40 mg/ L
Fecal coliform (MPN/100mL)				-
Nitrate as NO ₃ -N (mg/L)				-
pH (range)				4.17 pH
Phosphate (mg/L)				-
Temperature (°C)				30.61 °C
Total suspended solid (mg/L)				-
Turbidity (NTU)				101.97 NTU
Salinity				0.055 ppt
Conductivity				0.12 mS/cm
Other: TDS				0.075 g/L
ORP				406 mV

¹ Based on DENR- DAO 2016-08 Classification

² Lowest value collected in a year

³ Highest value collected in a year

⁴ Average value collected in a year

Source (who conducted the monitoring?)

: ARNP – PAMO / CDS- CENRO Sablayan

Year Data Collected

: APRIL 2023

Sampling Frequency (annual or monthly)

: MONTHLY

9. Noteworthy flora/Plant communities:

Vegetation structure (Describe the physical/morphological structure/appearance of existing vegetation, canopy cover such as open or closed forest):

Soft stem grasses, water lily shrubs species around the lake , bangkal trees.

Vegetation zones(What are the dominant species? Include indicative location of plant communities, tabulate and show in map, use extra sheet if necessary): Please see attached list of Flora and Fauna hereto attached

Zone	Local/ Common Name	Family Name	Scientific Name	Distribution	Conservation Status		Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
					IUCN Red List	Philip- pine Red List (DAO 2017- 11)		
A. Terrestrial/ Riparian (i.e. trees, plant, shrub)	Tan-ag	Sterculiaceae	<i>Kleinhovia hospita</i>	Common in thickets, secondary forests, and deserted clearings at low and medium altitudes throughout the Philippines.	LC			
	Balete	Moraceae	<i>Ficus balete</i>	From Northern Luzon to Mindanao, in most islands and provinces, in primary forests at low and medium altitudes. In Manila, planted as avenue and shade tree.	LC			
	Inyam/ Binayuyo	Phyllanthaceae	<i>Antidesma ghaesembilla</i>	Southeast Asia, South China, India and Tropical Africa.	LC			
	Bangkal	Rubiaceae	<i>Nauclea orientalis</i>	In secondary forests at low and medium altitudes from the Batan islands and Northern Luzon to Mindanao, in most islands and provinces. Cultivated for ornamental purposes.	LC			
	Putat	Lecythidaceae	<i>Barringtonia racemosa</i>	Throughout the Philippines in most or all islands and provinces, occurring in thickets and damp places along the seashore and streams at low altitudes.	LC			
	Narra	Fabaceae	<i>Pterocarpus indicus</i>	Commonly found in primary, and in some areas, secondary forests at low and medium altitudes throughout the Philippines.	EN	Threatened		
	Banaba	Lythraceae	<i>Lagerstroemia speciosa</i>	In most or all islands and provinces, chiefly in secondary forests at low altitudes. Found in the Batan islands and Northern Luzon to Palawan, Mindanao and Sulu Archipelago. Ornamental cultivation.				

	Kalantas	Meliaceae	<i>Toona calantas</i>	In primary forests at low and medium altitudes in the Batan islands, Cagayan to Sorsogon provinces in Luzon; Mindoro, Samar, Negros. Leyte, Cebu and Mindanao.	DD	DD		
	Mulawin	verbenaceae	<i>Vitex parviflora</i>	Indigenous in the Philippines.	LC	En		
	Banuyo	Fabaceae	<i>Wallaceodendron celebicum</i>	Along east coast from Luzon to Mindanao.		Vu		
	Tibig	Moraceae	<i>Ficus nota</i>	In thickets and forests, especially in areas saturated with water, at low and medium altitudes. Occurs in Batan island, Polilo, Mindoro, Culion and Balabac regions of Palawan, Panay, Samar, and Leyte. Used in live fences	LC			
	Akleng Parang	Fabaceae	<i>Albizia procera</i>	Native to the Philippines. It is an aggressive colonizer of abandoned farmlands, pastures roadsides and other highly disturbed areas.	LC			
	Eucalyptus	Myrtaceae	<i>Eucalyptus globulus</i>	Most are native to Australia; a very small number are found in adjacent areas of new Guinea and Indonesia.	LC			
	Bamboo	Poaceae	<i>Bambusa vulgaris</i>	Wide natural distribution occurring from approximately 46 degree N latitude to approximately 47 degree S altitude and from sea level to as much as 4,300 meters (ca.14,000 feet) in elevation in equatorial highlands.				
	Sambong	Asteraceae	<i>Blumea balsamifera</i>	Native to the Philippines. Common in open fields, grasslands and waste areas at low and medium altitudes. Flowering from February to April Propagation by cuttings and layering. from February to April	LC			
	Guava	Myrtaceae	<i>Psidium guajava</i>	Cultivated throughout the tropical and subtropical areas of Africa, South Asia, and South East Asia.	LC			
	Bungar-ngar	Asteraceae	<i>Odorata L.</i>	Native in North America -It has become one of the most invasive weeds of Asia and Africa with consequent economic				

				and ecological burden.				
B. Aquatic (i.e. aquatic trees, plants, macrophytes, phytoplankton)	GRASS Tres cantos	Cyperaceae	<i>Bolbo</i>	Is a cosmopolitan species widespread in the tropics, temperate and subtropical regions; North America, South and Central America, Africa, Eurasia, India, Pakistan, Southeast Asia and Australia.E5	LC			
	Bakong	Hanguanaceae	<i>Hanguana anthelminthica</i>	Throughout the Philippines along sandy seashores; sometimes planted inland. -Ornamental cultivated for its showy flowers.	CE			
	Hyacinth	Asparagaceae	<i>Hyacinthus osmia</i>	Found in South-eastern United States as well as California, Hawaii, and the Virgin Islands. -These plants have established populations in 23 states and 53 countries.	VU			

10. Noteworthy fauna/Animal communities:

Main species present(What are the dominant species? Population size and proportion where known? Indicative location of animal communities. Tabulate and show in map, use extra sheet if necessary):

Class	Local/ Common Name	Family Name	Scientific Name	Population Size	Distribution	Conservation Status		Indicative Location in Wetlands and time of the year abundant	Remarks (i.e. IAS, Rare, Unique, Seasonal, etc.)
						IUCN Red List	Philippine Red List(DAO 2017- 11)		
A. Terrestrial/ Riparian									
Avifauna	Little Egret	Ardeidae	<i>Egretta eulophotes</i>			Threatened			
	Phil. Duck	Anatidae	<i>Anas luzonica</i>		Endemic to Philippine islands and 8 minor islands.		Endangered		
	Barred rail	Rallidae	<i>Gallirallus philippensis</i>		It is found in the Philippine, Indonesia and New Guinea.		Vulnerable		
	Black- naped Oriole	Oriolidae	<i>Oriolus chinensis</i>		Endemic to the Philippines. -Philippine oriole is found in forests, forests edge and second growth in the lowlands.	Threatened			

	Phil Caucal – Sabucot	Cuculidae	<i>Centropus viridis</i>		Medium, sexes, similar, races differ in colour carpenter and mindorensis are all black while viridis and major are black with chestnut wings band in size carpenter and major are larger than viridis and mindorensis.		Endan- gered		
	Large- billed Crow	Corvidae	<i>Corvus macrorhynch os</i>		There are at least 3 or 4 species of crow in the Philippines.	No data	Threat ened		
Mammals	Rats								
	Insect Bats								
Herpetofauna									
Invertebrates									
Others									
B. Aquatic									
Fish	Tilapia	Cichlidae	Oreochromis		In Philippines, several species of tilapia hve been introduced into local waterways and are formed for food	LC			
	Dalag	Ophiceph alidae	<i>Channa striata</i>		Mudfish's are found in wetlands, swamps, drains and springs. They typically live in still or slowly flowing, shallow water, with thick aquatic vegetation and overhead cover.	Threa thene d			
	Hito	Ictaluridae	<i>Silurifromes</i>						
Mammals									
Herpetofauna									
Invertebrates									
Others									

C. WETLAND BENEFITS

11. **Ecosystem services:** (Fill up the corresponding box for the applicable wetland function/benefit based on the list of relevant ecosystem services provided in the site. Include a key phrase/words describing the importance of the wetland and the relative location where the service is provided. Refer to Appendix 5 for the Guidance Note.)

RAPID ASSESSMENT OF WETLAND ECOSYSTEM SERVICES FIELD ASSESSMENT SHEET

Key How important?

++ Potential significant positive benefit

+ Potential positive benefit

0 Negligible benefit

- Potential negative benefit

-- Potential significant negative benefit

		How important?	Describe benefit	Scale of benefit		
				Local	Regional	Global
Provisioning Services	Fresh water	+		/		
	Food	+		/		
	Fuel	-		/		
	Fibre	-				
	Genetic resources					
	Natural medicines or pharmaceuticals	+	Herbal medicine (Banaba, Paragis)	/		
	Ornamental resources	0				
	Clay, mineral, aggregate harvesting	0				
	Waste disposal	0				
	Energy harvesting from natural air and water flows	0				
Regulatory Services	Air quality regulation	+		/		
	Local climate regulation	+		/		
	Global climate regulation	+		/		
	Water regulation	+		/		
	Flood hazard regulation	+		/		
	Storm hazard regulation	+		/		
	Pest regulation	-				
	Disease regulation-human	0				
	Disease regulation-livestock	0				
	Erosion regulation	+		/		
	Water purification	+		/		
	Pollination	+		/		
	Salinity regulation	0				

		Scale of benefit				
		How important ?	Describe benefit	Local	Regional	Global
	Fire regulation	+		/		
	Noise and visual buffering	0				
Cultural Services	Cultural heritage	0				
	Recreation and tourism	+	Ecotourism Opportunity	/		
	Aesthetic value	+	Landscape/ Lake view	/		
	Spiritual and religious value	0				
	Inspiration value	0				
	Social relations	+	Establishment of MACORMA / PO	/		
	Educational and research	+	Fish and Shrimp species / other fauna	/		
Supporting Services	Soil formation	+		/		
	Primary production	+	Crops / Fish			
	Nutrient cycling	++	Nitrogen and Oxygen	/	/	
	Water recycling	++	Water cycle	/	/	
	Provision of habitat	++	Wildlife (Flora and Fauna) species	/	/	
Notes:						

Remarks/Other Information(on the importance of the particular wetland): _____

D. MANAGEMENT INFORMATION

12. Land use:

Local land use(including adjacent settlements, agricultural areas, industries etc.): Marabong Community Settlement, Agriculture Areas (Rice Field and Fishing)

Land use in the river basin : Irrigation and Fishing (Baklad and Hook and Line) and/or

Land use in the coastal zone : N/A

13. Existing pressures/threats and trends(concerning any of the features listed above, and/or concerning ecosystem integrity):

Over and unregulated fishing, unregulated conversion of forest areas to agriculture

14. Conservation and management status of the wetland (List down the legal instruments and social or cultural traditions that influence the management of the wetland; including protected area categories according to the IUCN system and/or any national system and other existing management interventions):

Republic Act 9147 or Wildlife Protection and Conservation Act of 2001

Republic Act 11038 or Expanded NIPAS Act of 2018

Local Ordinance of Brgy. Batong Buhay

15. Existing Management plans and monitoring programs: (Indicate presence and list down the management plans and monitoring programs in place and planned within the wetland and in the river basin and/or coastal zone)

With ongoing , management planning by the MACORMA (Marabong Community Resource Mgt. Association-PO) with the Sablayan MENRO.

16. References(Full citation)

17. Compiler/Contact/Focal person(including contact information: office address, telephone number; fax, email address, etc.)

Name	Designation	Office	Contact Number	Email
Merlie O. Barrera	CDS Staff.	DENR-CENRO SBY.	09669470069	merliebarrera@gmail.com

Date Accomplished: APRIL 28, 2023

E. ASSESSMENT AND RECOMMENDATIONS

18. Potential Threats:

Natural Calamities that may cause Flooding and Erosion/ Siltation to the lake

Unsustainable and unregulated use of resources

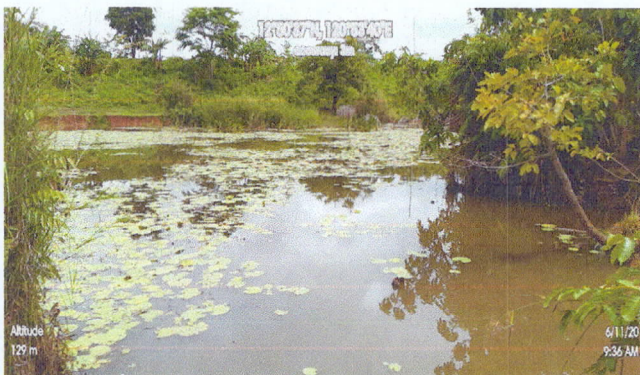
19. Management Prescriptions/Proposed Management Interventions:

Crafting and implementation of Marabong Lake Management Plan in accordance to BMB Technical Bulletin No. 2016 – 10.

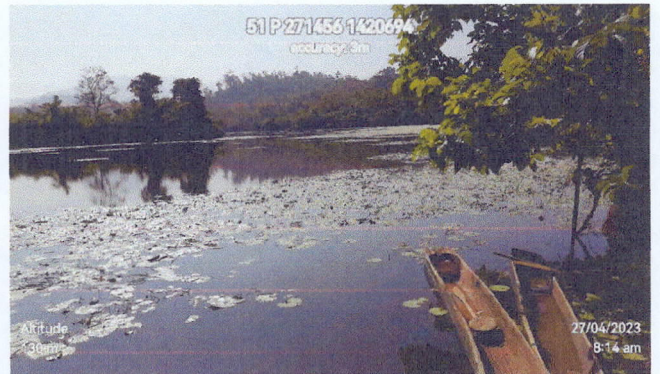
20. Proposed Classification*(which portions are relevant or critical for management for)*

Classification	Description	Relative location (Mention which part of the wetland where the service is provided)
<input checked="" type="checkbox"/> Food production	Permanent Freshwater lake. Regulating the utilization and introduction of species of fish plan to release in the lake.	General part of the lake (upstream to downstream)
<input checked="" type="checkbox"/> Water regulation	Permanent Freshwater lake. Regulation in the use of water as irrigation to avoid the depletion of resources valuable during summer season.	General part of the lake (upstream to downstream)
<input type="checkbox"/> Disaster mitigation		
<input type="checkbox"/> Biodiversity importance*		

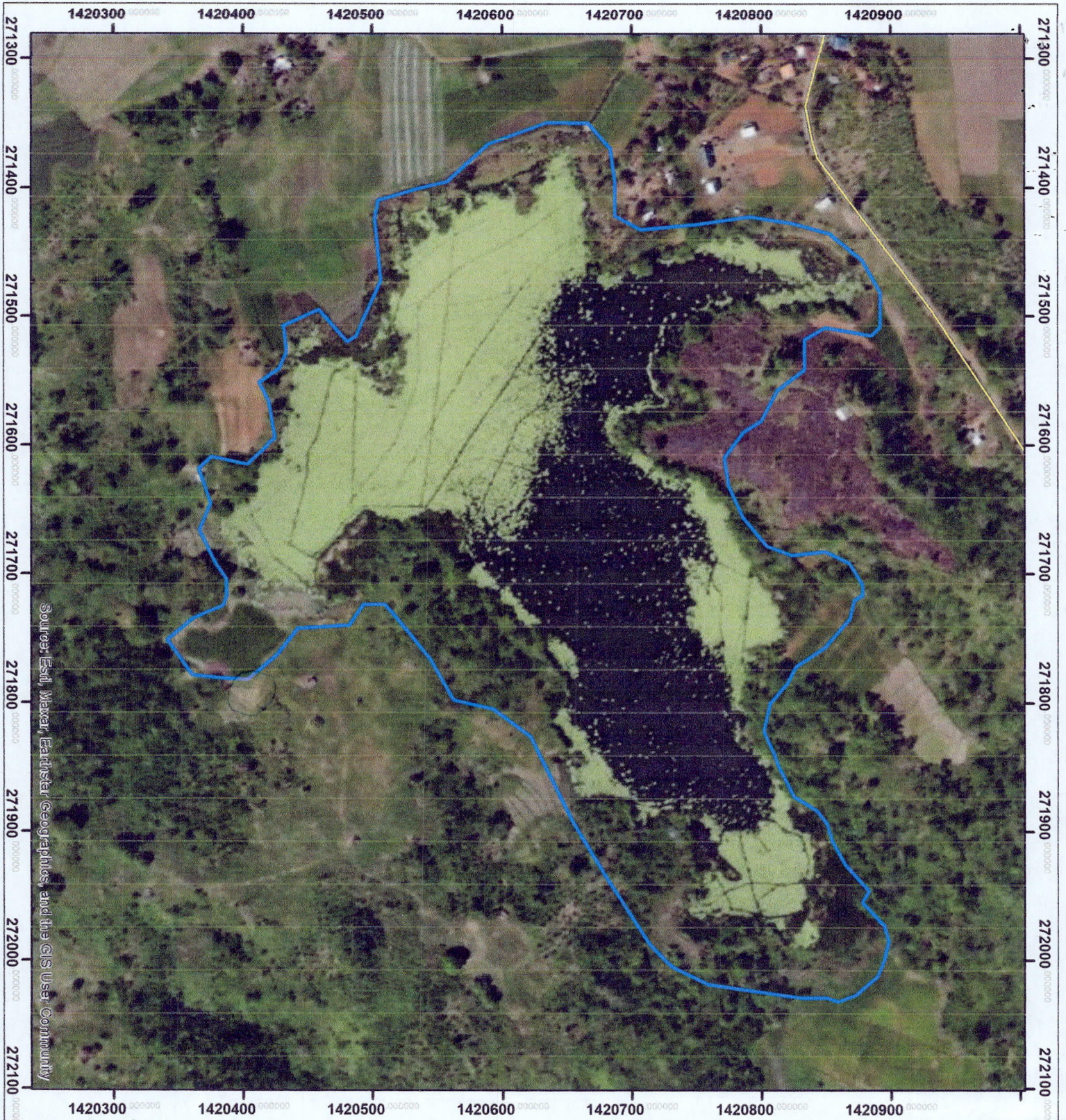
* Based on criteria mentioned in DMC 17 series of 1997.





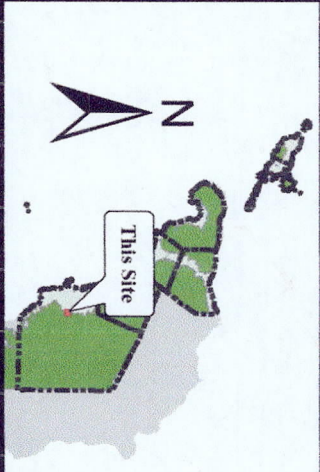




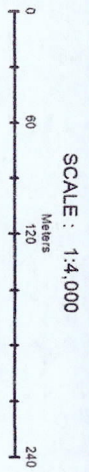


Source: Esri, Maxar, Earthstar Geographies, and the GIS User Community

Inland Wetland Profiling MARABONG LAKE



LOCATION MAP

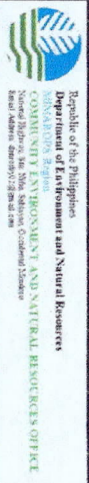


LOCATION

Barangay : Batongbuhay
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 20 ha

LEGEND

- Road
- Marabong_Lake



CERTIFICATION

This is to certify that the profile and cross map are true and correct as shown on the attached data, maps, and other documents as well as the field notes.

Prepared by:

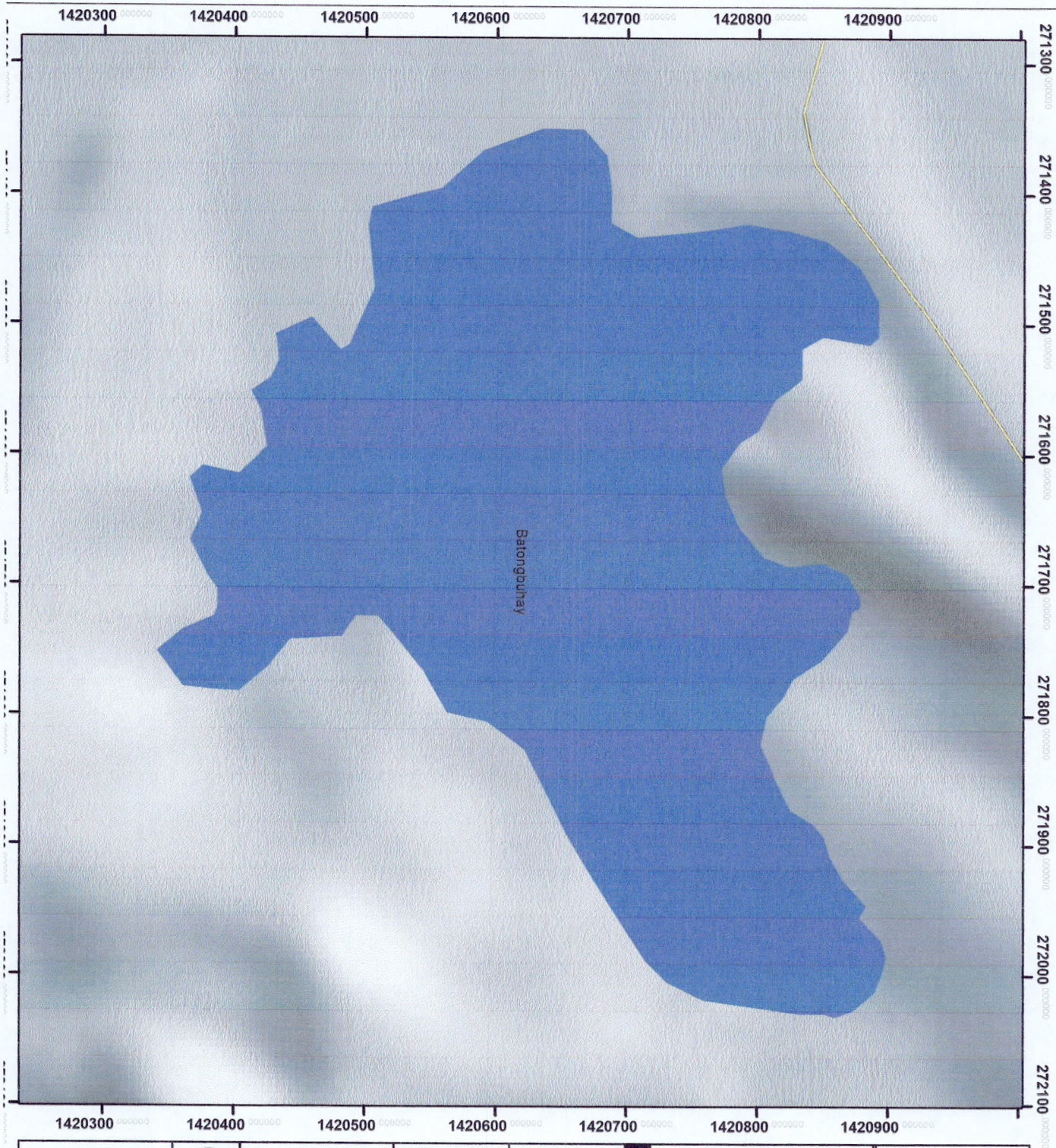
JOSEPH A. SANTO
ECOSYSTEMS Unit Manager

Reviewed by:

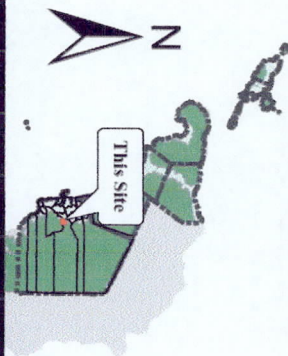
HERNAN C. CATINO
ECOSYSTEMS Unit Chief

Verified by:

J. SANTO
ECOSYSTEMS Unit Chief



ADMINISTRATIVE MAP MARABONG LAKE



LOCATION MAP

SCALE : 1:4,000



Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : Batongpuhay
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 20 ha

LEGEND

- Road
- BRGY_BNDY Drawing
- Marabong_Lake



Republic of the Philippines
Department of Environment and Natural Resources
MARABONG REGION
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Rural Address: Batongpuhay, Sablayan, Occidental Mindoro

CERTIFICATION

This map meets the standards and accuracy
requirements of the Department of Environment and Natural Resources

Prepared by:

JOSEPH M. MATO

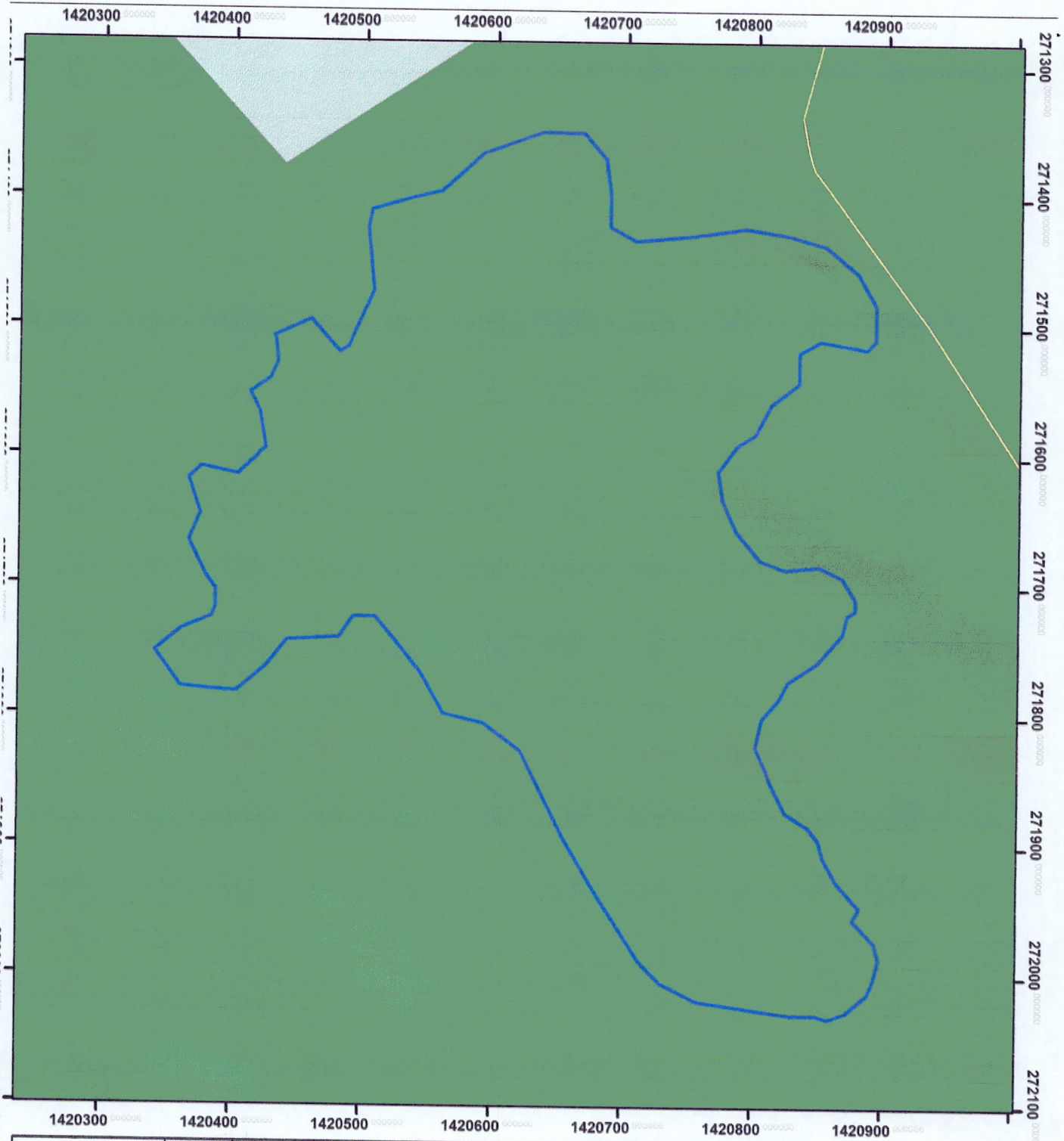
ESCALON 1st Lt. Member

Validated by:

JOSEPH M. MATO

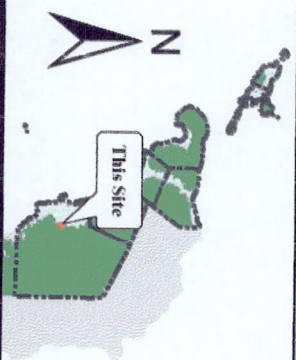
HERNANDEZ, CARLO
ESCALON 1st Lt. Member

ESCALON 1st Lt. Member



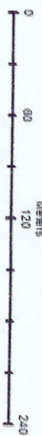
LAND CLASSIFICATION MAP

MARABONG LAKE



LOCATION MAP

SCALE : 1:4,000



Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : Batongbuhay
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 20 ha

LEGEND

- Road
- Marabong Lake
- Alienable and Disposable
- Forestland



Republic of the Philippines
Department of Environment and Natural Resources
Cordillera Region
BAGUIO CITY
BAGUIO CITY OFFICE
Forest Management Division

CERTIFICATION

This is to certify that the map and accompanying data are true and correct as shown on the field notes and as approved by the office.

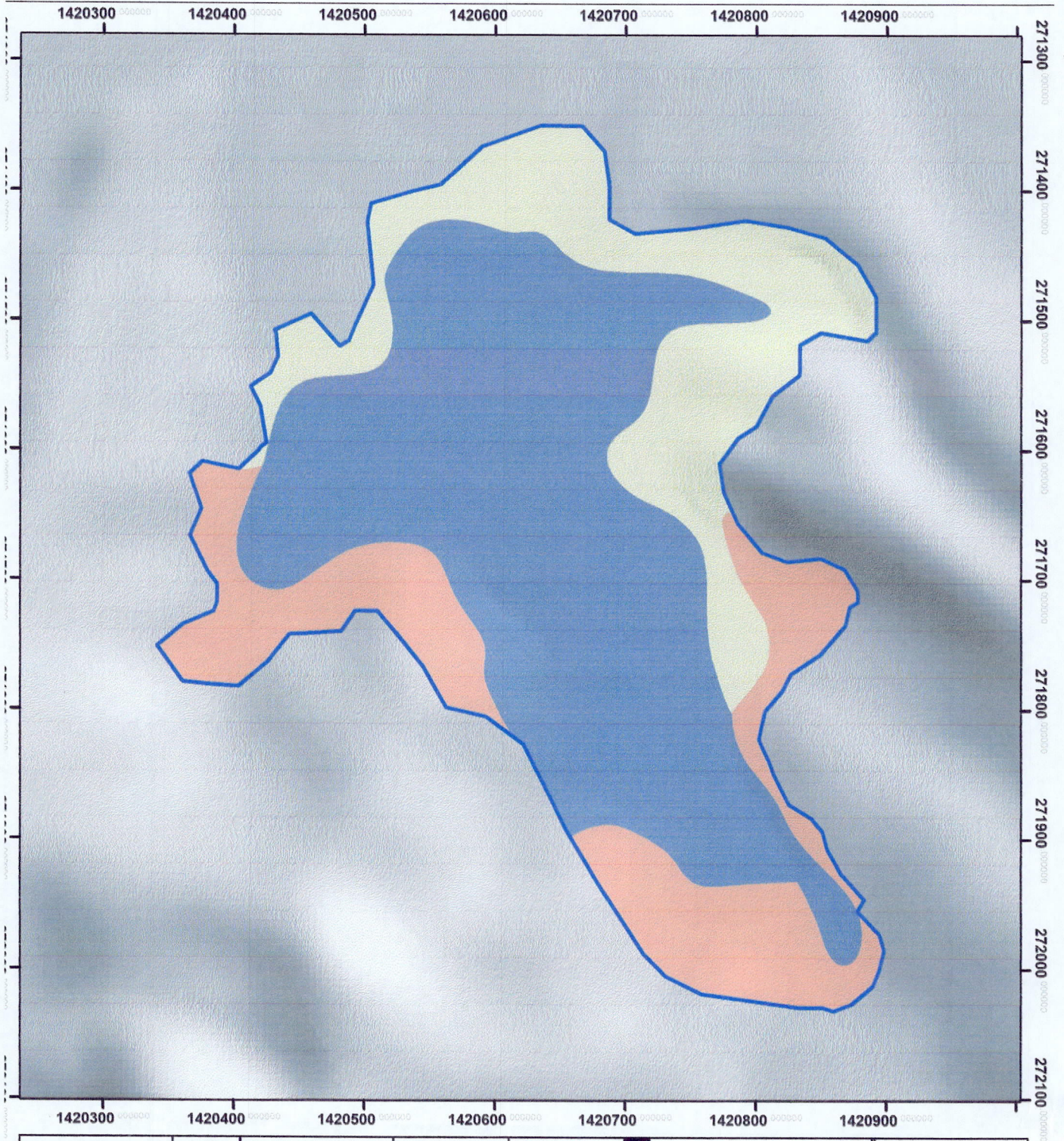
Prepared by:

[Signature]
JENNIFER L. SANTO
ECONOMIC ZONING DIVISION

Reviewed by:

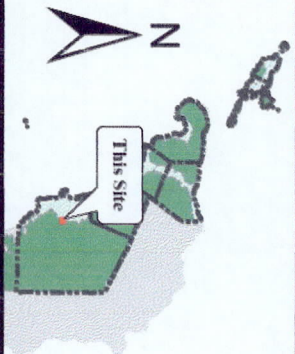
[Signature]
JENNIFER L. SANTO
ECONOMIC ZONING DIVISION

[Signature]
JENNIFER L. SANTO
ECONOMIC ZONING DIVISION



LAND COVER MAP

MARABONG LAKE



LOCATION MAP

SCALE : 1:4,000



Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984

LOCATION

Barangay : Batongpohay
Municipality : Sablayan
Province : Occidental Mindoro
AREA : 20 ha

LEGEND

- Marabong_Lake
- Annual Crop
- Brush/Shrubs
- Inland Water



Republic of the Philippines
Department of Environment and Natural Resources
NATIONAL GOVERNMENT
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Rural Water Development Division

CERTIFICATION

This map was prepared using
the latest available data and maps, and after due diligence
has been made to ensure its accuracy.

Prepared by:

Checked by:

Verified by:

Reviewed by:
ERSON, J. S. SANTOS
ECONOMICS & COMMUNITY
Development Division Chief

Approved by:
[Signature]
[Signature]

U-50PC DataFile	Version	1	7								
No.	SITE	Date	Time	Latitude	Longitude	Temperature	10	pH	1	pHmV	24
1	MARABONG	4/27/2023	8:21:11	12 50 25 N	120 53 44 E	30.53	°C	4.17	pH	152	mV
2	MARABONG	4/27/2023	8:37:44	12 50 25 N	120 53 44 E	30.52	°C	3.67	pH	183	mV
3	MARABONG	4/27/2023	8:40:35	12 50 25 N	120 53 44 E	30.81	°C	3.91	pH	168	mV
4	MARABONG	4/27/2023	8:41:42	12 50 25 N	120 53 44 E	30.6	°C	3.86	pH	171	mV

No.	SITE	ORP	2	Conductivity	6	Turbidity	3	Dissolved Oxygen	4	DO%	22
1	MARABONG	390	mV	0.12	mS/cm	98.4	NTU	5.71	mg/L	-	-
2	MARABONG	369	mV	0.11	mS/cm	184	NTU	4	mg/L	-	-
3	MARABONG	474	mV	0.126	mS/cm	44.3	NTU	4.35	mg/L	-	-
4	MARABONG	391	mV	0.106	mS/cm	81.2	NTU	3.57	mg/L	-	-

No.	SITE	TDS	8	Salinity	7	Specific gravity	9	Depth	11	---	0
1	MARABONG	0.078	g/L	0.06	ppt	0	Sigmat	0.3	m	-	-
2	MARABONG	0.072	g/L	0.05	ppt	0	Sigmat	0.7	m	-	-
3	MARABONG	0.082	g/L	0.06	ppt	0	Sigmat	0.4	m	-	-
4	MARABONG	0.069	g/L	0.05	ppt	0	Sigmat	1.6	m	-	-

Concured by:

ISASA, R. GUIMOD
DMO IV, Deputy CENRO