

**MEMORANDUM**

FOR : **The Regional Executive Director**
DENR MIMAROPA Region

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

FROM : **The OIC-PENR Officer**

SUBJECT : **SUBMISSION OF REPORT ON SURVEY, MAPPING AND PLANNING (SMP) CONDUCTED UNDER ENHANCED NATIONAL GREENING PROGRAM FOR CY 2022 WITHIN THE JURISDICTION OF PENRO MARINDUQUE**

DATE :

Respectfully, submitted is the report on the survey, mapping and planning conducted under Enhanced NGP for CY 2022 within the jurisdiction of PENRO Marinduque.

For information and further instruction.


IMELDA M. DIAZ



MEMORANDUM

FOR : **The OIC- PENR Officer**

THRU : **The Chief, Technical Services Division**

FROM : **The PENRO – CDS/NGP Unit**

SUBJECT : **SUBMISSION OF REPORT ON SURVEY, MAPPING AND PLANNING (SMP) CONDUCTED UNDER ENHANCED NATIONAL GREENING PROGRAM FOR CY 2022 WITHIN THE JURISDICTION OF PENRO MARINDUQUE**

DATE : **JUNE 25, 2022**

In compliance with the target activities under Enhanced NGP for CY 2022, respectfully submitting is the result of conducted Surveying, Mapping and Planning (SMP) for the identified potential area of comprehensive site development in CY 2023 implementation, to wit:

I. ACTIVITIES UNDERTAKEN

A. Conduct of Consultation and Information Education, Communication (IEC) Campaign

Last November 25- 26, 2021, NGP Staff conducted the IEC and Focus Group Discussion (FGD) in Brgy. Talawan, Brgy. Malibago, Torrijos and Brgy. Sabong, Boac, Marinduque regarding NGP Project targeted for CY 2022 and CY 2023. Discussion during the meeting focused on Technical Bulletin No. 1A, 1B and 30 (Family Approach). Important information regarding the implementation of e-NGP project and the detailed role of the LGUs/community member was emphasized to the Sangguniang Barangay Officials and selected community members present. As agreed, SMP is set in the first quarter and presentation of the result for planning in a community meeting. Also, the concerned LGU to join the survey/assess the identified area together with the NGP/Survey Team.

On March 15, 2022, another meeting was held to discuss the result of the SMP likewise presented all the GIS maps generated from the surveyed area. All the identified areas are potential for Agroforestry Plantation.

Barangay Sabong, Boac was excluded from the list and replaced by Brgy. Sibuyao since it is the area adjoining the Brgy. Talawan, Torrijos and not the former as identified in the initial SMP in 2019, conducted by the NGP Regional Office.

B. Conduct of Soil Sampling and Soil Analysis

ERDB Technical Bulletin No. 2018-01 was used for gathering soil sampling and conduct of soil analysis. This technical bulletin provides the proper way of collecting soil samples, the methods used in the analysis of soil and how to interpret the results of the analysis.

Three (3) barangays were subjected for soil sampling and soil analysis- Brgy. Malibago, Sibuyao and Talawan, Torrijos.

○ Soil Sample Collection

The soil sample collection was done in January 2022 by the NGP Staff, respective LGU's and hired laborer in the three (3) Barangays - Brgy. Malibago, Brgy. Talawan and Brgy. Sibuyao, Torrijos. Soil sampling is determined in the three (3) sampling points per area located in the higher, middle and lower elevation. There are three (3) sampling points identified in each area assessed. Other factors considered were topography, existing vegetation, drainage and soil texture. Also, the GPS reading of each sampling points were taken. The collected soil samples were properly labeled for soil analysis.

Table 1. Location of the area surveyed/assessed.

Brgy. Malibago, Torrijos	
Upper	13°17'40"N, 121°59'37"E
Middle	13°17'40"N, 121°59'44"E
Lower	13°17'26"N, 122°0'1"E
Brgy. Sibuyao, Torrijos	
Upper	13°19'34"N, 121°0'23"E
Middle	13°19'19"N, 121°0'40"E
Lower	13°19'26"N, 122°0'34"E
Brgy. Talawan, Torrijos	
Upper	13°19'18"N, 122°0'32"E
Middle	13°19'21"N, 122°0'12"E
Lower	13°19'11"N, 122°0'20"E



Soil sample collection conducted in Barangay Malibago, Torrijos Marinduque.



Soil sample collection conducted in Barangay Sibuyao, Torrijos Marinduque.



Soil sample collection conducted in Barangay Talawan, Torrijos Marinduque.

○ Soil Analysis

The collected soil samples in every barangay were spread on a labeled paper. It was air dried at room temperature and crashed the clods occasionally. This is done before the soil samples were analyzed for various parameters such as soil pH, Nitrogen, Phosphorus, and Potassium using Soil Test Kit (STK). The activity was completed in February 2022.

Data Analysis and Interpretation

Soil Physical Properties

The result of soil analysis for the potential area identified for enhanced NGP revealed that the three (3) Barangays have almost the same soil physical properties.

Table 2. Data interpretation for Soil Physical Properties

	Malibago	Talawan	Sibuyao
Soil texture	Clay loam	Clay loam	Clay loam
Soil Drainage	Medium water transportability	Medium water transportability	Medium water transportability
Topography	Flat , Sloping or hilly	Flat	Sloping or hilly
Existing vegetation	Grassland, shrubs coconut plantation, forestland/timberland	Grassland, shrubs coconut plantation, forestland/timberland	Grassland, shrubs coconut plantation, forestland/timberland

Soil Chemical Properties

The result of the soil chemical properties showed that Brgy. Malibago has high nitrogen level, Brgy. Talawan has medium nitrogen level and Brgy. Sibuyao has a low nitrogen (N) level. Nitrogen is a major element needed for plant growth. The lack of nitrogen in plants may result to stunted growth, yellowing of leaves, produced smaller flowers/fruits and sometimes die at early stage. There are some factors that may affect the nitrogen level in the soil, for example is leaching due to heavy rainfall.

On the other hand, the soil phosphorus (P) content in Brgy Talawan and Brgy. Sibuyao is low while in Brgy. Malibago, it has medium level. This may be affected by the soil pH, amount of organic matter and proper placement of phosphorus fertilizer. If soil is too acidic, phosphorus reacts with iron and aluminum that makes it unavailable to the plants. But if soils are too alkaline, phosphorus reacts with calcium and also becomes inaccessible.

Another soil chemical property analyzed using the soil test kit is the level of potassium (K). For the three (3) barangays, the presence of potassium is sufficient. A good indicator that the movement of water, nutrients and carbohydrates in plants happens substantial for the growth and development.

Soil pH is a measure of the acidity or alkalinity of a soil. The three (3) barangays have slightly acidic soil pH. Forest trees prefer slightly acidic to neutral soils.

With these test, we can determine the species appropriate to the area as well as the interventions on how to improve the soil condition of the targeted e-NGP sites.

Table 3. Data for Soil Chemical Properties

	Brgy.Malibago	Brgy.Talawan	Brgy. Sibuyao
Soil N	High	Medium	Low
Soil P	Low	Low	Low
Soil K	Sufficient	Sufficient	Sufficient
Soil pH	Slightly acidic	Slightly acidic	Slightly acidic

C. Survey, Assessment and Preparation of GIS-generated map of all planting sites programmed to be established for succeeding year of implementation.

All identified planting sites had been subjected to perimeter survey by NGP staff together with the representatives from each barangays. GIS- generated map in shape file format was also completed by GIS mapper- Forest Technician II Carlo M. Watiwat (please see annex 1).

A total of 151.6531 hectares is identified as potential area for reforestation in CY 2023, located in the Municipality of Torrijos particularly in Brgy. Malibago with 44.1480 hectares, Brgy. Talawan with 63.4906 hectares, and Brgy. Sibuyao with 44.0145 hectares. All areas are suited for Agroforestry Plantation. The total area to be developed for the protection forest is 87 - hectares and 62 - hectares for the production forest. Narra, Batino, Wisak, Bacan and Molave are some of the identified indigenous forest tree species to be planted in the protection zone while Jackfruit, Cacao, Avocado, Calamansi and Rambutan are other fruit trees identified for the production zone.

Table 4. Identified potential area for reforestation in CY 2023

LOCATION	AREA (Has.)
Malibago,Torrijos	44.1480
Talawan,Torrijos	63.4906
Sibuyao,Torrijos	44.0145
TOTAL	151.6531

Vegetation

The vegetation found in the area are grasses, shrubs, perennial and annual crops. Ipil-ipil, Narra and Gmelina trees were noticed in Brgy. Sibuyao and Brgy. Talawan. The type of forest found in the area is Dipterocarp forest. It is usually dominated with premium species like White Lauan, Red Lauan, Narra, Wisak, and Batino.

Topography

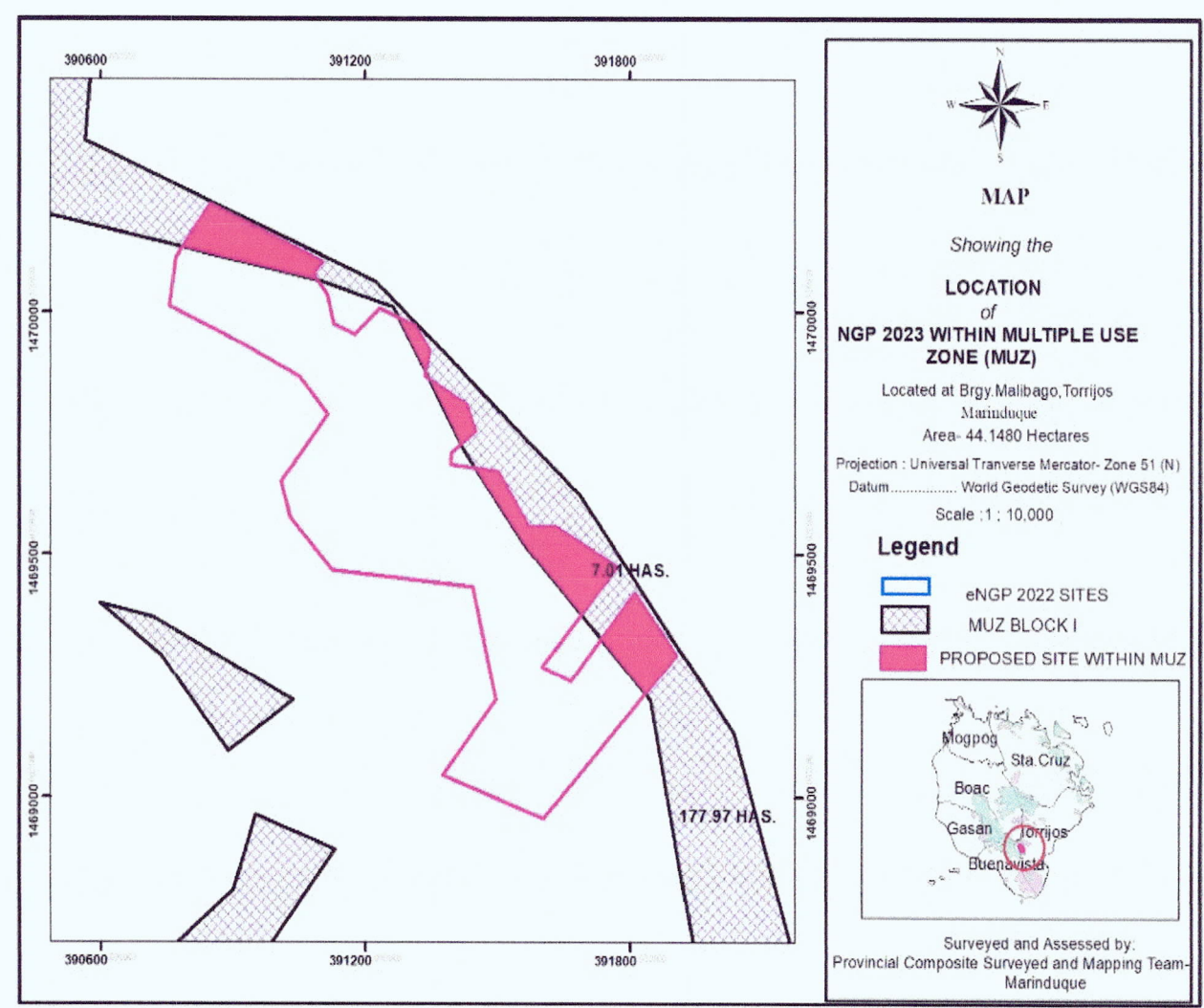
The highest elevation in the identified/targeted areas ranged from 450 -550 meters while the lowest elevation is 150-250 meters. The large portion of the area has an elevation of 250-350 meters above sea level (masl).

Table 5. Elevation Category of the 151.6531 hectares

Barangay	Elevation Category			
	150-250 m	250-350 m	350-450 m	450-550 m
Malibago	0.428 has	26.0716 has	17.6396 has	0.0087 has
Talawan	0.428 has	26.0716 has	17.6396 has	0.0087 has
Sibuyao	7.6303 has	39.6024 has	16.2579 has	none

Only the identified area in Barangay Malibago falls within the Protected Area - Multiple Use Zone (MUZ).

Figure 1. Map showing the area located within Multiple Use Zone (MUZ)



Forest Occupants in the proposed e-NGP Area

There are twenty (20) tenured migrants occupying an area of 75.42 hectares in the identified potential e-NGP for site development. At present, the status of the tenurial instrument of the holders have already expired.

Table 6. No. of Tenured Migrants in the Proposed Area

Barangay	No. of claimants	Total Area Occupied (Has)	Total Area (Has.)
Malibago	10	5.87	44.1480
Talawan	4	35.9	63.4906
Sibuyao	6	33.6	44.0145
Total	20	75.37	151.6531

D. Planning

The target planting and budget requirement necessary for the different activities to be undertaken from year 1 to year 3 is indicated below, to wit:

Table 7. WFP for Comprehensive Site Development of 150 hectares Agroforestry Project

Activities	Target /Quantity	Total Budget	Breakdown of Physical Target CY 2023				
			Q1	Q2	Q3	Q4	Total
1. Seedling Production	85,375	1,737,500.00		85,375			85,375
<i>Indigenous Trees</i>	54,375	652,500.00		54,375			54,375
<i>Other Fruit Trees</i>	31,000	1,085,000.00		31,000			31,000
2. Site Preparation and planting, including construction of firelines	149 ha	968,500.00			149 ha		149 ha
<i>Indigenous Trees</i>	87	565,500.00			87		87
<i>Other Fruit Trees</i>	62	403,000.00			62		62
3. First Year Maintenance & Protection	149 ha	298,000.00				149 ha	149 ha
Total		3,004,000.00					

Table 8. WFP for Year 2 M&P of 149 hectares Agroforestry Project

Activities	Target /Quantity	Total Budget	Breakdown of Physical Target CY 2022				
			Q1	Q2	Q3	Q4	Total
1. Maintenance & Protection Activities							
<i>Ring Weeding & Re-staking painted</i>	59,762	358,572.00		17,928	29,881	11,953	59,762
<i>Replanting including seedling production</i>							
<i>Indigenous Trees</i>	16,312	163,120.00		4,893	8,156	3,263	16,312
<i>Other Fruit Trees</i>	9,300	93,000.00		2,790	4,650	1,860	9,300
<i>Patrol Works & Inventory</i>	149 ha	130,308.00	149	149	149	149	149
Total		745,000.00					

Table 10. WFP for Year 3 M&P of 149 hectares Agroforestry Project

Activities	Target /Quantity	Total Budget	Breakdown of Physical Target CY 2022				
			Q1	Q2	Q3	Q4	Total
1. Maintenance & Protection Activities							
<i>Ring Weeding & Re-staking painted</i>	59,762	358,572.00		17,928	29,881	11,953	59,762
<i>Replanting including seedling production</i>							
<i>Indigenous Trees</i>	16,312	163,120.00		4,893	8,156	3,263	16,312
<i>Other Fruit Trees</i>	9,300	93,000.00		2,790	4,650	1,860	9,300
<i>Patrol Works & Inventory</i>	149 ha	130,308.00	149	149	149	149	149
Total		745,000.00					

The involvement and participation of the LGUs concerned, community members, and among other stakeholders will be encouraged in the implementation of the project. And such activities of meetings, forum and/or workshops, ocular visitation of the area will be done to regularly monitor the project implementation. Technical assistance from the NGP Staff will be provided from the start of the project until its end.

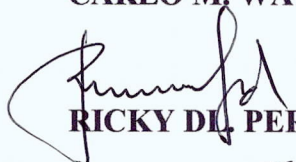
E. Appendices

- GIS- maps
- Tabulated Information

For information, records and further instruction.


WILSON R. PAEZ


CARLO M. WATIWAT


RICKY D. PEREDA

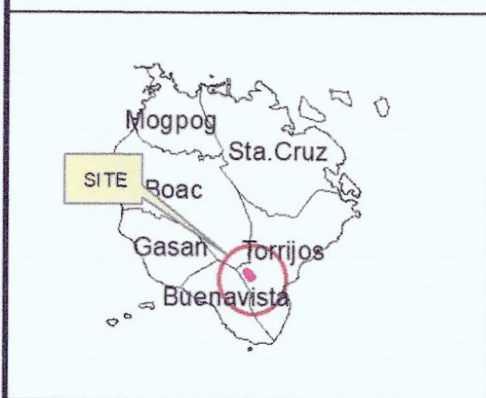
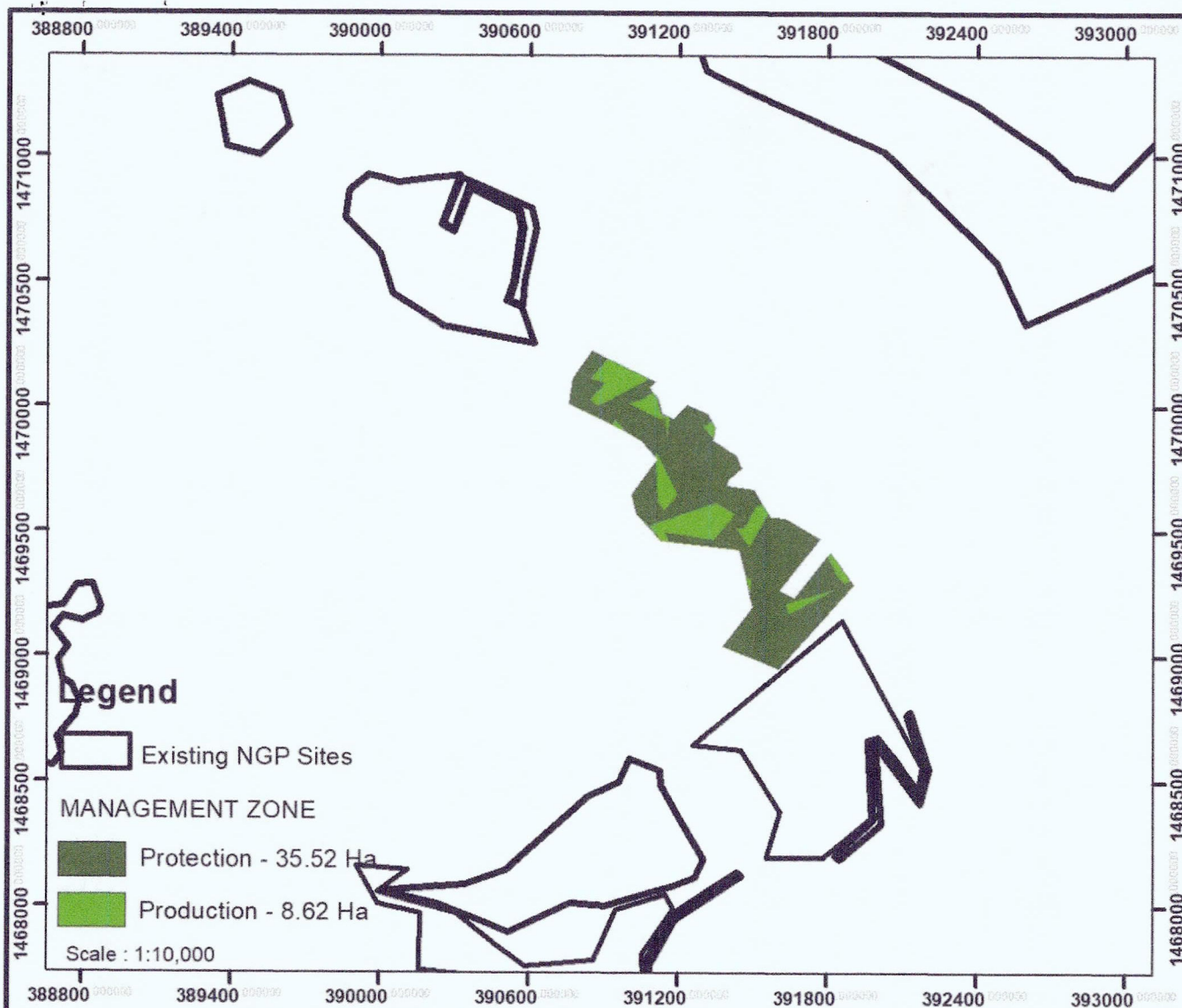

JOE VERT N. BEATRIZ

Noted by:


MARIA ELENA M. PARAÑAQUE
For. I/NGP Coordinator

SMP of the Identified Potential Areas for Enhanced NGP CY 2023

Location	Total Area for Reforestation (ha)	Total Area Based on SMP (ha) conducted		Seedling Distribution		Total Seedlings	No. of Occupants in the Area	Total Area Occupied (ha)	Identified Species to be Planted	Proposed Year of Plantation Development
		Protection Forest	Production Forest	Indigenous Forest Trees	Other Fruit Trees					
Brgy. Malibago, Torrijos	44.1	36	8	22,500	4,000	26,500	10	5.87	Bacan/Batino/ Molave/Wisak/ Avocado/Cacao/ Calamansi/ Langka/ Rambutan	CY 2023
Brgy. Sibuyao, Torrijos	44	18	26	11,250	13,000	24,250	6	36.6	Narra/Molave/ Cacao/Calamansi/ Coffee/Guyabano/ Langka/	CY 2023
Brgy. Talawan, Torrijos	63.5	33	30	20,625	15,000	35,625	4	35.9	Bacan/Batino/ Molave/Wisak/A vocado/Cacao/ Calamansi/ Langka/ Rambutan	CY 2023
Total	151.6	87	64	54,375	32,000	86,375	20	78.37		

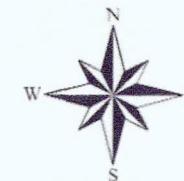


CERTIFICATION

We certify that this is the correct map of the area subject for reforestation per survey and assessment conducted by this office. The information provided herein are true and correct to the best of our professional knowledge and judgement.

CYNTHIA LOZANO
Chief, Technical Services Division
Date: _____

IMELDA M. DIAZ
PENR Officer
Date: _____



NGP SITE MAP AND INFORMATION

REGION: MIMAROPA
DISTRICT: LONE DISTRICT
PENRO: MARINDUQUE
CENRO: NONE
BARANGAY: MALIBAGO
MUNICIPALITY: TORRIJOS
PROVINCE: MARINDUQUE
NAME OF ORGANIZATION: LGU MALIBAGO
CONTACT PERSON: SABINO ROJO
TYPE OF ORGANIZATION: LGU
COMPONENT: AGROFORESTRY AND REFORESTATION
COMMODITY: TIMBER, AND FRUIT TREES
SPECIES: NARRA, BATINO, WISAK, BACAN, MOLAVE, JACKFRUIT, CACAO, AVOCADO, CALAMANSI, RAMBUTAN
MANAGEMENT ZONE: PRODUCTION AND PRODUCTION
WATERSHED: NONE
TOTAL AREA: 44.1480 HA
REMARKS: PROTECTED AREA-MARINDUQUE WILDLIFE SANCTUARY

CLIMATE

Climate Type: Type 3
Average Monthly Rainfall: 20.10 mm
Monthly Average Temperature: 25.9 Celsius

TOPOGRAPHY

Lowest Elevation: 230 meters
Highest Elevation: 450 meters
Slope Category:
0-8% - 0.05 Hectares
8-18% - 12.2951 Hectares
18-30% - 29.1372 Hectares
30-50% - 2.6657
over 50% - None

VEGETATION

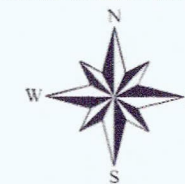
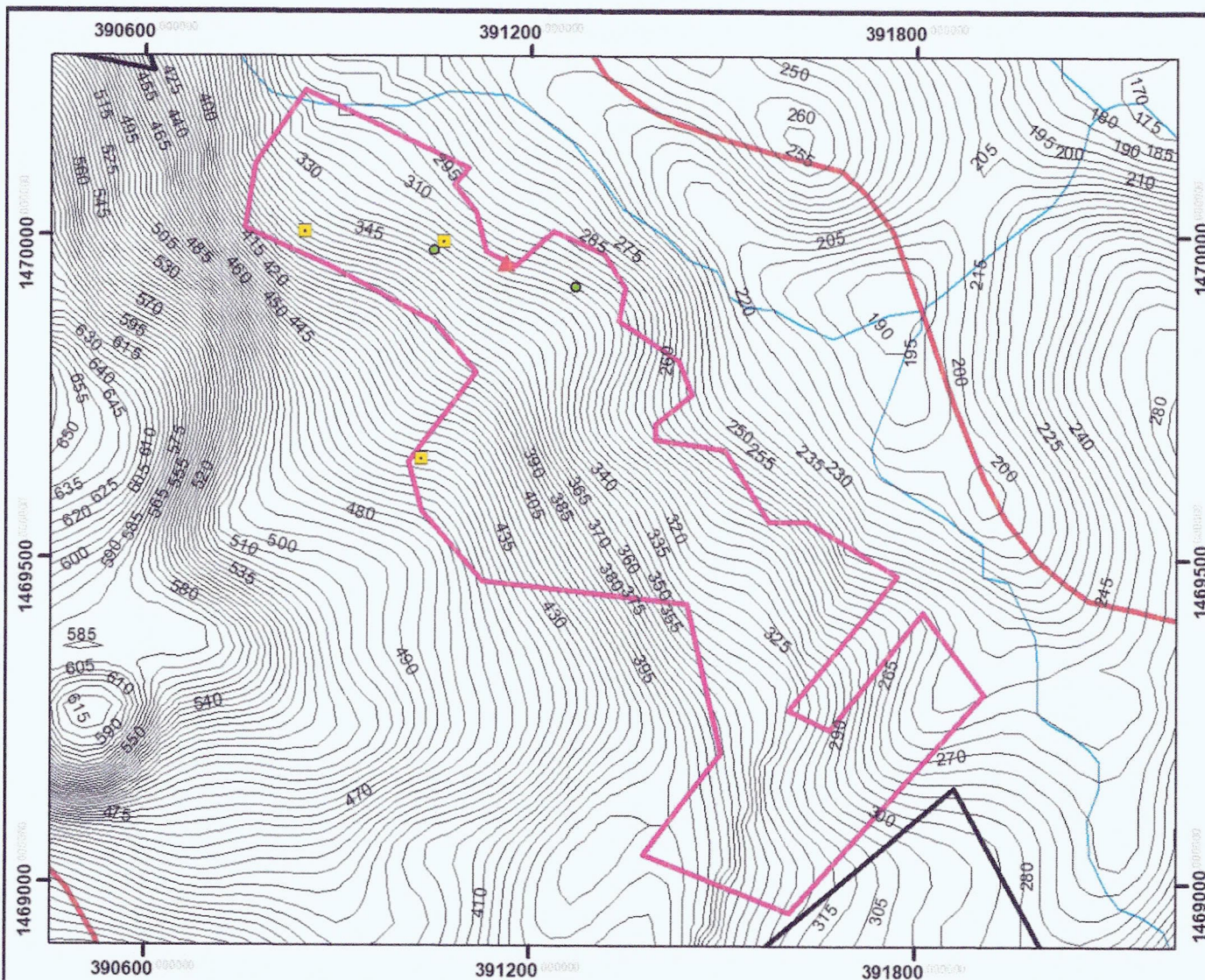
Present Landuse/Cover: Grass, Shrubs, forest, Perennials and Annual Crops
Original Forest Type in the area: Dipterocarp Forest
Dominant Species in the site: White Iauan, Red Iauan, Wisak, Bacan and Batino

SOIL

Soil Texture: Clay and Loam
Soil Drainage: Excessive
Soil Compaction: Moderate Compact
Soil pH: 5.8
Soil Nitrogen: High
Soil Phosphorus: Medium
Soil Potassium: Sufficient

SOCIO-ECONOMIC AND DEMOGRAPHIC PROFILE

Number of Households by ethnicity: N/a
Number of Residents/Occupants: 10



MAP

Showing the detailed information of
NGP 2023 MALIBAGO

GENERAL INFORMATION

Location: Brgy. Malibago, Torrijos, Marinduque
Area : 44 1480 Hectares
Within Watershed : No
Within Protected Area : Yes
Distance from the end of accessible road : 40 meters
Is the site subject to previous reforestation : No
Is the site has existing claimant or occupant : Yes

CLIMATE

Climate Type : Type 3
Average Monthly Rainfall : 20 10 mm
Monthly Average Temperature : 25.9 Celsius
Is the site exposed to excessive wind : Yes
Is the site exposed to excessive heat : Yes

TOPOGRAPHY

Lowest Elevation : 230 meters
Highest Elevation : 450 meters
Slope Category :

0-8% - 0.05 Hectares
8-18% - 12.2951 Hectares
18-30% - 29.1372 Hectares
30-50% - 2.6657
over 50% - None

VEGETATION

Original Forest Type in the area: Dipterocarp Forest
Dominant Species in the site : White lauan, Red lauan,
Wisak and Gmelina
Invasive plants or noxious weeds present in the site : N/A
Is Forest present in the adjacent site : Yes

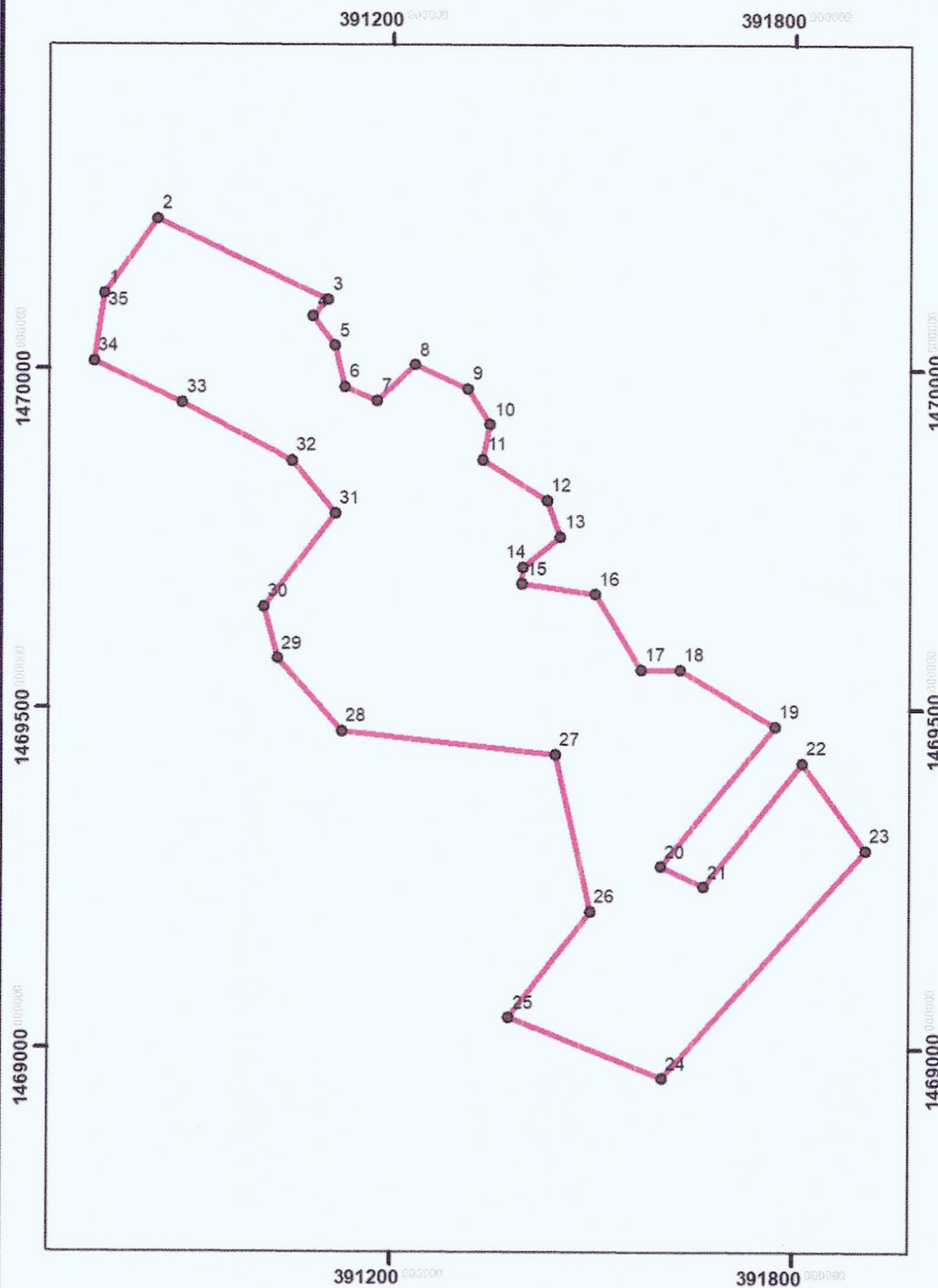
SOIL

Soil Texture : Clay and Loam
Soil Drainage : Excessive
Soil Compaction : Moderate Compact
Soil pH : 5.8
Soil Nitrogen : High & Soil Phosphorus : Medium
Soil Potassium : Sufficient
Type of erosion : None

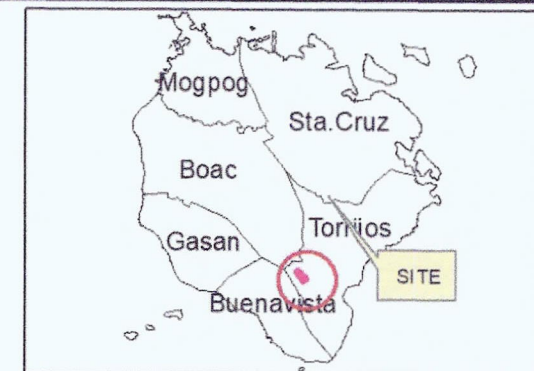
SOCIO-ECONOMIC AND DEMOGRAPHIC PROFILE

Number of Households by ethnicity : N/A
Number of Residents /Occupants : 10
Fuel being used for cooking : Fire wood and Charcoal
Main income activity /source: Farming

Surveyed and Assessed by:
Provincial Composite Surveyed and Mapping Team-
Marinduque



TECHNICAL DESCRIPTION		
CORNER	Northings	Eastings
1	390770.19	1470111.66
2	390848.47	1470222.89
3	391102.48	1470103.65
4	391080.56	1470078.72
5	391113.95	1470035.22
6	391128.82	1469975.12
7	391175.72	1469953.25
8	391233.54	1470006.68
9	391312.4	1469971.43
10	391345.83	1469918.71
11	391334.83	1469867.56
12	391430.26	1469807.13
13	391450.26	1469753.77
14	391394.13	1469708.55
15	391393.66	1469684.14
16	391502.09	1469669.24
17	391570.24	1469558.07
18	391629.41	1469557.92
19	391770.45	1469474.35
20	391601.03	1469267.31
21	391665.17	1469237.38
22	391811.06	1469420.09
23	391905.81	1469292
24	391603.55	1468955.15
25	391375.59	1469044.72
26	391496.43	1469200.87
27	391443.67	1469432.08
28	391125.09	1469466.46
29	391029.94	1469573.48
30	391009.08	1469650.19
31	391114.64	1469788.39
32	391050.39	1469865.44
33	390887.03	1469951.08
34	390754.68	1470011.66
35	390770.19	1470111.66



LOCATION MAP of NGP 2023 MALIBAGO

Located at Brgy. Malibago, Torrijos

Marinduque



Area- 44.1480 Hectares

Projection : Universal Tranverse Mercator- Zone 51 (N)

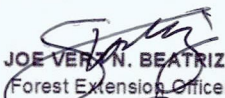
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Scale :1 ; 10,000

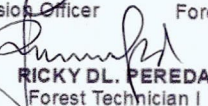
Legend

 eNGP 2023 SITES
 Corner

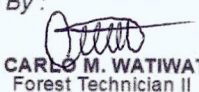
Surveyed By :


JOE VERON N. BEATRIZ
Forest Extension Officer


WILSON R. PAEZ
Forest Technician I

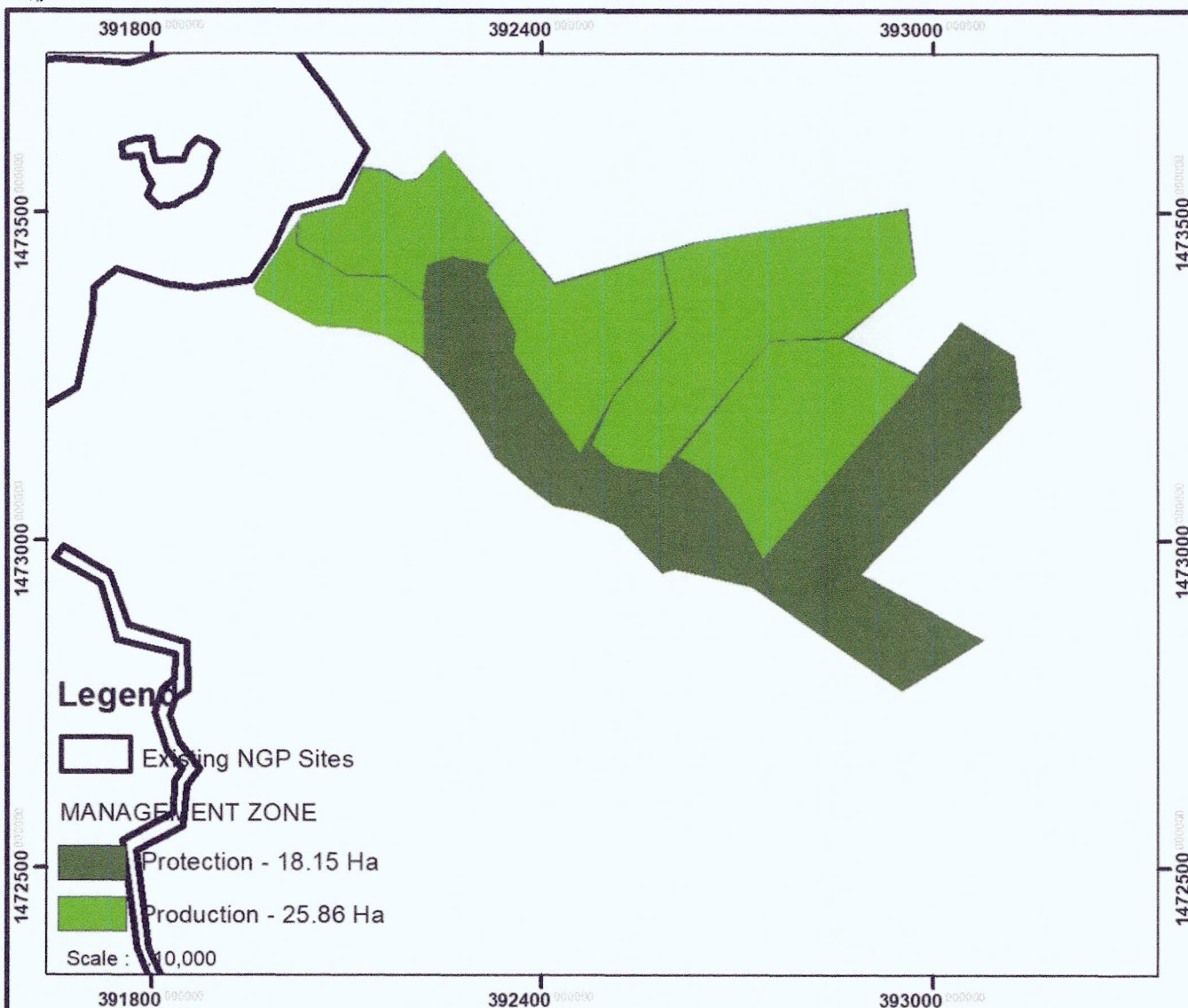

RICKY D. PEREDA
Forest Technician I

Surveyed and Prepared By :


CARLO M. WATIWAT
Forest Technician II

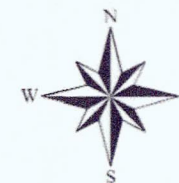
Approved By :


IMELDA M. DIAZ
PENR Officer



Legend

- Existing NGP Sites
- MANAGEMENT ZONE
- Protection - 18.15 Ha
- Production - 25.86 Ha
- Scale : 10,000



NGP SITE MAP AND INFORMATION

REGION: MIMAROPA
 DISTRICT: LONE DISTRICT
 PENRO: MARINDUQUE
 CENRO: NONE
 BARANGAY: SIBUYAO
 MUNICIPALITY: TORRIJOS
 PROVINCE: MARINDUQUE
 NAME OF ORGANIZATION: LGU SIBUYAO
 CONTACT PERSON: REDEN FIDELINO
 TYPE OF ORGANIZATION: LGU
 COMPONENT: AGROFORESTRY AND REFORESTATION
 COMMODITY: TIMBER AND FRUIT TREES
 SPECIES: NARRA, BATINO, WISAK, BACAN, MOLAVE,
 JACKFRUIT, CACAO, AVOCADO, CALAMANSI,
 RAMBUTAN
 MANAGEMENT ZONE: PRODUCTION AND
 PRODUCTION
 WATERSHED: NONE
 TOTAL AREA: 44 0145 HA
 REMARKS:

CLIMATE

Climate Type : Type 3
 Average Monthly Rainfall : 20.10 mm
 Monthly Average Temperature : 25.9 Celsius

TOPOGRAPHY

Lowest Elevation : 250 Meters
 Highest Elevation : 460 Meters
 Slope Category :
 0-8% - 6.5201 Hectares
 8-18% - 27.7697 Hectares
 18-30% - 9.7248 Hectares
 30-50% - None
 over 50% - None

VEGETATION

Present Landuse/Cover: Grass, Shrubs, forest, Perennials
 and Annual Crops
 Original Forest Type in the area: Dipterocarp Forest
 Dominant Species in the site : Ipil ipil, Narra and Gmelina

SOIL

Soil Texture : Clay and Loam
 Soil Drainage : Excessive
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 Soil pH : 5.8
 Soil Nitrogen : Low
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SOCIO-ECONOMIC AND DEMOGRAPHIC PROFILE

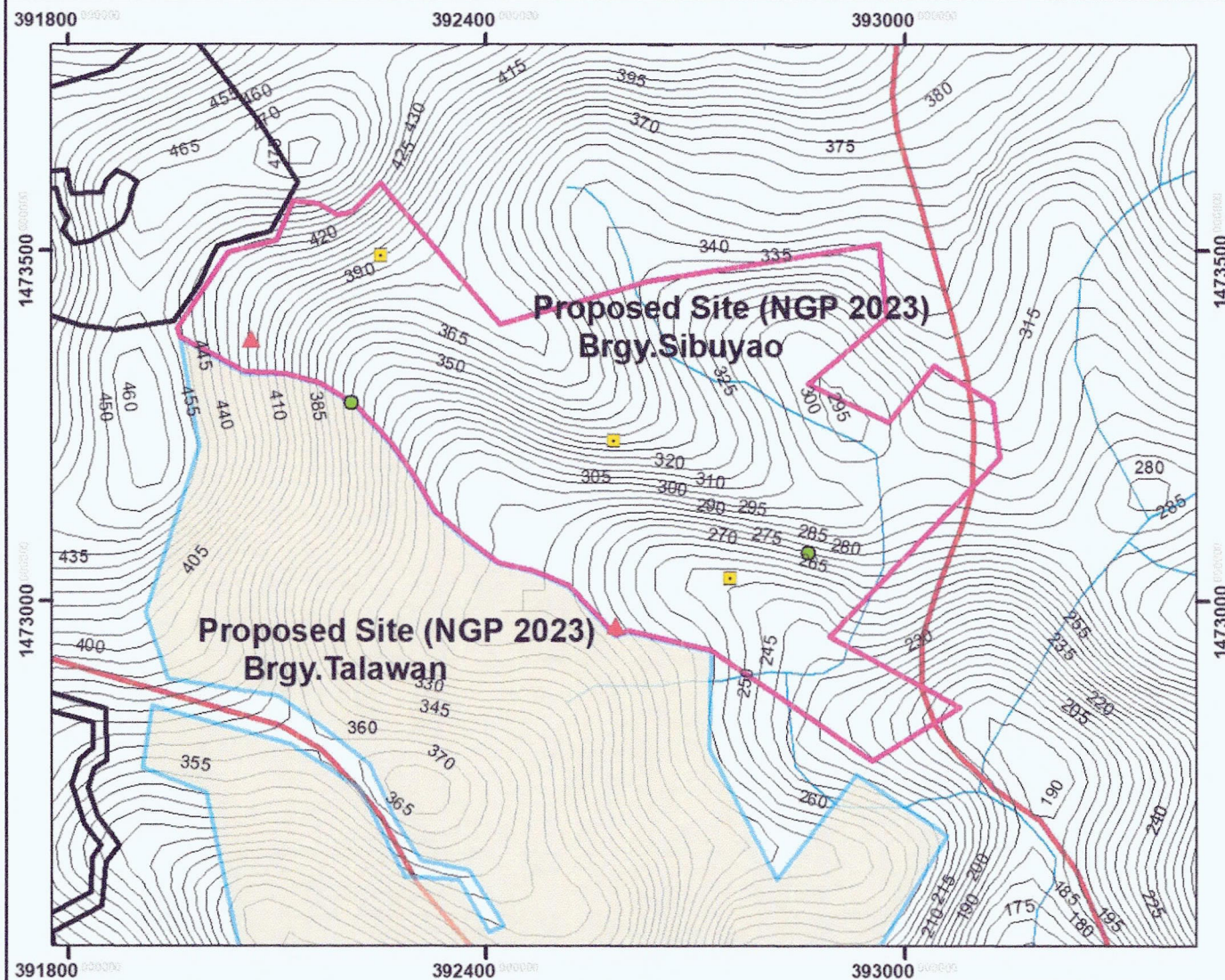
Number of Households by ethnicity : N/a
 Number of Residents /Occupants : 6

CERTIFICATION

We certify that this is the correct map of the area subject for reforestation per survey and assessment conducted by this office. The information provided herein are true and correct to the best of our professional knowledge and judgement.

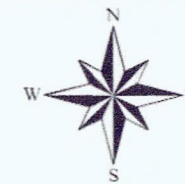
CYNTHIA D. YOZANO
 Chief, Technical Services Division
 Date: _____

IMELDA M. DIAZ
 PENR Officer
 Date: _____



Legend

- Location of soil samples
 - 2023 Proposed NGP sites
 - ▲ Proposed Nursery sites
 - Creeks&rivers
 - Contour line (20m interval)
 - Road
 - Geo-Tagged Photos
 - Graduated NGP SITES
 - Adjacent 2023 Proposed NGP Sites
- Scale : 1:10,000



MAP

Showing the detailed information of
NGP 2023 SIBUYAO

GENERAL INFORMATION

Location: Brgy. Sibuyao, Torrijos, Marinduque
Area : 44.0145 Hectares
Within Watershed : No
Within Protected Area : No
Distance from the end of accessible road : 40 meters
Is the site subject to previous reforestation : No
Is the site has existing claimant or occupant : Yes

CLIMATE

Climate Type : Type 3
Average Monthly Rainfall : 20.10 mm
Monthly Average Temperature : 25.9 Celsius
Is the site exposed to excessive wind : Yes
Is the site exposed to excessive heat : Yes

TOPOGRAPHY

Lowest Elevation : 250 meters
Highest Elevation : 460 meters
Slope Category :
0-8% - 6.5201 Hectares
8-18% - 27.7697 Hectares
18-30% - 9.7248 Hectares
30-50% - None
over 50% - None

VEGETATION

Original Forest Type in the area: Dipterocarp Forest
Dominant Species in the site : Ipil ipil, Narra and Gmelina
Invasive plants or noxious weeds present in the site : N/a
Is Forest present in the adjacent site : Yes

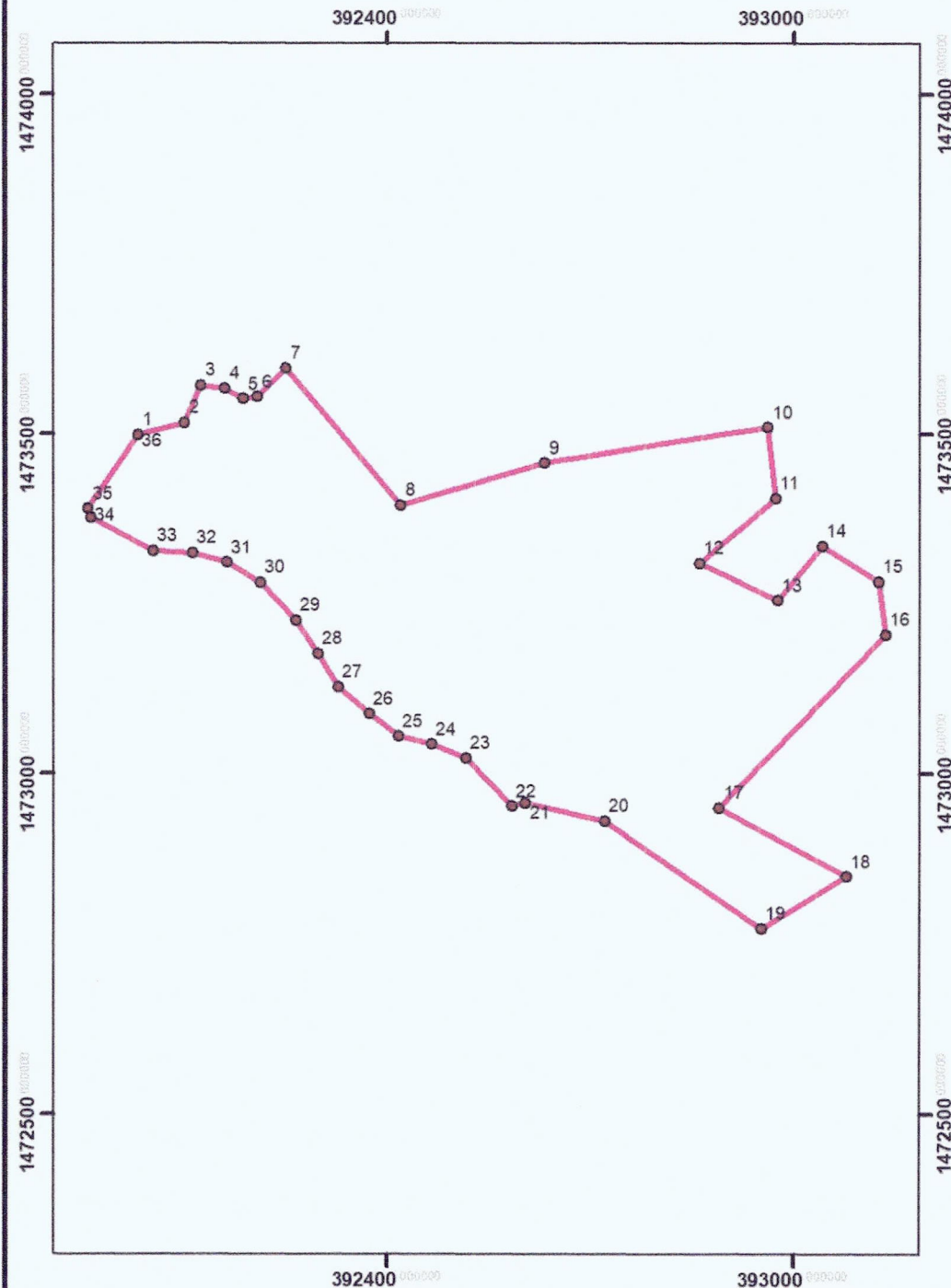
SOIL

Soil Texture : Clay and Loam
Soil Drainage : Excessive
Soil Compaction : Moderate Compact
Soil pH : 5.8
Soil Nitrogen : Medium & Soil Phosphorus : Low
Soil Potassium : Sufficient
Type of erosion : None

SOCIO-ECONOMIC AND DEMOGRAPHIC PROFILE

Number of Households by ethnicity : N/a
Number of Residents /Occupants : 6
Fuel being used for cooking : Fire wood and Charcoal
Main income activity /source : Farming

Surveyed and Assessed by:
Provincial Composite Surveyed and Mapping Team-
Marinduque



TECHNICAL DESCRIPTION		
CORNER	Northings	Eastings
1	392030.36	1473497.38
2	392099.22	1473515.13
3	392122.88	1473570.62
4	392159.15	1473566.72
5	392185.54	1473550.84
6	392206.72	1473553.76
7	392248.47	1473596.4
8	392419.25	1473394.42
9	392631.91	1473456.67
10	392962.08	1473509.06
11	392973.01	1473404.61
12	392860.75	1473309.66
13	392976.19	1473255.12
14	393042.27	1473335.23
15	393125.6	1473282.7
16	393135.87	1473204.54
17	392890.31	1472949
18	393078.52	1472848.73
19	392952.73	1472771.11
20	392720.91	1472929.58
21	392603.47	1472957.09
22	392583.79	1472951.53
23	392516.42	1473022.41
24	392465.1	1473042.9
25	392416.39	1473054.73
26	392372.67	1473087.58
27	392326.72	1473127.2
28	392297.06	1473176.89
29	392263.61	1473225.47
30	392210.92	1473280.89
31	392161.9	1473310.38
32	392111.69	1473324.48
33	392053.12	1473327.34
34	391960.71	1473376.16
35	391956.61	1473389.51
36	392030.36	1473497.38



LOCATION MAP of NGP 2023 SIBUYAO



Located at Brgy. Sibuyao, Torrijos
Marinduque
Area- 44.0145 Hectares

Projection : Universal Transverse Mercator- Zone 51 (N)

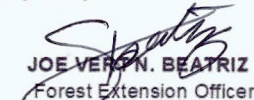
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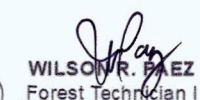
Scale : 1 : 10,000


Legend

 eNGP 2023 SITES
 Corner

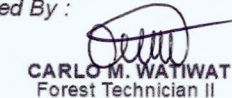
Surveyed By :


JOE VERON. BEATRIZ
Forest Extension Officer


WILSON R. DIAZ
Forest Technician I

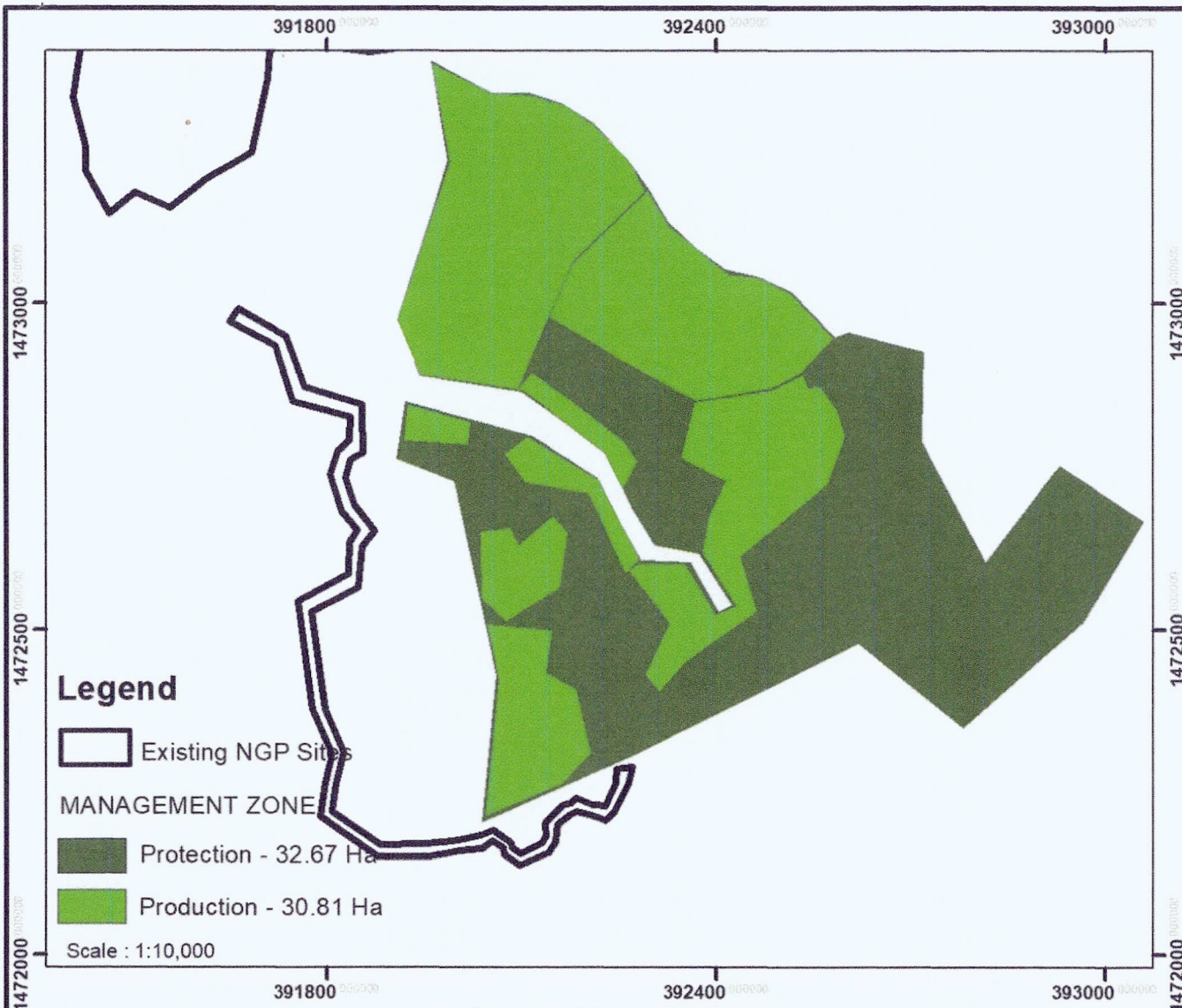

RICKY D. PEREDA
Forest Technician I

Surveyed and Prepared By :


CARLO M. WATIWAT
Forest Technician II

Approved By :


IMELDA M. DIAZ
PENR Officer

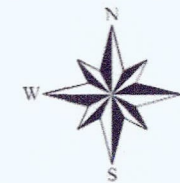


CERTIFICATION

We certify that this is the correct map of the area subject for reforestation per survey and assessment conducted by this office. The information provided herein are true and correct to the best of our professional knowledge and judgement.

CYNTHIA D. LOZANO
Chief, Technical Services Division
Date: _____

IMELDA M. DIAZ
PENR Officer
Date: _____



NGP SITE MAP AND INFORMATION

REGION: MIMAROPA
DISTRICT: LONE DISTRICT
PENRO: MARINDUQUE
CENRO: NONE
BARANGAY: TALAWAN
MUNICIPALITY: TORRIJOS
PROVINCE: MARINDUQUE
NAME OF ORGANIZATION: LGU TALAWAN
CONTACT PERSON: RUEL MACDON
TYPE OF ORGANIZATION: LGU
COMPONENT: AGROFORESTRY AND REFORESTATION
COMMODITY: TIMBER AND FRUIT TREES
SPECIES: NARRA, BATINO, WISAK, BACAN, MOLAVE, JACKFRUIT, CACAO, AVOCADO, CALAMANSI, RAMBUTAN
MANAGEMENT ZONE: PRODUCTION AND PRODUCTION
WATERSHED: NONE
TOTAL AREA: 63 4906 HA
REMARKS:

CLIMATE

Climate Type: Type 3
Average Monthly Rainfall: 20.10 mm
Monthly Average Temperature: 25.9 Celsius

TOPOGRAPHY

Lowest Elevation: 230 Meters
Highest Elevation: 460 Meters
Slope Category:
0-8% - 7.6303 Hectares
8-18% - 39.6024 Hectares
18-30% - 16.2579 Hectares
30-50% - None
over 50% - None

VEGETATION

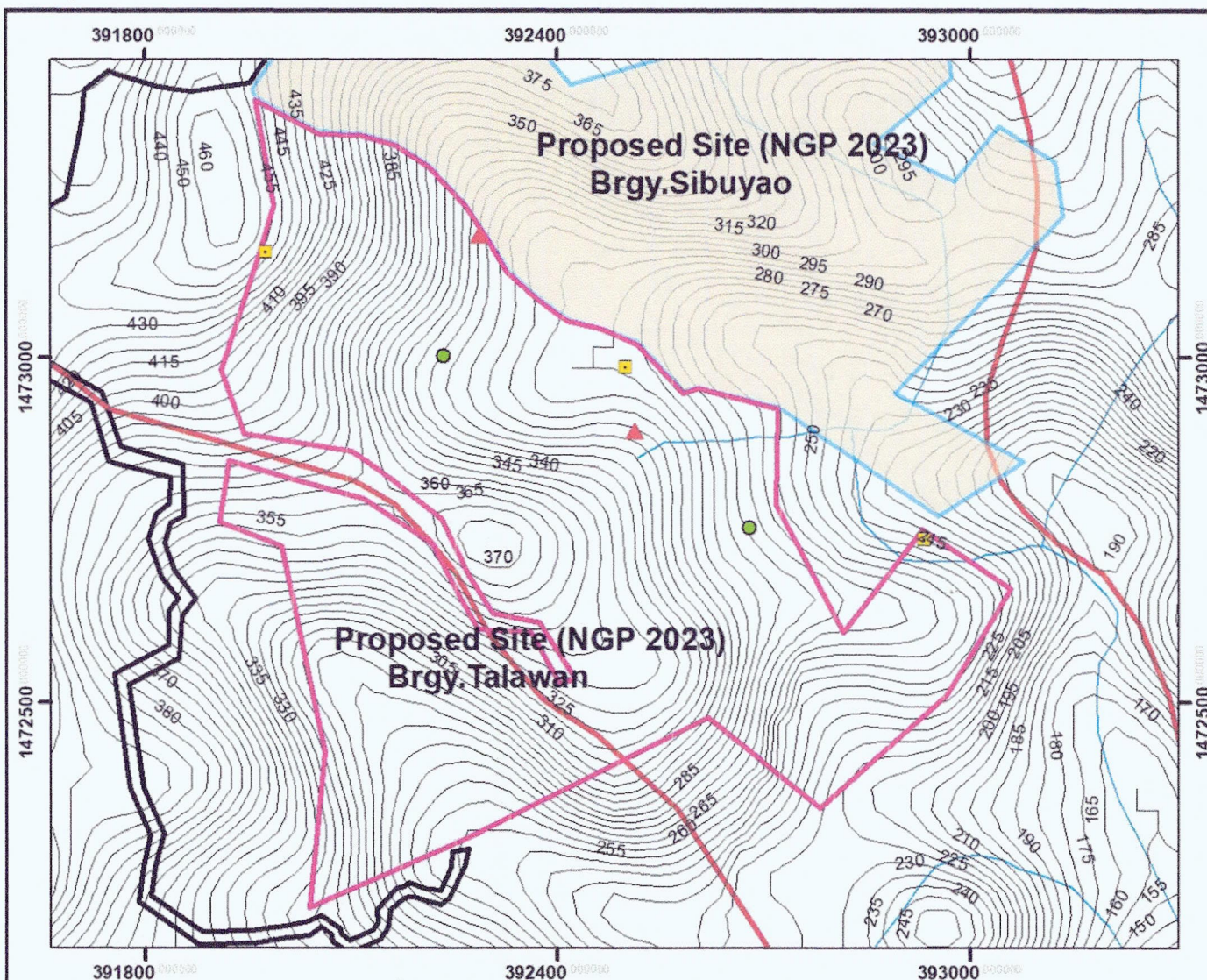
Present Landuse/Cover: Grass, Shrubs, forest, Perennials and Annual Crops
Original Forest Type in the area: Dipterocarp Forest
Dominant Species in the site: Ipil ipil, Narra, and Gmelina

SOIL

Soil Texture: Clay and Loam
Soil Drainage: Excessive
Soil Compaction: Moderate Compact
Soil pH: 5.8
Soil Nitrogen: Medium
Soil Phosphorus: Low
Soil Potassium: Sufficient

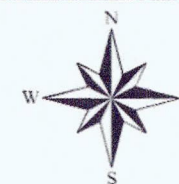
SOCIO-ECONOMIC AND DEMOGRAPHIC PROFILE

Number of Households by ethnicity: N/a
Number of Residents /Occupants: 4



Legend

- Location of soil samples
 - 2023 Proposed NGP sites
 - ▲ Proposed Nursery sites
 - Creeks&rivers
 - Contour line (20m interval)
 - Road
 - Geo-Tagged Photos
 - Graduated NGP SITES
 - 2023 Adjacent Proposed NGP SITES
- Scale : 1:10,000



MAP

Showing the detailed information of
NGP 2023 TALAWAN

GENERAL INFORMATION

Location: Brgy. Talawan, Torrijos, Marinduque
Area : 63.4906 Hectares
Within Watershed : No
Within Protected Area : No
Distance from the end of accessible road : 40 meters
Is the site subject to previous reforestation : No
Is the site has existing claimant or occupant : Yes

CLIMATE

Climate Type : Type 3
Average Monthly Rainfall : 20.10 mm
Monthly Average Temperature : 25.9 Celsius
Is the site exposed to excessive wind : Yes
Is the site exposed to excessive heat : Yes

TOPOGRAPHY

Lowest Elevation : 230 meters
Highest Elevation : 460 meters
Slope Category :
0-8% - 7.6303 Hectares
8-18% - 39.6024 Hectares
18-30% - 16.2579 Hectares
30-50% - None
over 50% - None

VEGETATION

Original Forest Type in the area: Dipterocarp Forest
Dominant Species in the site : Ipil Ipil, Narra and Gmelina
Invasive plants or noxious weeds present in the site : N/A
Is Forest present in the adjacent site : Yes

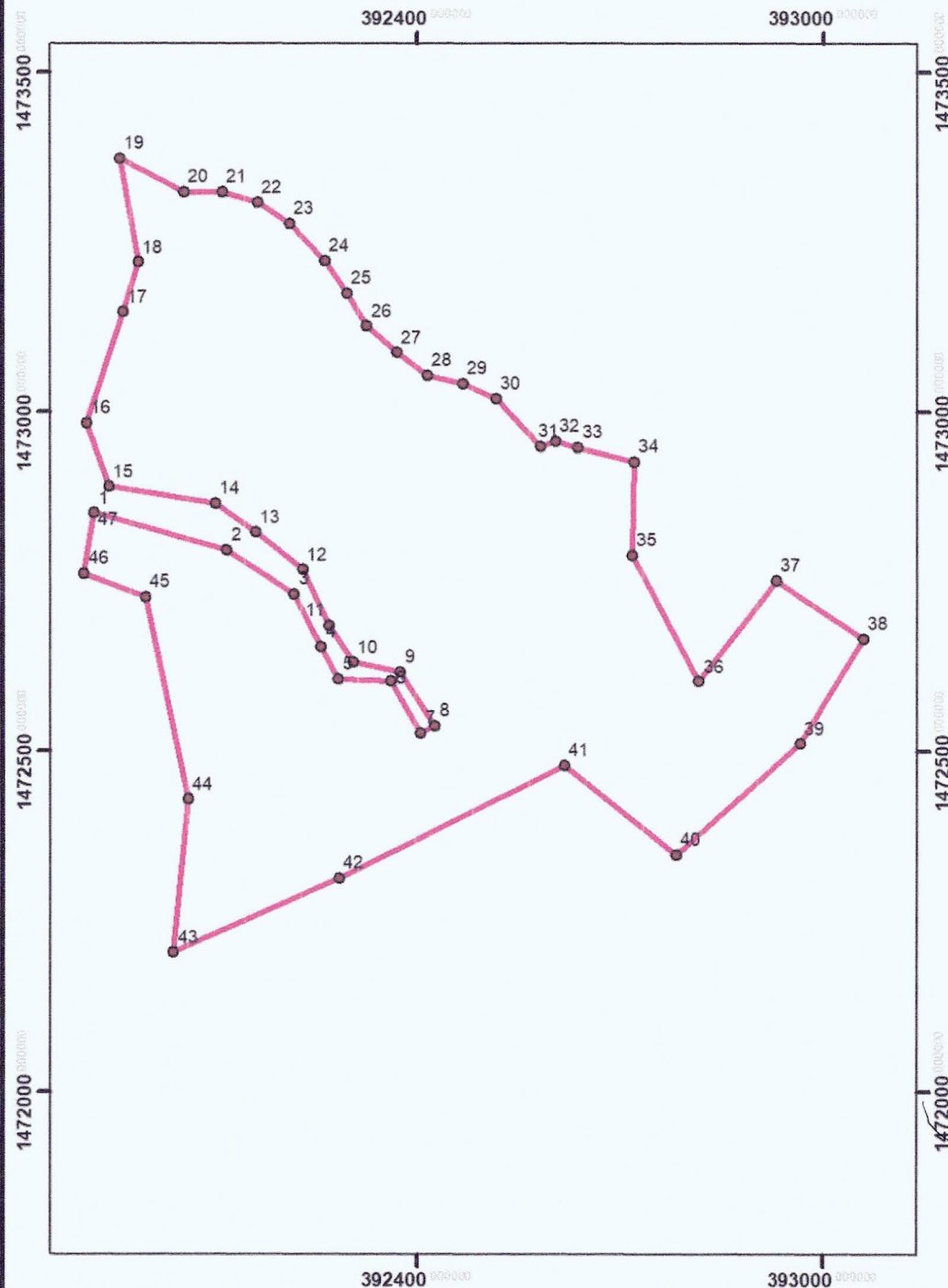
SOIL

Soil Texture : Clay and Loam
Soil Drainage : Excessive
Soil Compaction : Moderate Compact
Soil pH : 5.8
Soil Nitrogen : Medium & Soil Phosphorus : Low
Soil Potassium : Sufficient
Type of erosion : None

SOCIO-ECONOMIC AND DEMOGRAPHIC PROFILE

Number of Households by ethnicity : N/A
Number of Residents /Occupants : 4
Fuel being used for cooking : Fire wood and Charcoal
Main income activity /source: Farming

Surveyed and Assessed by:
Provincial Composite Surveyed and Mapping Team-
Marinduque



TECHNICAL DESCRIPTION		
CORNER	Northings	Eastings
1	391921.19	1472850.34
2	392117.51	1472795.47
3	392217.04	1472731.97
4	392257.55	1472653.69
5	392283.82	1472606.64
6	392360.53	1472602.58
7	392404.08	1472527.29
8	392425.28	1472536.97
9	392374.19	1472616.80
10	392305.46	1472630.59
11	392270.15	1472684.82
12	392231.17	1472766.85
13	392161.08	1472821.96
14	392100.78	1472864.64
15	391943.64	1472889.31
16	391910.76	1472982.58
17	391964.33	1473146.11
18	391987.30	1473219.63
19	391960.70	1473372.97
20	392054.23	1473323.02
21	392111.68	1473322.79
22	392163.03	1473307.56
23	392211.28	1473277.32
24	392263.98	1473221.53
25	392297.05	1473173.70
26	392325.58	1473125.51
27	392369.27	1473086.28
28	392414.49	1473053.05
29	392466.60	1473040.82
30	392516.40	1473018.84
31	392582.65	1472948.72
32	392604.59	1472955.40
33	392637.82	1472947.00
34	392720.89	1472926.39
35	392718.07	1472788.19
36	392815.61	1472602.27
37	392930.35	1472751.29
38	393059.65	1472665.52
39	392966.06	1472511.16
40	392781.71	1472348.14
41	392618.20	1472479.49
42	392284.91	1472312.94
43	392038.79	1472203.50
44	392060.86	1472429.13
45	391997.80	1472726.84
46	391907.22	1472761.76
47	391921.19	1472850.34



LOCATION MAP of NGP 2023 SIBUYAO

Located at Brgy. Sibuyao, Torrijos

Marinduque

Area- 44.0145 Hectares

Projection : Universal Transverse Mercator- Zone 51 (N)

Datum..... World Geodetic Survey (WGS84)

Scale : 1 ; 10,000

Legend



eNGP 2023 SITES
Corner

Surveyed By :

JOE VERT N. BEATRIZ
Forest Extension Officer

WILSON R. PAEZ
Forest Technician I

RICKY DL. PEREDA
Forest Technician I

Surveyed and Prepared By :

CARLO M. WATIWAT
Forest Technician II

Approved By :

IMELDA M. DIAZ
PENR Officer