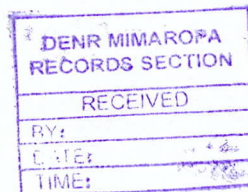




Republic of the Philippines
Department of Environment and Natural Resources
Provincial Environment and Natural Resources Office
MIMAROPA Region

Bgy. Sta. Monica, Puerto Princesa City, Palawan

E-mail: penropalawan@denr.gov.ph
Telfax No. (048) 433-5638 / (048) 433-5638



April 11, 2023

MEMORANDUM

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

THRU : The OIC, ARD for Technical Services

FROM : The Provincial Environment and
Natural Resources Officer

SUBJECT : **1ST QUARTER REPORT ON MONITORING OF CORAL REEFS
IN EL NIDO MANAGED RESOURCE PROTECTED AREA
(ENMRPA) EL NIDO, PALAWAN CY 2023**

Respectfully forwarded is the memorandum dated March 22, 2023 of CENRO Taytay, Palawan along with the report on coral reef monitoring within El Nido Managed Resource Protected Area (ENMRPA) that serves as **Means of Verification (MoV)** for target activities in the first quarter CY 2023.

Please be informed that on March 9, 2023, PAMO staff together with the Municipal Environment and Natural Resources Office (MENRO) of El Nido, Palawan conducted monitoring of corals at Depeldet Reef, Bgy. Corong-Corong, El Nido, Palawan with an approximate coral reef area of 33.77 hectares.

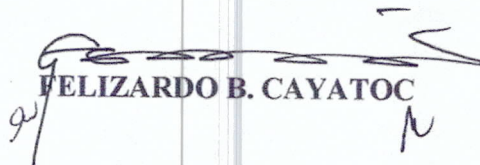
In comparison to the previous year (2022), the results were as follows:

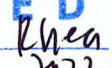
	2022	2023	Remarks
Mean Hard Coral Cover (%)	33.04	35.59	Increased
Fish Biomass (MT/km ²)	5.739	9.093	Increased
Fish Abundance (individual/1000m ²)	1690	1624	Decreased

Further, mild coral bleaching and outbreak of Crown of thorns was observed.

For information and record.




FELIZARDO B. CAYATOC

DENR-PALAWAN
PENRO-RECORDS
RELEASED
By 
Date: 13 APR 2023 CN 2023-974



Republic of the Philippines
Department of Environment and Natural Resources
Region IV- MIMAROPA
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
by the National Highway, Poblacion, Taytay, Palawan 5312
Contact No.: 09265059335 (Globe) / 09121713889 (Smart)
Email address: cenro@denr.gov.ph

**DENR-CENRO
PALAWAN RECORDS
RECEIVED**

March 22, 2023

MEMORANDUM

FOR : The Provincial Environment and Natural Resources Officer- Palawan
FROM : The Community Environment and Natural Resources Officer
SUBJECT : **ACCOMPLISHMENT REPORT ON ACTIVITY PER WFP
El Nido-Taytay Managed Resource Protected Area (ENTMRPA)**

Activity: Monitoring of Corals, Mangroves and Seagrass				
Performance Indicator: Hectarage of habitats per PA monitored (Corals)				
Frequency of submission: Quarterly report				
Current submission: Memo report of Assistant Protected Area Superintendent/PMF Jenuel P. Casel dated March 20, 2023 (CN 1919 in the eDATS) submitting the 1 st quarter report on monitoring of Corals for Protected Area Management Office of El Nido-Taytay Managed Resource Protected Area (ENTMRPA).				
Attachment: 1. Memo report of CMEMP E.O Mariel M. Paladan dated March 15, 2023. Based on the report, an approximate of 33.77 hectares of corals were monitored at Depeldet Reef, Barangay Corong-Corong, El Nido, Palawan. 2. Photo documentation 3. Raw data of Fish Visual Census (2 pages) 4. Raw Data of Fish Abundance 5. Map 6. Water Quality Monitoring Data Form				
Gender & Development (GaD) data	Male = 4	Female = 2	LGBTQ+ = 0	Prefer not to say = 0
Age Grouping	60 and above	18-59	17 and below	TOTAL
	0	6	0	6
Environmental Management System (EMS Compliance)	☒ Compliant to 5S organization techniques (5S – keep only necessary items, SET IN ORDER – arrange items to promote efficient workflow, SHINE – clean the work area so it is neat and tidy, STANDARDIZE – set standards for a consistently organized workplace and SUSTAIN – maintain and review standard) ☒ Organizing of travel to maximize conveyance and observance of speed limit to practice the minimized used of fuel ☒ Carpooling ☒ No single use of plastic ☒ PENRO Memo No. 2023-001 dated February 21, 2023			

This is our **Means of Verification (MoV)** on the activity. Please confirm your receipt hereof.
Thank you.

**DENR-CENRO
TAYTAY, PALAWAN
RELEASED**
BY: 
DATE: MAR 23 2023 11:87

CONRAD M. CORPUZ



MAR 20 2023

MEMORANDUM

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

FROM : The Protected Area Superintendent
El Nido Managed Resource Protected Area

SUBJECT : REPORT ON MONITORING OF CORALS FOR THE 1ST QUARTER OF CY 2023 OF EL NIDO MANAGED RESOURCE PROTECTED AREA (ENMRPA) EL NIDO, PALAWAN

DENR CENRO
TAYTAY, PALAWAN
RECEIVED
BY: Sgt
DATE: 3-20-23 CH 1919

Activity	Monitoring of corals per PA under MPA Management, Strengthening, and Networking			
Performance Indicator	Hectarage of habitats per PA monitored			
Frequency of Submission	1 st quarter to 4 th quarter			
Current Submission	Memo report of CMEMP Extension Officer dated March 15, 2023 covering 1 st quarter of CY 2023			
Gender and Development (GaD) data	Male= 4	Female = 2	LGBTQ+=0	Prefer not to say = 0
Age Grouping	60 and above =0	18-59 = 6	17 and below	TOTAL = 6
Environmental Management System (EMS) compliance	✓ Compliant to 5S organization techniques (SORT – keep only necessary items, SET IN ORDER – arrange items to promote efficiency workflow, SHINE – clean the work area so it is neat and tidy, STANDARDIZE set standards for a consistently organized workplace and SUSTAIN – maintain and review standard). ✓ No Single Use plastic was used during the activity.			

This serves as our Means of Verification (MOV) of the target.

For information and record.

For the Protected Area Superintendent;

DENR - PAO
ENTMRPA,
El Nido, Palawan
RELEASED
By: Sgt
Date: 03-20-2023
C.N.: 2023-0258

JENUEL P. CASEL
PMF/Assistant PASu
In-charge, ENTMRPA-PAMO



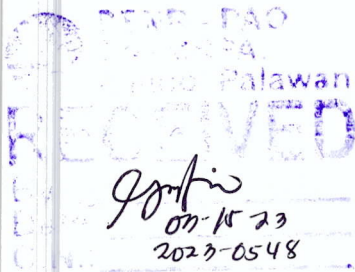
March 15, 2023

MEMORANDUM

FOR : The Protected Area Superintendent
El Nido Managed Resource Protected Area

FROM : CMEMP Extension Officer
El Nido Managed Resource Protected Area

SUBJECT : REPORT ON MONITORING OF CORALS OF EL NIDO MANAGED RESOURCE PROTECTED AREA (ENMRPA)



This pertains to the target activity 001 Monitoring of Corals per PA under Marine Protected Area Strengthening and Networking of El Nido Managed Resource Protected Area (ENMRPA) – Protected Area Management Office (PAMO) for the 1st quarter of CY 2023.

Please be informed that on March 9, 2023 the undersigned together with Accounting Clerk II Reina Rose Abordo, Park Ranger Steven John Andao and Municipal Environment and Natural Resources Office (MENRO) staff conducted monitoring of corals at Depeldet Reef, Bgy. Corong-corong, El Nido, Palawan with an approximate coral reef area of 33.77 hectares.

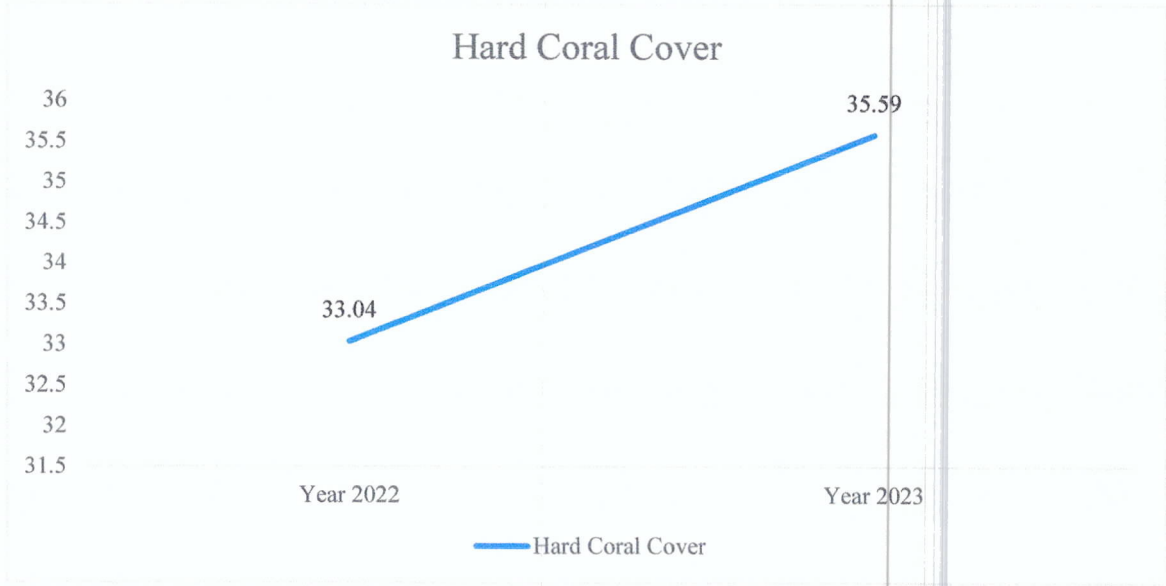


Figure 1. Comparison of Mean Hard Coral Cover in Depeldet Reef for year 2022 and 2023

Figure 1 shows the comparison percentage of hard coral cover in Depeldet Reef on 2022 and 2023. Based on the result, there is no distinction between the two because their Hard Coral Cover both falls under HCC Category B.

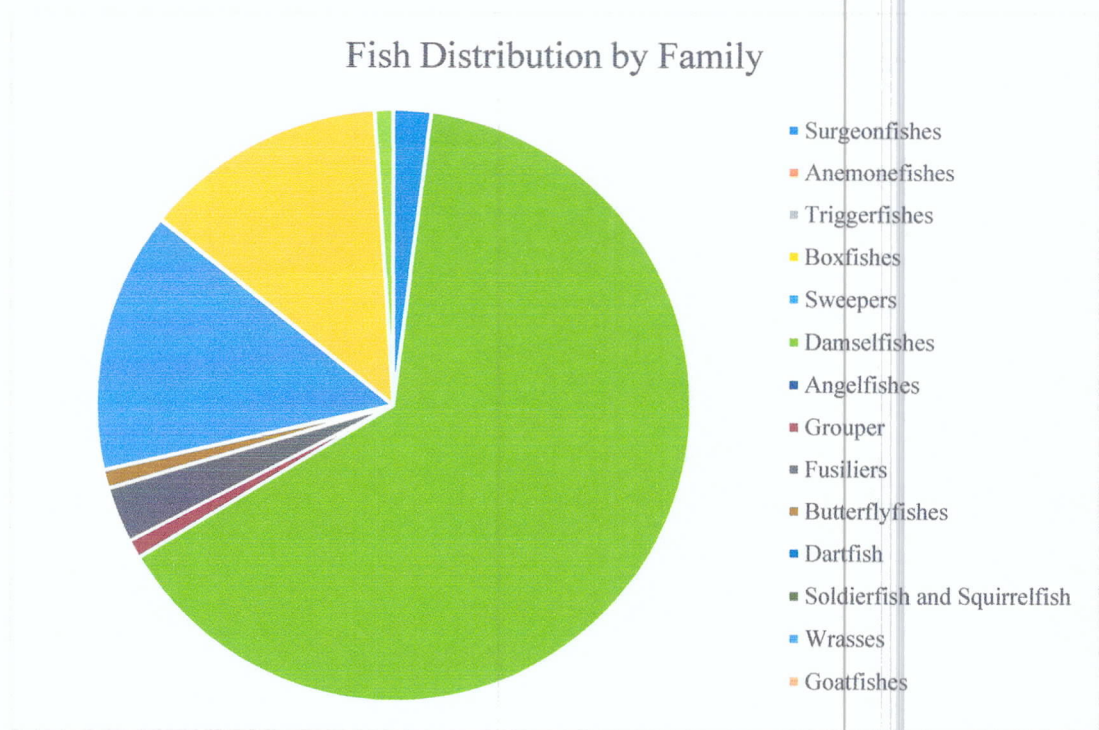


Figure 2 Pie graph showing fish distribution per family in Depeldet Reef

A total of forty-four (44) species of reef fish belonging to thirteen (13) families were identified and recorded at Depeldet Reef, Bgy. Corong-corong. Out of thirteen (13) families, the most dominant are the damsselfishes.

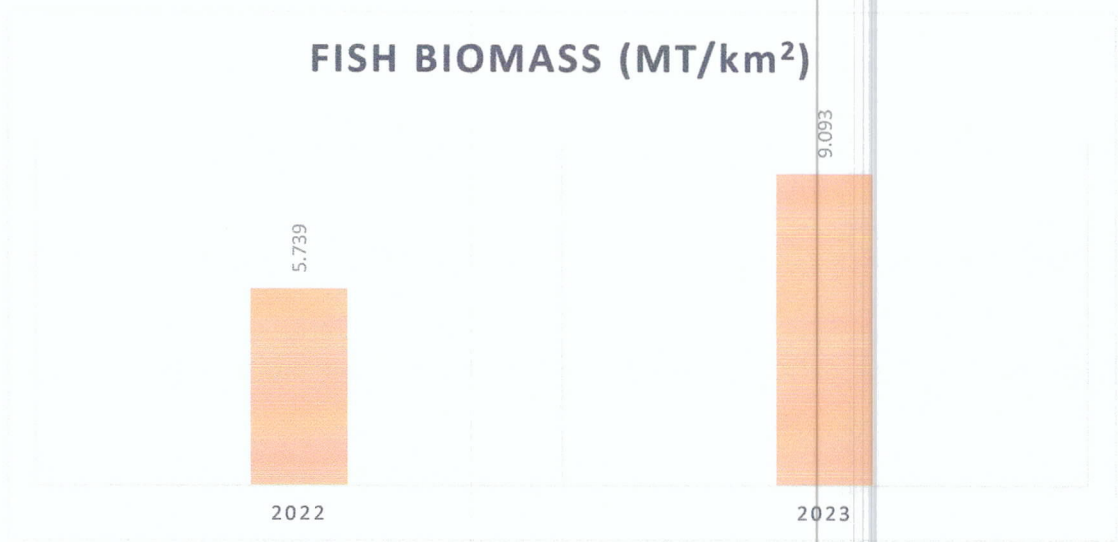


Figure 3 Bar graph showing the comparison of mean fish biomass (MT/km²) for year 2022 and 2023

As seen in figure three (3) are the comparison of mean fish biomass (MT/km2) for year 2022 and 2023. On 2022, Depeldet Reef falls under the very low category with a value of 5.739 MT/km2, while on 2023 it falls under the low category with a value of 9.093 MT/km2 based on Nanola et al., 2006.

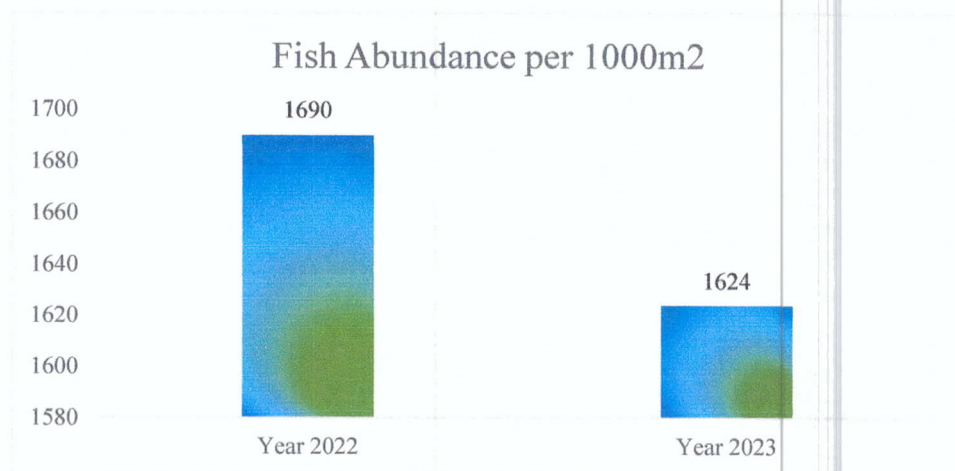


Figure 4 Bar graph showing the comparison of fish abundance per individual/1000m² for year 2022 and 2023

The figure above shows the comparison of fish abundance per individual/1000m² for year 2022 and 2023. Based on Hilomen et al., 2000, from 2022 to 2023 the result of fish abundance in Depeldet Reef falls under the moderate category with a value of 1,690 individual/1000m² in 2022 and 1,624 individual/1000m² in 2023.

Furthermore, the team observed mild coral bleaching and outbreak of Crown of Thorns in established monitoring site.

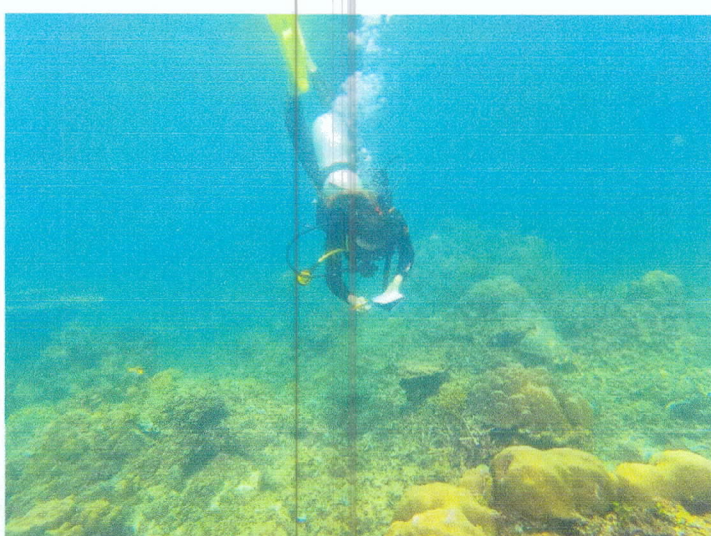
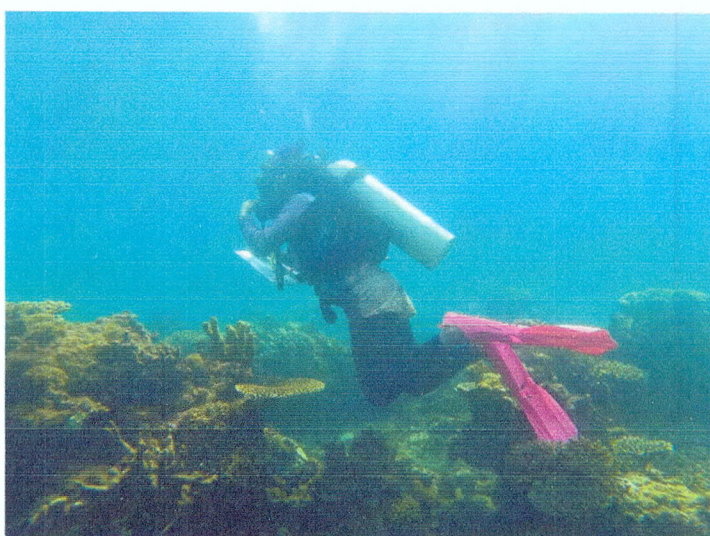
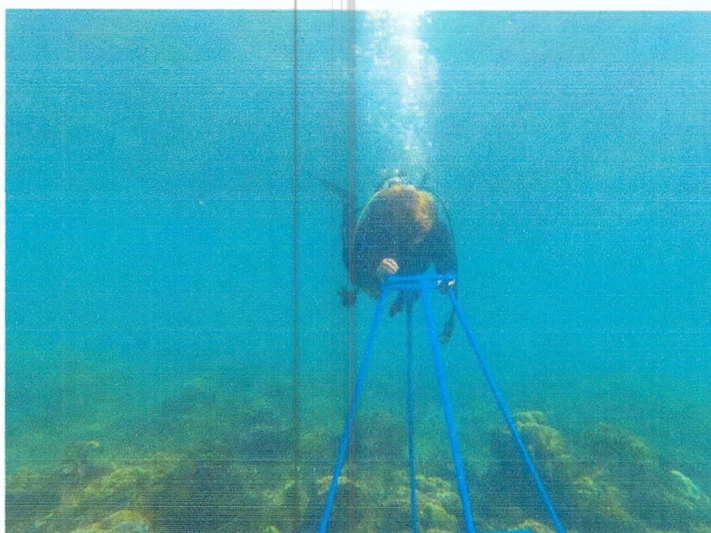
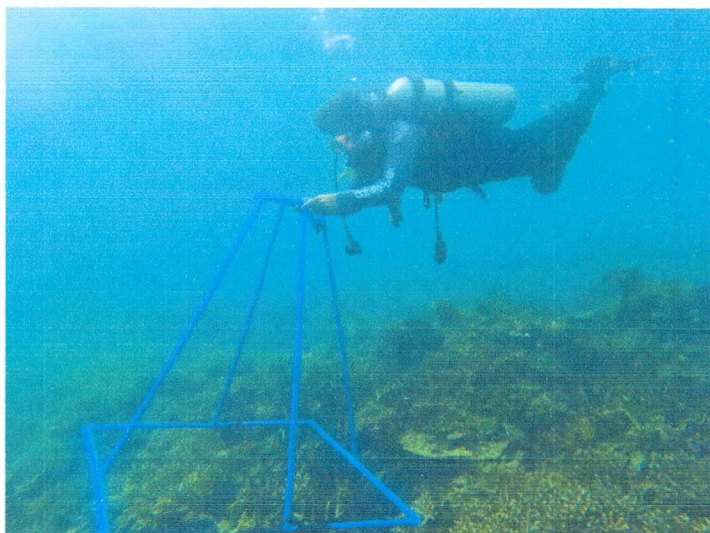
Attached are the photo-documentation, maps and raw data of the said activity.

This serves as our Means of Verification (MOV) of the target.

For information and record.


MARIEL M. PALADAN

PHOTO DOCUMENTATION



CERTIFICATION

This is to certify that the above photos are true and correct and taken during the conduct of activity.


MARIEL M. PALADAN
CMEMP Extension Officer

APPENDIX I. Raw data of Fish Visual Census in Depeldet Reef, Bgy. Corong-corong (Site 1)

Scientific name	English name	Size (cm)	total Coun	a	b	wt	T. Biomass
<i>Abudefduf vaigiensis</i>	Sergeant Major	5	10	0.03	2.8	2.7179	27.1792
<i>Abudefduf vaigiensis</i>	Sergeant Major	8	2	0.03	2.8	10.1338	20.2676
<i>Acanthochromis polyacanthus</i>	Spiny Chromis	3	47	0.03	2.8	0.6502	30.5604
<i>Acanthochromis polyacanthus</i>	Spiny Chromis	4	29	0.03	2.8	1.4551	42.1975
<i>Acanthochromis polyacanthus</i>	Spiny Chromis	5	36	0.03	2.8	2.7179	97.8453
<i>Acanthochromis polyacanthus</i>	Spiny Chromis	6	10	0.03	2.8	4.5284	45.2840
<i>Acanthochromis polyacanthus</i>	Spiny Chromis	7	1	0.03	2.8	6.9726	6.9726
<i>Acanthochromis polyacanthus</i>	Spiny Chromis	8	21	0.03	2.8	10.1338	212.8102
<i>Acanthochromis polyacanthus</i>	Spiny Chromis	10	3	0.03	2.8	18.9287	56.7862
<i>Amblyglyphidodon curacao</i>	Staghorn Damsel	3	28	0.0413	2.886	0.9838	27.5474
<i>Amblyglyphidodon curacao</i>	Staghorn Damsel	4	12	0.0413	2.886	2.2568	27.0817
<i>Amblyglyphidodon curacao</i>	Staghorn Damsel	5	7	0.0413	2.886	4.2971	30.0798
<i>Amblyglyphidodon curacao</i>	Staghorn Damsel	6	7	0.0413	2.886	7.2727	50.9088
<i>Amblyglyphidodon curacao</i>	Staghorn Damsel	8	16	0.0413	2.886	16.6828	266.9241
<i>Amphiprion clarkii</i>	Clark's Anemonefish	11	1	0.0375	2.866	36.1962	36.1962
<i>Arothron nigropunctatus</i>	Black-spotted Pufferfish	7	3	0.0266	3	9.1238	27.3714
<i>Arothron nigropunctatus</i>	Black-spotted Pufferfish	8	2	0.0266	3	13.6192	27.2384
<i>Bodianus mesothorax</i>	Splitlevel Pigfish	8	1	0.0163	3.063	9.5138	9.5138
<i>Bodianus mesothorax</i>	Splitlevel Pigfish	10	1	0.0163	3.063	18.8446	18.8446
<i>Caesio caerulea</i>	Blue and Gold Fusilier	8	17	0.0221	2.946	10.11	171.93
<i>Caesio caerulea</i>	Blue and Gold Fusilier	12	6	0.0221	2.946	33.39	200.36
<i>Cephalopholis beonak</i>	Brown-banded Grouper	7	1	0.0109	3.16	5.1043	5.1043
<i>Cephalopholis beonak</i>	Brown-banded Grouper	8	1	0.0109	3.16	7.7838	7.7838
<i>Cephalopholis cyanostigma</i>	Blue-spotted Grouper	6	1	0.0167	2.99	3.54	3.54
<i>Cephalopholis cyanostigma</i>	Blue-spotted Grouper	10	1	0.0167	2.99	16.32	16.32
<i>Cephalopholis micropirion</i>	Dothead Grouper	10	2	0.0109	3.16	15.7553	31.5106
<i>Chaetodon baronessa</i>	Triangular Butterflyfish	10	1	0.038	2.921	31.6799	31.6799
<i>Chaetodon lunula</i>	Raccoon Butterflyfish	8	1	0.0312	2.953	14.4870	14.4870
<i>Chaetodon octofasciatus</i>	Eight-banded Butterflyfish	7	2	0.038	2.921	11.1767	22.3535
<i>Chaetodon octofasciatus</i>	Eight-banded Butterflyfish	8	1	0.038	2.921	16.5086	16.5086
<i>Chromis viridis</i>	Blue-green Chromis	3	8	0.0642	2.518	1.0208	8.1661
<i>Chromis viridis</i>	Blue-green Chromis	5	9	0.0642	2.518	3.6944	33.2494
<i>Chromis viridis</i>	Blue-green Chromis	6	3	0.0642	2.518	5.8468	17.5405
<i>Ctenochaetus striatus</i>	Lined Bristletooth	5	4	0.0254	3.027	3.3160	13.2640
<i>Ctenochaetus striatus</i>	Lined Bristletooth	6	1	0.0254	3.027	5.7583	5.7583
<i>Ctenochaetus striatus</i>	Lined Bristletooth	8	10	0.0254	3.027	13.7558	137.5584
<i>Ctenochaetus striatus</i>	Lined Bristletooth	14	3	0.0254	3.027	74.8451	224.5353
<i>Dascyllus reticulatus</i>	Reticulated Dascyllus	3	2	0.0612	2.747	1.2514	2.5028
<i>Dascyllus reticulatus</i>	Reticulated Dascyllus	5	24	0.0612	2.747	5.0912	122.1893
<i>Dascyllus reticulatus</i>	Reticulated Dascyllus	7	7	0.0612	2.747	12.8303	89.8119
<i>Dischistodus prosopotaenia</i>	Honeyhead Damsel	8	1	0.0537	2.886	21.6916	21.6916
<i>Epibulus insidiator</i>	Slingjaw Wrasse	7	2	0.0296	3	10.1528	20.3056
<i>Epibulus insidiator</i>	Slingjaw Wrasse	9	1	0.0296	3	21.5784	21.5784
<i>Epibulus insidiator</i>	Slingjaw Wrasse	12	1	0.0296	3	51.1488	51.1488
<i>Epinephelus fasciatus</i>	Black-tipped Grouper	5	1	0.0229	2.877	2.35	2.35
<i>Halichoeres melanurus</i>	Three-eyed Wrasse	5	4	0.0156	3	1.9500	7.8000
<i>Halichoeres melanurus</i>	Three-eyed Wrasse	6	6	0.0156	3	3.3696	20.2176
<i>Halichoeres melanurus</i>	Three-eyed Wrasse	8	11	0.0156	3	7.9872	87.8592
<i>Hemigymnus melapterus</i>	Thick-lipped Wrasse	12	1	0.0286	3	49.42	49.42
<i>Labroides dimidiatus</i>	Cleaner Wrasse	3	11	0.0076	3.105	0.2303	2.5332
<i>Labroides dimidiatus</i>	Cleaner Wrasse	4	3	0.0076	3.105	0.5626	1.6878
<i>Labroides dimidiatus</i>	Cleaner Wrasse	5	10	0.0076	3.105	1.1249	11.2490
<i>Labroides dimidiatus</i>	Cleaner Wrasse	6	4	0.0076	3.105	1.9814	7.9256
<i>Labroides dimidiatus</i>	Cleaner Wrasse	7	2	0.0076	3.105	3.1977	6.3955
<i>Labroides dimidiatus</i>	Cleaner Wrasse	8	4	0.0076	3.105	4.8407	19.3628
<i>Labrichthys unilineatus</i>	Tubelip Wrasse	7	2	0.0257	3	8.8151	17.6302
<i>Lactoria sp.</i>	Longhorn Cowfish	10	1	0.101	2.588	39.1130	39.1130
<i>Macropharyngodon meleagris</i>	Leopard Wrasse	6	1	0.0228	3	4.9248	4.9248
<i>Macropharyngodon meleagris</i>	Leopard Wrasse	10	2	0.0228	3	22.8000	45.6000
<i>Myripristis amaena</i>	Brick Soldierfish	8	1	0.0341	3.042	19.05	19.05
<i>Myripristis amaena</i>	Brick Soldierfish	10	1	0.0341	3.042	37.56	37.56
<i>Myripristis amaena</i>	Brick Soldierfish	12	1	0.0341	3.042	65.41	65.41
<i>Neoglyphidodon melas</i>	Black Damsel	7	2	0.0254	3.054	9.6775	19.3550
<i>Neoglyphidodon melas</i>	Black Damsel	8	1	0.0254	3.054	14.5503	14.5503

<i>Neoglyphidodon nigroris</i>	Behn's Damsel	4	6	0.0254	3.054	1.7520	10.5118
<i>Neoglyphidodon nigroris</i>	Behn's Damsel	5	7	0.0254	3.054	3.4633	24.2430
<i>Neoglyphidodon nigroris</i>	Behn's Damsel	7	6	0.0254	3.054	9.6775	58.0650
<i>Neoglyphidodon nigroris</i>	Behn's Damsel	8	2	0.0254	3.054	14.5503	29.1005
<i>Neoglyphidodon nigroris</i>	Behn's Damsel	10	1	0.0254	3.054	28.7630	28.7630
<i>Parupeneus multifasciatus</i>	Banded Goatfish	8	2	0.092	2.415	13.9557	27.9113
<i>Parupeneus multifasciatus</i>	Banded Goatfish	10	1	0.092	2.415	23.9215	23.9215
<i>Pempheris vanicolensis</i>	Vanikoro Sweeper	6	1	0.0119	3.026	2.69	2.69
<i>Pentapodus trivittatus</i>	Three-striped Whiptail	8	1	0.01056	3	5.4067	5.4067
<i>Plectroglyphidodon lacrymatus</i>	Jewel Damsel	2	13	0.0612	2.64	0.3815	4.9592
<i>Plectroglyphidodon lacrymatus</i>	Jewel Damsel	3	37	0.0612	2.64	1.1126	41.1674
<i>Plectroglyphidodon lacrymatus</i>	Jewel Damsel	4	32	0.0612	2.64	2.3779	76.0921
<i>Plectroglyphidodon lacrymatus</i>	Jewel Damsel	5	39	0.0612	2.64	4.2858	167.1463
<i>Plectroglyphidodon lacrymatus</i>	Jewel Damsel	7	8	0.0612	2.64	10.4186	83.3490
<i>Plectroglyphidodon lacrymatus</i>	Jewel Damsel	10	1	0.0612	2.64	26.7148	26.7148
<i>Plectropomus leopardus</i>	Coral Trout	12	1	0.01175	3.06	23.57	23.57
<i>Plectropomus leopardus</i>	Coral Trout	18	1	0.01175	3.06	81.50	81.50
<i>Pomacanthus coelestis</i>	Neon Damsel	3	13	0.0371	2.968	0.97	12.57
<i>Pomacanthus coelestis</i>	Neon Damsel	4	21	0.0371	2.968	2.27	47.70
<i>Pomacanthus coelestis</i>	Neon Damsel	5	10	0.0371	2.968	4.40	44.05
<i>Pomacentrus moluccensis</i>	Lemon Damsel	5	24	0.0703	2.65	5.0029	120.0707
<i>Pomacentrus moluccensis</i>	Lemon Damsel	6	2	0.0703	2.65	8.1107	16.2213
<i>Pomacentrus moluccensis</i>	Lemon Damsel	7	1	0.0703	2.65	12.2030	12.2030
<i>Pomacentrus moluccensis</i>	Lemon Damsel	8	1	0.0703	2.65	17.3838	17.3838
<i>Pseudocheilinus hexataenia</i>	Sixstripe Wrasse	4	2	0.0366	3	2.3424	4.6848
<i>Pseudocheilinus hexataenia</i>	Sixstripe Wrasse	5	2	0.0366	3	4.5750	9.1500
<i>Pseudocheilinus hexataenia</i>	Sixstripe Wrasse	7	4	0.0366	3	12.5538	50.2152
<i>Pseudocheilinus hexataenia</i>	Sixstripe Wrasse	8	2	0.0366	3	18.7392	37.4784
<i>Ptereleotris evides</i>	Two-tone Dartfish	10	1	0.0395	2.319	8.2337	8.2337
<i>Ptereleotris evides</i>	Two-tone Dartfish	11	2	0.0395	2.319	10.2704	20.5408
<i>Pygoplites diacanthus</i>	Regal Angelfish	5	1	0.0276	3	3.45	3.45
<i>Pygoplites diacanthus</i>	Regal Angelfish	6	2	0.0276	3	5.96	11.92
<i>Scarus hypselopterus</i>	East Indies Parrotfish	6	1	0.0169	3.049	3.9854	3.9854
<i>Scarus hypselopterus</i>	East Indies Parrotfish	7	9	0.0169	3.049	6.3766	57.3896
<i>Scarus hypselopterus</i>	East Indies Parrotfish	8	23	0.0169	3.049	9.5809	220.3616
<i>Scarus hypselopterus</i>	East Indies Parrotfish	10	7	0.0169	3.049	18.9185	132.4295
<i>Scarus hypselopterus</i>	East Indies Parrotfish	12	3	0.0169	3.049	32.9845	98.9536
<i>Scarus hypselopterus</i>	East Indies Parrotfish	15	60	0.0169	3.049	65.1312	3907.8709
<i>Scolopsis bilineata</i>	Bridled Monocle Bream	6	1	0.0149	3.141	4.1434	4.1434
<i>Scolopsis bilineata</i>	Bridled Monocle Bream	10	2	0.0149	3.141	20.6151	41.2303
<i>Siganus argenteus</i>	Forktail Rabbitfish	18	1	0.025	2.883	103.9658	103.9658
<i>Sufflamen chrysopterus</i>	Flagtail Triggerfish	5	1	0.02865	2.966	3.3905	3.3905
<i>Sufflamen chrysopterus</i>	Flagtail Triggerfish	7	2	0.02865	2.966	9.1978	18.3957
<i>Thalassoma hardwickei</i>	Six-banded Wrasse	5	2	0.0238	2.749	1.99	3.97
<i>Thalassoma hardwickei</i>	Six-banded Wrasse	10	1	0.0238	2.749	13.35	13.35
<i>Thalassoma lunare</i>	Moon Wrasse	3	7	0.0238	2.749	0.4877	3.4141
<i>Thalassoma lunare</i>	Moon Wrasse	4	3	0.0238	2.749	1.0756	3.2267
<i>Thalassoma lunare</i>	Moon Wrasse	5	3	0.0238	2.749	1.9863	5.9589
<i>Thalassoma lunare</i>	Moon Wrasse	6	1	0.0238	2.749	3.2788	3.2788
<i>Thalassoma lunare</i>	Moon Wrasse	7	2	0.0238	2.749	5.0090	10.0180
<i>Thalassoma lunare</i>	Moon Wrasse	8	5	0.0238	2.749	7.2305	36.1527
<i>Thalassoma lunare</i>	Moon Wrasse	10	4	0.0238	2.749	13.3529	53.4118
<i>Thalassoma lunare</i>	Moon Wrasse	12	7	0.0238	2.749	22.0418	154.2923
<i>Thalassoma lunare</i>	Moon Wrasse	18	1	0.0238	2.749	67.1925	67.1925
<i>Zanclus cornatus</i>	Moorish Idol	12	2	0.0172	3.171	45.4582	90.9164
<i>Zanclus cornatus</i>	Moorish Idol	15	1	0.0172	3.171	92.2388	92.2388
SUM		905	812	3.85186	348.008	1797.789	9093.0145
						MT/km2 =	9.093014509

APPENDIX II. Raw data of Fish Abundance in Depeldet Reef, Bgy. Corong-corong (Site 1)

Family	Species		Category	Fish Count			
	Scientific Name	English Name		1-10 cm	11-20 cm	> 20 cm	Total
Acanthuridae		Surgeonfishes		15	3		18
	<i>Ctenochaetus striatus</i>	Lined Bridletooth	Target	15	3		
Amphiprioninae		Anemonefishes			1		1
	<i>Amphiprion clarkii</i>	Clark's Anemonefish	Major		1		
Balistidae		Triggerfishes		3			3
	<i>Sufflamen chrysopterus</i>	Flagtail Triggerfish	Major	3			
Ostraciidae		Boxfishes		1			1
	<i>Lactoria sp.</i>	Longhorn Cowfish	Major	1			
Pempheridae		Sweepers		1			1
	<i>Pempheris vanicolensis</i>	Vanikoro Sweeper	Major	1			
Pomacentridae		Damselfishes		510			510
	<i>Abudefduf vaigiensis</i>	Sergeant Major	Major	12			
	<i>Acanthochromis polyacanthus</i>	Spiny Chromis	Major	147			
	<i>Amblyglyphidodon curacao</i>	Staghorn Damselfish	Major	70			
	<i>Chromis viridis</i>	Blue-green Chromis	Major	20			
	<i>Dascyllus reticulatus</i>	Reticulated Dascyllus	Major	33			
	<i>Dischistodus prosopotaenia</i>	Honeyhead Damselfish	Major	1			
	<i>Neoglyphidodon melas</i>	Black Damselfish	Major	3			
	<i>Neoglyphidodon nigroris</i>	Behn's Damselfish	Major	22			
	<i>Plectroglyphidodon lacrymatus</i>	Jewel Damselfish	Major	130			
	<i>Pomacanthus coelestis</i>	Neon Damselfish	Major	44			
	<i>Pomacentrus moluccensis</i>	Lemon Damselfish	Major	28			
Pomacanthidae		Angelfishes		3			3
	<i>Pygoplites diacanthus</i>	Regal Angelfish	Major	3			
Serranidae		Grouper		7	2		9
	<i>Cephalopholis cyanostigma</i>	Blue-spotted Grouper	Target	2			
	<i>Cephalopholis boenak</i>	Brown-banded Grouper	Target	2			
	<i>Cephalopholis microprion</i>	Dothead Grouper	Target	2			
	<i>Epinephelus fasciatus</i>	Black-tipped Grouper	Target	1			
	<i>Plectropomus leopardus</i>	Coral Trout	Target		2		
Caesionidae		Fusiliers		17	6		23
	<i>Caesio caerulea</i>	Blue and Gold Fusilier	Target	17	6		
Chaetodontidae		Butterflyfishes		5			5
	<i>Chaetodon baronessa</i>	Triangular Butterflyfish	Indicator	1			
	<i>Chaetodon lunula</i>	Raccoon Butterflyfish	Major	1			
	<i>Chaetodon octofasciatus</i>	Eight-banded Butterflyfish	Indicator	3			
Ptereleotridae		Dartfish		1	2		3
	<i>Ptereleotris evides</i>	Two-tone Dartfish	Major	1	2		
Holocentridae		Soldierfish and Squirrelfishes		2	1		3
	<i>Myripristis amaena</i>	Brick Soldierfish	Target	2	1		
Labridae		Wrasses		103	10		113
	<i>Bodianus mesothorax</i>	Splitlevel Pigfish	Major	2			
	<i>Epibulus insidiator</i>	Slingjaw Wrasse	Major	3	1		
	<i>Labroides dimidiatus</i>	Cleaner Wrasse	Major	34			
	<i>Labrichthys unilineatus</i>	Tubelip Wrasse	Major	2			
	<i>Halichoeres melanurus</i>	Three-eyed Wrasse	Major	21			
	<i>Hemigymnus melapterus</i>	Thick-lipped Wrasse	Target		1		
	<i>Macropharyngodon meleagris</i>	Leopard Wrasse	Major	3			
	<i>Pseudochellinus hexataenia</i>	Sixstripe Wrasse	Major	10			
	<i>Thalassoma hardwicki</i>	Six-banded Wrasse	Major	3			
	<i>Thalassoma lunare</i>	Moon Wrasse	Major	25	8		
Mullidae		Goatfishes		3			3
	<i>Parupeneus multifasciatus</i>	Banded Goatfish	Target	3			
Nemipteridae		Coral Breams		4			4
	<i>Pentapodus trivittatus</i>	Three-striped whiptail	Target	1			
	<i>Scolopsis bilineata</i>	Bridled Monocle Bream	Target	3			
Scaridae		Parrotfishes		40	63		103
	<i>Scarus hypselopterus</i>	East Indies Parrotfish	Target	40	63		
Siganidae		Rabbitfish			1		1
	<i>Siganus argenteus</i>	Forktail Rabbitfish	Target		1		
Tetraodontidae		Pufferfishes		5			5
	<i>Arothron nigropunctatus</i>	Black-spotted Pufferfish	Indicator	5			
Zanclidae		Moorish Idol			3		3
	<i>Zanclus cornutus</i>		Major		3		
Total				720	92	0	812
Percentage Ratio				89%	11%	0	100%

Family	English Name	Common/Local Name	Count (fish/500m ²)	Count (fish/1000m ²)
Acanthuridae	Surgeonfishes	Labahita	18	36
Amphiprioninae	Anemonefishes		1	2
Balistidae	Triggerfishes	Pakol	3	6
Caesionidae	Fusiliers	Dalagang Bukid	23	46
Chaetodontidae	Butterflyfishes	Paru-paro	5	10
Holocentridae	Soldierfish and Squirrelfish	Siga	3	6
Labridae	Wrasses	Mul-mol	113	226
Pempheridae	Sweepers	Baga-baga	1	2
Mullidae	Goatfishes	Saramulyete	3	6
Nemipteridae	Coral Breams	Bisugo	4	8
Ostraciidae	Boxfishes	Baka-baka	1	2
Pomacentridae	Damselfishes	Palata	510	1020
Pomacanthidae	Angelfishes	Paru-paro	3	6
Ptereleotridae	Dartfishes		3	6
Scaridae	Parrotfishes	Mul-mol	103	206
Serranidae	Grouper	Lapu-lapu	9	18
Siganidae	Rabbitfish	Samaral	1	2
Tetraodontidae	Pufferfish	Botete	5	10
Zanclidae	Moorish Idol		3	6
TOTAL FISH DENSITY			812	1624

Fish Group	
Target Species	165
Coral Indicator Species	9
Major Species	638
Total	812



Department of Environment and Natural Resources
MIMAROPA Region
PROTECTED AREA MANAGEMENT OFFICE
EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA
Barangay Masagana, El Nido, Palawan



Location Map Showing the Site 1 "Depeldet" of Coral Reef Assessment within El Nido-Taytay Managed Resource Protected Area



SCALE: 1: 7,500
Projection: World Geodetic System (WGS) 1984

Total Area: 33.77 Ha

Legend

●

Depeldet-Point

■

Depeldet-Polygon

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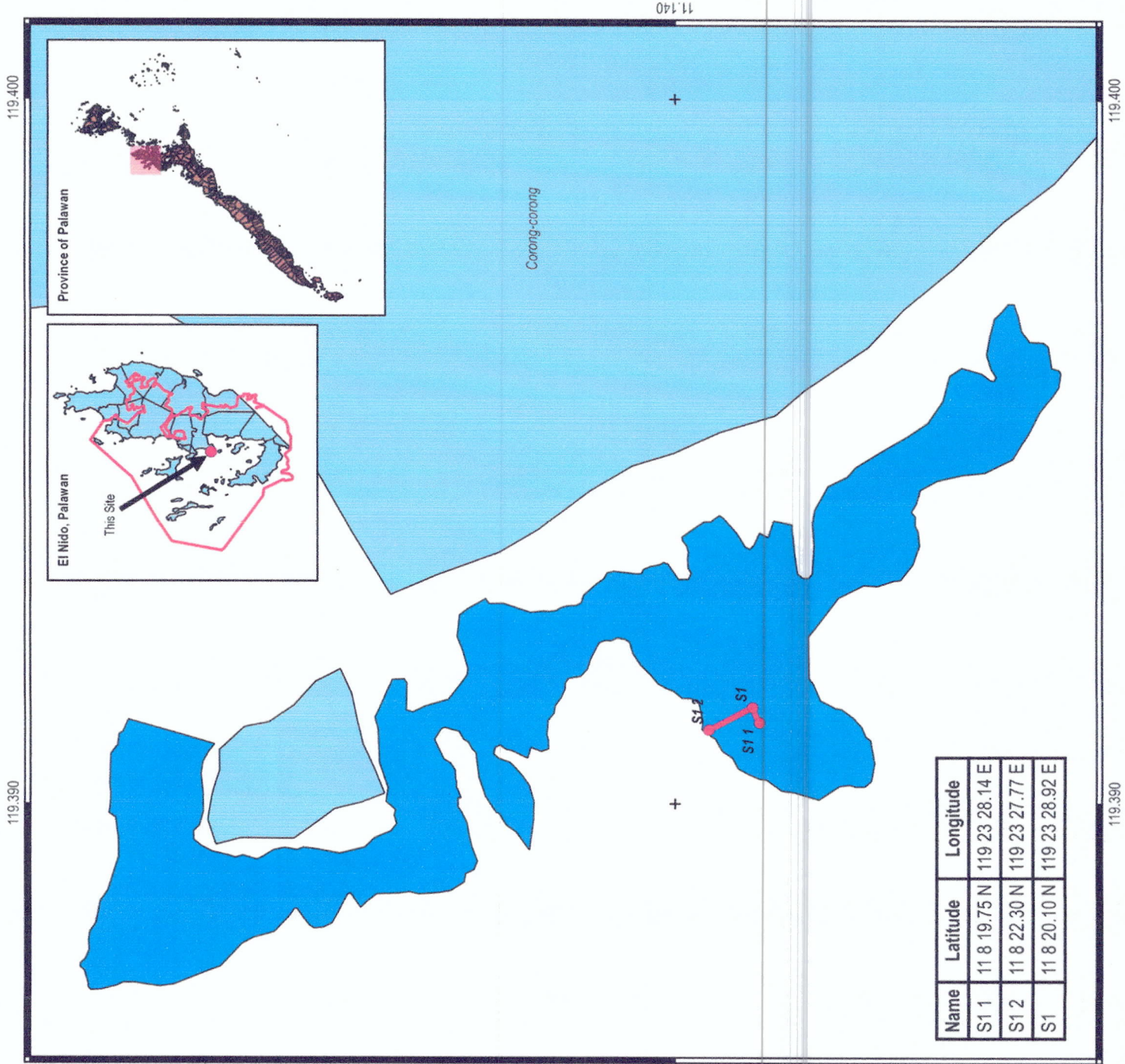
Depeldet-Line

□

Barangay Boundary

CERTIFICATION

THIS IS TO CERTIFY that this area is within EL NIDO-TAYTAY
MANAGED RESOURCE PROTECTED AREA (ENTMRPA) as per
Presidential Proclamation No. 32 dated October 8, 1998



Name	Latitude	Longitude
S1 1	11 8 19.75 N	119 23 28.14 E
S1 2	11 8 22.30 N	119 23 27.77 E
S1	11 8 20.10 N	119 23 28.92 E

WATER QUALITY MONITORING FIELD DATA FORM

SITE : ENMRPA
Date of Sampling : February 9, 2023
Sampling Team : ENMRPA-PAMO

Parameter	Sampling Station	
	1. Snake Island (seagrass)	2. Depeldet Island (coral reef)
GPS Coordinates	11°5'37.27"N, 119°20'25.69"E	11°8'31.58"N, 119°23'32.60"E
Time of Sampling	12:52 PM	1:40 PM
Cloud Cover (%)	15%	50%
Weather Condition	Fair	Cloudy
Visual Color of Water	Clear	Clear
Other Observations	Tourism activity observed (swimming)	Crown of Thorns infestation
In situ Analysis (Multiparameter Checker)		
pH	8.16	8.25
Temperature (°C)	32.64	31.1
Dissolved Oxygen (mg/L)	5.71	6.4
Conductivity (µS/cm)	40.8	41.3
Turbidity (NTU)	0	0
Salinity (ppt)	26.03	26.42
Total Dissolved Solid (g/L)	24.9	25.2
Oxidation Reduction Potential or ORP (mV)	122	120
Transparency (cm)	NA	NA

Remarks:

on-site validated by:

STEVEN  . ANDAO