

BORACAY REHABILITATION PROGRAM



Pursuant to Republic Act No. 10121 or the Philippine Disaster Risk Reduction and Management Act of 2010 and by virtue of Proclamation No. 475 s. 2018, a state of calamity remains in full force and effect in the three identified barangays in the Municipality of Malay in Aklan after President Duterte called the once paradise as “cesspool” prior to the rehabilitation. Relative to this, the Boracay Inter-Agency Task Force (BIATF) was created in compliance with Executive Order 53 to facilitate the rehabilitation and ensure the ecological sustainability of the island. Unfortunately, the BIATF was dissolved in April 2020. However, through the issuance of the Executive Order No. 115, this implementing arm of the government was extended until May 2021. This extension has been made because the island still needs rehabilitation and enhancement.

In compliance with EO 53, the NEDA spearheaded the crafting of the Boracay Action Plan (BAP). In order to achieve the vision for the Boracay Island rehabilitation, the following themes were identified.

Theme 1 – Enforcement of laws and regulations

Theme 2 – Pollution Control and Prevention

Theme 3 – Rehabilitation and recovery of ecosystems

Theme 4 – Sustainability of island activities (4a: transport and utilities; 4b: social services including health, education and housing; 4c: economic opportunities including livelihood and tourism)

The rehabilitation of the Boracay Island adhered to seven Key Result Areas (KRAs) that served as guidelines of the BIATF for the closure of the island for six months (April 26 to October 26, 2018). The DENR, as one of the lead agencies, was involved in KRAs 2, 3, 5.

KRA 1 – Providing Social Safety Nets through training, livelihood, and employment assistance

KRA 2 – Ensuring the Health and Sanitation of Boracay Island

KRA 3 – Decongesting Boracay Island

KRA 4 – Easing traffic flow

KRA 5 – Enforcing the rule of law in Boracay Island

KRA 6 – Engaging the stakeholders and the public through an effective domestic and global communications strategy

KRA 7 – Crafting and implementation of a medium-term Comprehensive Ecosystem Rehabilitation and Recovery Program

Theme 1: Enforcement of Laws and Regulations (Relevant KRAs 3, 5 and 6)

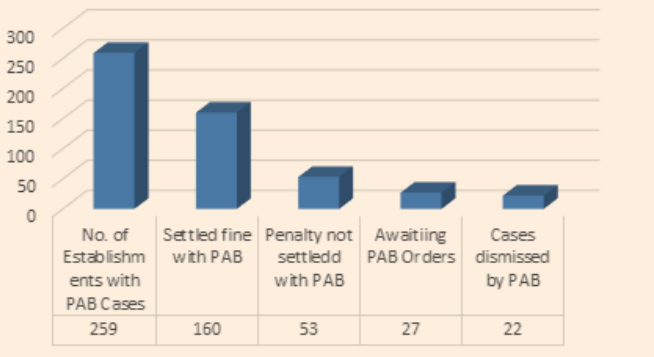


Figure 3.1 Pollution Adjudication Board Cases as of August 2019

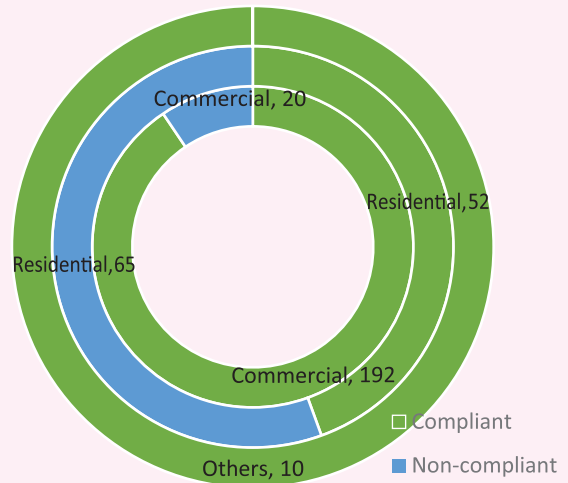


Figure 3.2 Compliant and non-compliant commercial and residential establishments on the 25+5 beach easement monitoring

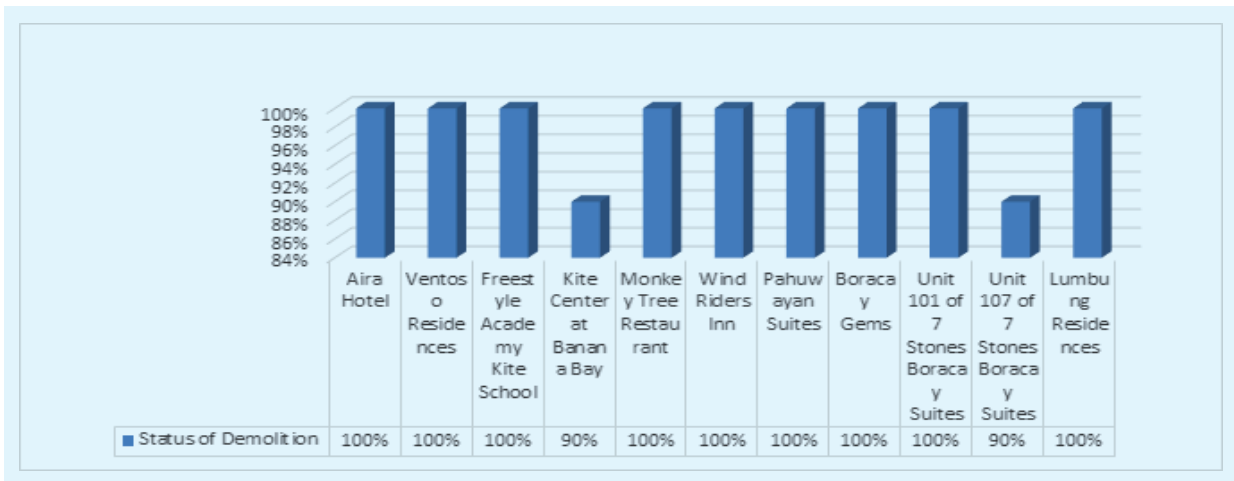


Figure 3.3 Status of Demolition of establishments affected by the 25+5 easement

**Kite Center at Banana Bay, 90% accomplished as of 21 July 2020 (ongoing demolition); Unit 107 of 7 Stones Boracay Suites, 90% demolished as of 10 January 2020 (needs retrofitting)

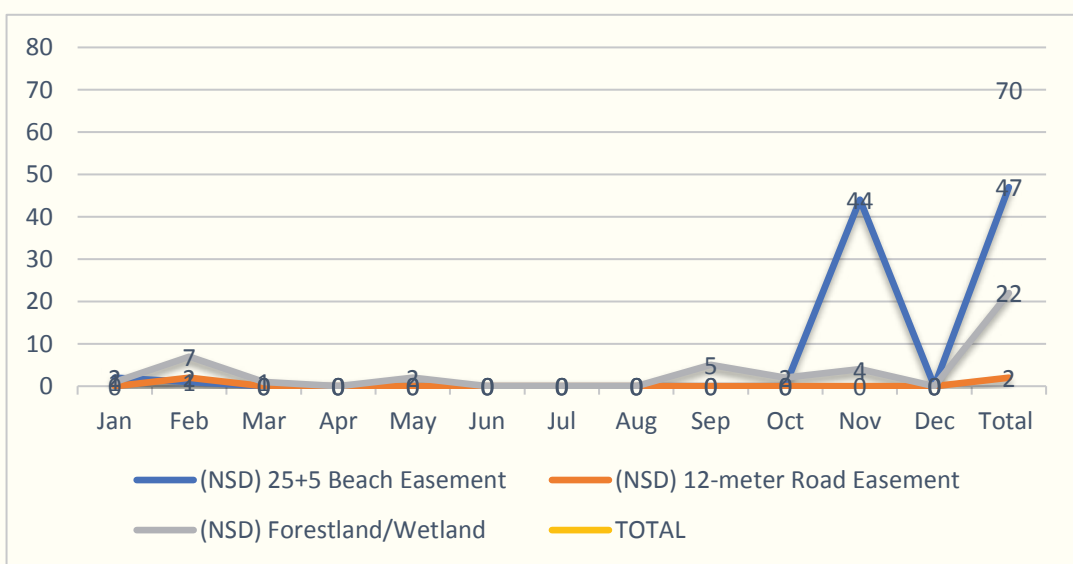


Figure 3.4 Monthly breakdown of the issued Notice of Self-Demolition

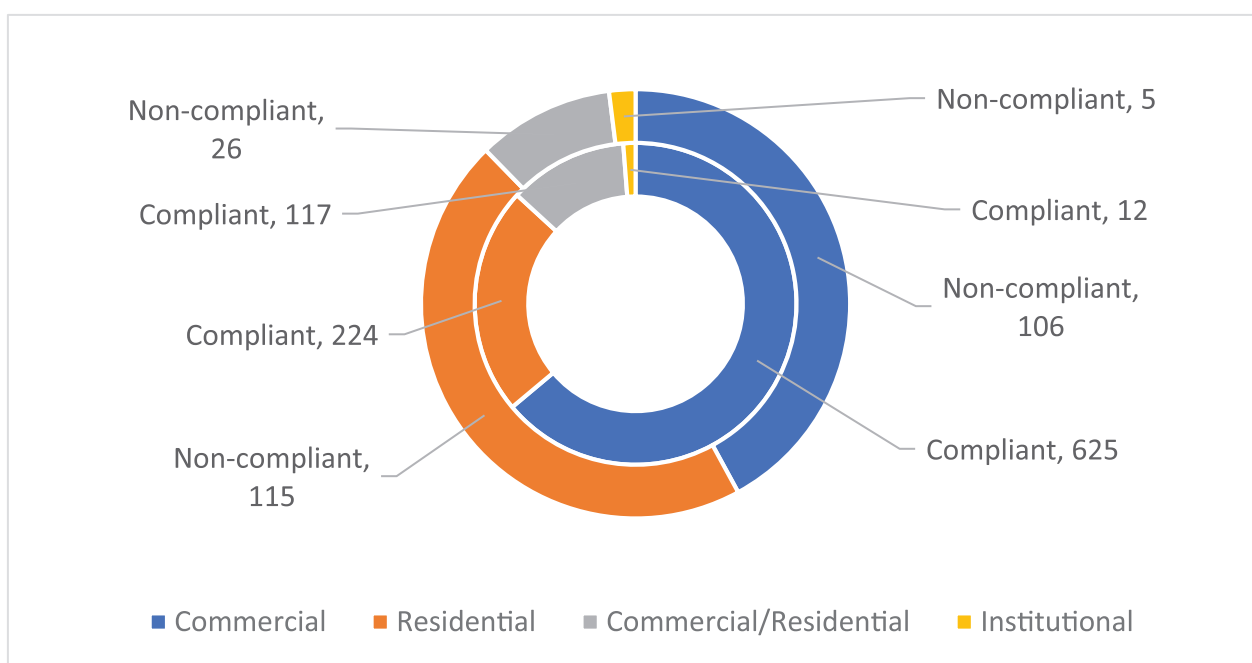


Figure 3.5 12-Meter Road Easement Compliance Monitoring

*These figures are the result of the completed revalidation of CENRO Boracay which started last November 2019.

*Phase III of the 12-meter road easement has started demolition on March 20, 2020 (Bloomfield Academy to Manoc-manoc Highschool/Bantud to Cagban Port/AKY Gas station to Tulubhan/ Mt. Luho to Sinagpa/ABC restaurant to Puka Beach) but was halted on March 22, 2020 due to COVID-19 Enhanced Community Quarantine implementation in the Municipality of Malay.

Revalidation/Re-inventory of Forestland Occupants in Boracay Island as of December 2020

FL Blocks	2017	2018	2019_CENRO Revalidation			2018		To be issued with NTV	NBI_Case (2017, 2018, 2019)	NBI_Case (2020)	Titled	Demolished structures	Vacated the area	Self-demolished
	Total No. of structures	Total No. of structures	Total No. of HH Occupants	Total No. of structures	Total No. of claimants	SCO	NTV							
A	171	124	138	145	100	126	44	111	1		5			
B	6	3	7	11	3			7			3			
C	2	1	1	1	1	1		1			1			
D		1	1	2	1			1			2			
E	254	347	310	368	266	153	151	219	43	5		7	11	1
F	6	13	0	0	0	5	1	0				13		
G	269	239	152	159	100	169	107	97	1			122		
H	117	136	78	80	70	107	77	56				1		
I	14	18	11	11	11	11	11	5						
J	2	3	3	13	3	1	1	1	1					
P	1		1	1	1			0						
Total	842	885	702	791	556	573	392	378	46	5	11	143	11	1

FL Blocks	2017	2018	2019_CENRO Revalidation			No. of Big Establishments	With Issued SCOs/NTVs
	Total No. of structures	Total No. of structures	Total No. of HH Occupants	Total No. of structures	Total No. of claimants		
A	171	124	138	145	100	3	1
B	6	3	7	11	3	2	1
C	2	1	1	1	1		
D		1	1	2	1		
E	254	347	310	368	266	40	30
F	6	13	0	0	0		
G	269	239	152	159	100	1	1
H	117	136	78	80	70		
I	14	18	11	11	11		
J	2	3	3	13	3	1	1
P	1		1	1	1		
Total	842	885	702	791	556	47	34

Figure 3.6 Inventory of Forestland Occupants in Boracay Island (top) and per Forestland block (bottom)

(Source: 32nd Monthly Report, DENR BIATF Secretariat)

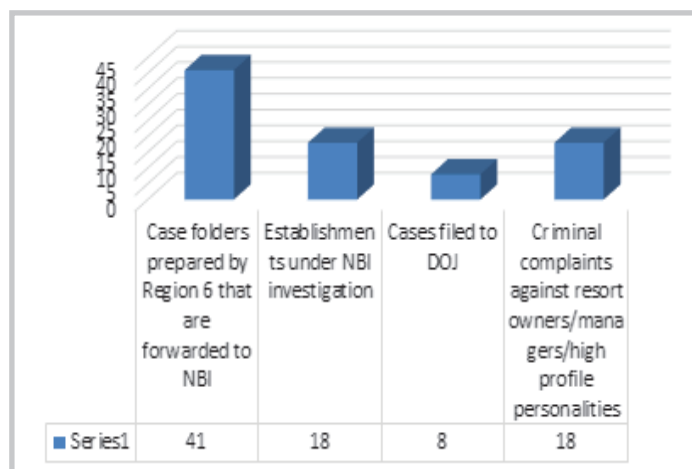


Figure 3.7 Court cases filed against illegal occupants of forestlands

SMART-BIMS on Boracay Port Digitalization

Given the threat caused by the COVID-19, the Aklan Provincial Information and Communications Technology Office (APICTO) decided to put up a project to shift from offline systems to port digitalization. This digitalization is called SMART-BIMS, which unifies the players of the port in a common interface. This also provides seamless tourist experience via common interface when purchasing multiple tickets such as boat and terminal and environmental fees. APICTO and SMART-BIMS agreed to use Enhanced Tax Revenue Assessment and Collection System (ETRACS) as the billing system for purchasing and/or releasing bar codes.

Water Quality Monitoring

Ambient sampling at Front Beach (Compliance: Class SB Standard-100MPN/100mL)

Table 8. Results of Ambient sampling at Front Beach

Sampling Station (Ambient)	Result of Ambient sampling at Front Beach (Compliance: Class SB Standard-100MPN/100mL)					
	January	Mar-10	June	July	August 28	November 19, 2020
Angol Point	7.1					
Villa Camilla	2					
Molina Vacant Lot	2					
Sand Boracay	5					
Bamboo Resort	2					
Henann Palm	3					
Boat Station 2	1		5.2			
LGU Structure	<1					
Bamboo Bungalow	1		4.1			
Shorebreak Spa	<1					
Royal Park	<1					
Diamond	<1					
Water Colors	2					
Pearl of the Pacific	<1					
Two Season	3					
Sinagpa	1					
Fridays Beach	1		10.5			
Manocmanoc			344.8		2,400	49
Tambisaan Pier			53.7		350	920
Lingganay Boracay			73.8		2,200	1,700
Tulubhan Pier			37.3		790	470
Palassa Residence			135.4		15	2,400
Ralph's Place			40.2		23	280
New Coast Boracay			6.3			6.8
Ilig-Iligan			3			4.0
Puka Beach			42.6			22
Movenpick			13.2			6.8
Diniwid			17.1			21
Steve Cliff	1		158.5			6.8
Front Beach Grotto			16			6.8
Boat Station 1			7.5			23
Boat Station 3			20.1			22
Angol Point			43.7			14
Asya Premiere			22.8			17
Cagban Jetty Port			290.9		22	49
Outfall (In front of Kingfisher)			7630			11,000,000
Bolabog Ambient						
Henann Property		2.0			33	2,400
ATI Village		3.0			13	5,400
Palassa Spa/Residence		1.0			15	2,400
Hangin Kite		4.1				
Aira		1.0				
TIEZA Pumping Station		461.1				

Table 9. Water Quality Status of Wetlands as of August 9, 2020

WATER QUALITY STATUS	STATUS AT THE START OF REHABILITATION (MOST PROBABLE NUMBER PER 100 ML)	LAST READINGS (MOST PROBABLE NUMBER PER 100 ML)	UPDATED READINGS (MOST PROBABLE NUMBER PER 100 ML)	
			August 25, 2020	November 19, 2020
Wetlands	May 18, 2018	June 8, 2020	August 25, 2020	November 19, 2020
Wetland No. 1	35,550	100	4,500	130,000
Wetland No. 2	12,200	2,310	2,300	35,000
Wetland No. 3	241,960	No sample	9,300	540,000
Wetland No. 4	53.8	200	2,300	490
Wetland No. 5	2,130	9,880	35,000	79,000
Wetland No. 6	12,910	5,940	1,300	49,000
Wetland No. 7	517,200	206,400	No sample was taken as the existing water was simply a run off	490,000
Wetland No. 8	38,730	1,890	9,400	13,000
Wetland No. 9	3,070	630	92,000	54,000

(Source: 32nd Monthly Report, DENR BIATF Secretariat)

Sewage Treatment Plant (STP) as per Memorandum Order No. 2018-04 as of July 26, 2020

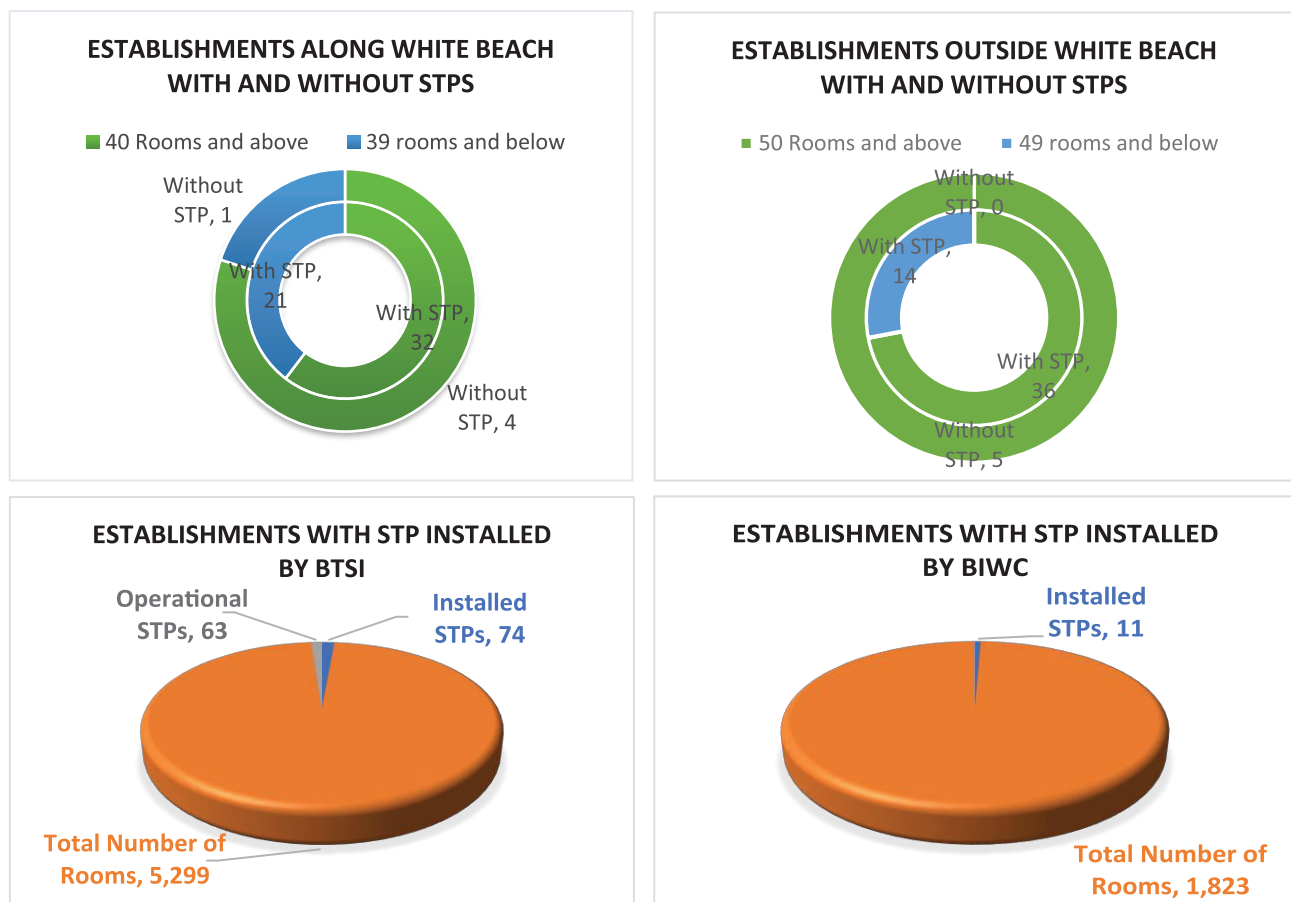


Figure 3.8 Establishments installed with and without Sewage Treatment Plants

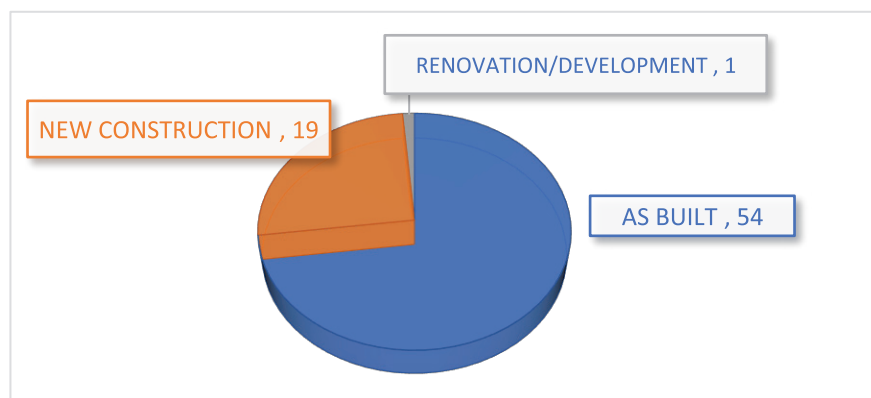


Figure 3.9 Approved Environmental Compliance Certificates/Certificate of Non-Coverage from November 2018 to present

(Data Source: 32nd Monthly Report, DENR BIATF Secretariat)

Theme3: Rehabilitation and Recovery of Ecosystems (Relevant KRA: 3)

Part of the Rehabilitation and recovery of wetland ecosystems in the island is the weekly conduct of IEC and Clean-up drive of the eight (8) remaining wetlands in Boracay Island. Despite the massive rehabilitation efforts in safeguarding the Wetlands from exploitation, reports from the monitoring personnel are still being received with regards to proliferation of solid waste inside the wetland. These solid wastes are suspected to be coming from the community living within and nearby the wetlands. With this concern, the DENR-BIARMG initiated a clean-up drive volunteer program and Information, Education and Communication (IEC) campaign in all classified wetlands of Boracay Island. The target participants of this volunteer program are the people from the community residing within and near the wetlands. The community is called to be volunteers for them to have a sense of ownership and responsibility of the wetland where they reside, and later on, become stewards on protecting and maintaining the cleanliness of the wetland. Thus, the “Boracay Wetland Bayanihan Program: We Clean and Heal as One”. A Wetland Clean-Up Volunteer Program in Boracay Island, Malay, Aklan was launched last August 11, 2020 and collected a total of 36,551 kg of accumulated garbage.

Update on trees within Forestland and Wetland damaged by Typhoon Ursula

Below is the inventory of fallen trees damaged by Typhoon Ursula. The inventory was conducted by DENR-CENRO Boracay with report submitted last March 5, 2020. These trees will be donated to the members of Boracay Tumandok Agrarian Reform Beneficiaries Association (BTARBA), and the CLOA beneficiaries of the relocation program of DAR Region 6 in Boracay Island. The 31 beneficiaries will be relocated to Sitio Angol from Wetland number 6.

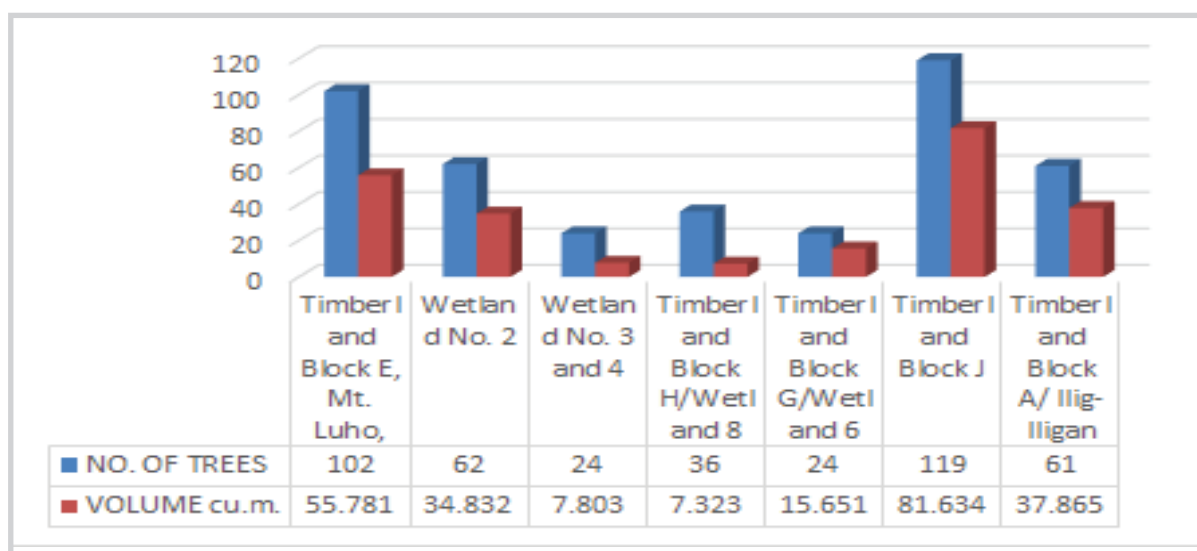


Figure 3.10 Trees within forestland and wetland damaged by Typhoon Ursula

Conduct of Coral assessment, Fish Visual Census and Seagrass Survey along the Coastal and Marine Areas of Boracay Island

As of 30 September 2020, the results of the assessment, mapping and delineation of coastal and marine resources and marine protected areas were presented by the DENR Region 6 contractor Dagatnon Environmental Consultancies via Zoom to the Boracay Stakeholders as well as Barangay LGUs on a consultation meeting conducted by the DENR Region 6 Coastal Development Division dated September 30, 2020 at Boracay Island. The assessment was found crucial for the rehabilitation of Boracay Island and the way forward is to conduct an Integrated Coastal Management Plan for the months to come in order to address the issues found.

Detailed Subsidence Hazard Assessment

The Mines and Geosciences Bureau conducted field survey on karst subsidence hazard assessment in Brgy. Yapak and Balabag from December 7–15, 2020. Based on the assessment, the recommendations of MGB are as follows:

1. The result of this 2020 karst subsidence assessment further supports the earlier findings of active subsidence in Boracay Island as indicated in the GPR radar images, collapsed features, increased number of sinkholes, lowered ground surface, and higher flood height;
2. Areas with dissolution shafts, buried sinkholes and/or circular depressions indicating presence of sinkholes must be free of heavy development; structures to be constructed must be of light materials;
3. Avoid diversion of surface water flows in the vicinities of wetlands and towards identified sinkholes to prevent subsurface erosion and minimize the rate of dissolution activity in the area;
4. Disposing of garbage and wastewater to sinkholes and caves should be averted to prevent contamination of groundwater. Septic tanks should be well protected/fully cemented. Proper solid waste management must be implemented in residential and commercial areas;
5. In case of development, a geotechnical/engineering and other site-specific study (i.e., ground penetrating radar survey, borehole logging) should be conducted and appropriate hazard mitigating measures/structures at the site should be implemented as deemed necessary by project engineers; consult other technical experts on rock and soil mechanics, structural and engineering geologist, etc.) on the aforesaid hazards;
6. Heavy infrastructure, road development, and settlements must not be allowed especially in wetlands and areas with delineated manifestations of active subsidence such as sinkholes and presence of caves be continuously monitored; and
7. Further detailed studies on karst hydrogeology, coastal erosion and subsidence hazards in the island must be done.

Ways Forward

- ✚ To attain the medium to long-term goals desired for Boracay Island
- ✚ Identify an entity that will sustain the gains achieved in Boracay rehabilitation. The entity will have the following functions:
 - Update, as needed or develop a new Island Plan – integration/harmonization of various agency-specific sectoral plans including those of other stakeholders private sector, CSOs etc
 - Oversee/coordinate the implementation of the plans, manage and monitor the activities. {Continue to coordinate/monitor the remaining activities in the BAP}
 - Harmonize policies (in place and those that will be formulated) to ensure sustainable development of the Island and look into crafting a Boracay Development Plan taking-off from the BAP
 - Ensure stronger inter-agency collaboration beyond the BIATF term/BAP implementation period
- ✚ Continue collaboration and partnership of all stakeholders to create the needed behavioral change that would keep people from endangering their natural wealth from which they derive their source of livelihood

(Source: 32nd Monthly Report, DENR BIATF Secretariat)