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Republic of the Philippines
Department of Education
REGION VIII - EASTERN VISAYAS

July 4, 2023

OFFICE MEMORANDUM

QAD-2023- 404

**CLOSURE OF MAILHI ELEMENTARY SCHOOL, BAYBAY CITY
DIVISION, WITH SCHOOL ID NO. 121090**

To: Schools Division Superintendent
All Others Concerned

1. The Department of Education, Regional Office VIII through the Quality Assurance Division (QAD) announces the **CLOSURE of MAILHI ELEMENTARY SCHOOL**, Baybay City Division, Baybay City, Region VIII with **School ID No. 121090**, effective SY 2023-2024. The closure of the said school is in response to the communication received from the Schools Division Superintendent of Baybay City Division indicating the following reasons:

- a. Brgy. Mailhi residents were relocated due to the MGB Post Disaster Geohazard Assessment Ref. No. 2022-05-007 result;
- b. Some residents of Brgy. Mailhi were permanently relocated to Brgy. Higuloan, Baybay City, Leyte while some residents were temporarily relocated to the different barangays of Baybay City namely Brgy. Kambonggan, Brgy. Gubang and Brgy. Imelda;
- c. All learners were already transferred to nearby schools, like Higuloan ES and Kambonggan ES where they had been located. The said transfer was already tagged in the Learner's Information System (LIS)

2. Complete findings and recommendations from MGB Geo Ref. No. 2022-05-007 are hereby attached for perusal.

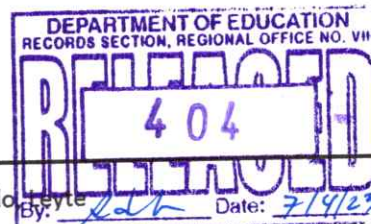
3. The Schools Division Superintendent is hereby empowered to facilitate the following:

- a. Deployment of the School Head and Teachers;
- b. The MOOE allocation; and
- c. Safekeeping and repository/archive of all the pertinent documents.

4. Immediate dissemination of and strict compliance with this Memorandum are desired.

NR
EVELYN R. FETALVERO, CESO IV
Regional Director

QAD-GLA



Address: Government Center, Candahug, Palok, Leyte
Telephone No.: (053) 832-5738
Email Address: region8@deped.gov.ph
Website: https://region8.deped.gov.ph



Republic of the Philippines
Department of Education
 REGION VIII
SCHOOLS DIVISION OF BAYBAY CITY

SDO COPY

OFFICE OF THE DIRECTOR IV
 Date and Time Received: 30 JUN 2023
 Date and Time Released: _____
 Signature: _____
 Signature: _____

Dr. Evelyn R. Fetalvero, CESO IV
 DepEd Region VIII
 Regional Director

Through :

Cesar R. Verunque
 Chief-Quality Assurance Division
 DepEd Region VIII

DEPARTMENT OF EDUCATION June 8, 2023
NECI
 REGIONAL OFFICE NO. VIII
 JUN 30 2023
 1848
 BY: [Signature] TIME: 8:54AM

Ma'am/Sir:

Good day and Mabuhay!

This is to inform your good office that the Schools Division of Baybay City is applying for the closure of Mailhi Elementary School. This decision was given a significant amount of thought and consideration. Below are the bases for our recommendation for the closure of the said school;

1. Brgy. Mailhi residents were relocated due to the MGB Post Disaster Geohazard Assessment Ref. No 2022-05-007 result.
2. Some residents of Brgy. Mailhi were permanently relocated to Barangay Higuloan, Baybay City, Leyte, while some residents were temporarily relocated to the different barangays of Baybay City namely: Brgy. Kambonggan, Brgy. Gubang, and Brgy. Imelda
3. All learners were already transferred to nearby schools like Higuloan ES and Kambonggan ES, where they had already been located. The said transfer was already tagged in the Learners' Information System (LIS).

Complete findings and recommendations from MGB Geo Ref. No. 2022-05-007 and Resolution No. 2022-160 are attached to this letter for your perusal.

We are hoping for a positive result from our request.

Respectfully yours,

MANUEL P. ALBAÑO, PhD CESO V
 Schools Division Superintendent

RELEASED
 JUN 16 2023
 DATE: _____
 BY: 8.25
 BAYBAY CITY, LEYTE

SDO COPY



Republic of the Philippines
Department of Education
 REGION VIII
SCHOOLS DIVISION OF BAYBAY CITY

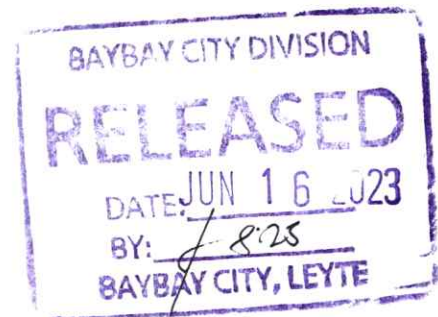


OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

1ST ENDORSEMENT
 June , 2023

RESPECTFULLY forwarded to **Dr. EVELYN R. FETALVERO**, CESO IV, Regional Director, Department of Education (DepEd), Region VIII, Candahug, Palo, Leyte thru **QAD** the herein **Application for the Closure of MAILHI ELEMENTARY SCHOOL** with attached document/s to justify our official action and wherefore inviting attention and recommending approval by that rightful office.


MANUEL P. ALBAÑO, PhD, CESO V
 Schools Division Superintendent





Republic of the Philippines
Department of Education
REGION VIII
SCHOOLS DIVISION OF BAYBAY CITY

June 8, 2023

Dr. Evelyn R. Fetalvero , CESO IV
DepEd Region VIII
Regional Director

Through :

Cesar R. Verunque
Chief-Quality Assurance Division
DepEd Region VIII

Ma'am/Sir:

Good day and Mabuhay!

This is to inform your good office that the Schools Division of Baybay City is applying for the closure of Mailhi Elementary School. This decision was given a significant amount of thought and consideration. Below are the bases for our recommendation for the closure of the said school;

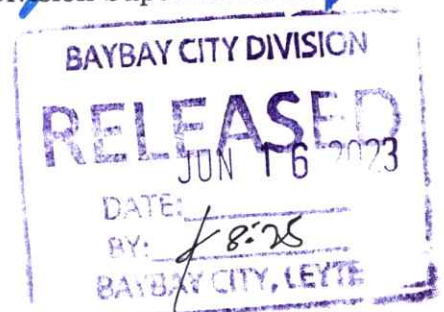
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Complete findings and recommendations from MGB Geo Ref. No. 2022-05-007 and Resolution No. 2022-160 are attached to this letter for your perusal.

We are hoping for a positive result from our request.

Respectfully yours,

MANUEL P. ALBAÑO, PhD CESO V
Schools Division Superintendent





Republic of the Philippines
Department of Education
 REGION VIII
SCHOOLS DIVISION OF BAYBAY CITY
 Diversion Road Brgy. Gaas Baybay City, Leyte

VERIFICATION ON THE ACTUAL SITUATION OF MAILHI ELEMENTARY SCHOOL & MAILHI NATIONAL HIGH SCHOOL

ISSUES AND CONCERN	FINDINGS
<p>1. Schools are not currently used.</p> <ul style="list-style-type: none"> - The school sites were situated merely estimated 5 kilometers from the landslide incident of Sitio Waterfall and Tinago in Brgy. Mailhi, Baybay City, Leyte. 	<p>-City of Baybay, Office of the Sangguniang Panlungsod Resolution No. 2023 – 160 that the Brgy. Mailhi declared as Danger Zone/non-habitable and so this said schools should not be utilized or used by school personnels and learners based on the Post-Disaster Geohazard Assessment Report on the Landslide and Flood Affected Areas due to Tropical Cyclone "Agaton" in the City of Baybay, Province of Leyte conducted by Mines and Geosciences Bureau Region 8.</p> <p>-In addition, based on our on-site ocular inspection last May 24, 2023, the school buildings of this schools are still in good conditions and there were no found of large cracks on school lots.</p> <p>-It is highly recommended for the City Disaster Risk Reduction Management Office as well as the City Engineering Office to conduct an on site validation for their assessment on the structure or other mitigations to ensure the safety among school personnel and students as well.</p>

*attached herewith are the Resolution No. 2023-160 & Post-Disaster Geohazard Assessment Report by MGB Region 8.

Jointly Inspected by:

James Edward L. Gonzales 6/10/23
JAMES EDWARD L. GONZALES
 DepEd Project Engineer

Ruel T. Mahipos
RUEL T. MAHIPOS
 Division DRRM Coordinator

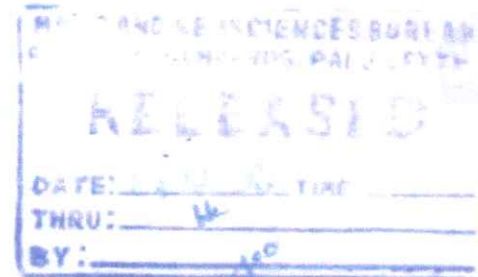




MGB Geo Ref. No. 2022-05-007

April 29, 2022

HON. JOSE CARLOS L. CARI
 City Mayor
 Baybay City
 Province of Leyte



Dear Mayor Cari:

This is with regard to the Post-Disaster Geohazard Assessment conducted by the Mines and Geosciences Bureau Regional Office No. 8 regarding the landslides caused by Tropical Cyclone "AGATON".

Based on the Detailed Landslide and Flood Susceptibility Map (1:10,000 scale) of the City of Baybay, Province of Leyte and the field assessments conducted, several portions of the city are situated on sites classified as having **Very High Landslide and Very High Flood Susceptibility Ratings**. Adherence to the **Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01** is recommended.

Attached are the findings and recommendations and the pertinent Geohazard Maps of the sites based on the field assessment.

Very truly yours,


CARLOS A. TAYAG, CESE
 Regional Director



POST-DISASTER GEOHAZARD ASSESSMENT REPORT ON THE LANDSLIDE AND FLOOD AFFECTED AREAS DUE TO TROPICAL CYCLONE "AGATON" IN THE CITY OF BAYBAY, PROVINCE OF LEYTE

I. INTRODUCTION

As part of the activities of its Geohazard Operation Center, the Mines and Geosciences Bureau Regional Office No. 8 (MGB-8) conducted a Post-Disaster Geohazard Assessment of the flood and landslide-affected areas in the City of Baybay, Province of Leyte. The field assessment was conducted on April 17, 19, and 20, 2022, by Ennah Marie D. Ambe (Geologist II), Charles Meljan T. Nomus (Geologist), and Iris Yvette A. Cesista (Geologist) together with representatives from Baybay City ENRO and Baybay-LGU. The assessment covered Barangays are Bunga, Can-Ipa, Kantagnos, Mailhi, Maypatag, Makinhas, Kagumay, Villa Mag-aso, and Gaas.

II. BACKGROUND INFORMATION

Upon the issuance of the 24-hour Public Weather Forecast from the Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) regarding the Low Pressure Area (LPA) located 970 km east of Guiuan, Eastern Samar (11.0°N, 134.6°E), the Mines and Geosciences Bureau Regional Office No. 8 (MGB-8), in coordination with the MGB - Central Office and the Office of Civil Defense Regional Office No. 8 (OCD-8), activated its Geohazard Operation Center to closely monitor the updates regarding the tropical cyclone's track and its possible effects on Eastern Visayas.

According to the Tropical Cyclone Advisories issued by PAGASA, "Agaton" developed from a Low Pressure Area into a Tropical Depression (defined as a tropical cyclone with maximum sustained winds of up to 62 km/h) before further intensifying into a Tropical Storm (defined as a tropical cyclone with maximum sustained winds of 87-117 km/h). The timeline and track for Tropical Cyclone "Agaton" is shown below.

At 5:00 AM of April 9, 2022, PAGASA issued Tropical Cyclone Bulletin #1 for the Low Pressure Area (LPA) within the Philippine Area of Responsibility (PAR) which developed into Tropical Depression "Agaton". By 5:00 AM of April 10, 2022, "Agaton" had further intensified into a Tropical Storm while moving west northwestward over the coastal waters of Guiuan, Eastern Samar. Succeeding Tropical Cyclone Advisories issued on April 10-11, 2022 indicate that Tropical Storm "Agaton" continued to move slowly and maintain its strength over Leyte Gulf before making landfall over the northeastern coast of Leyte. By 8:00 AM of April 11, "Agaton" had weakened to a

Tropical Depression and remained stationary over San Pablo Bay before making landfall over Basey, Samar at around 5:00 PM of April 11, 2022. Tropical Depression "Agaton" continued to move over Samar Island before weakening to a Low Pressure Area at around 11:00 PM on April 12, 2022 and eventually dissipating over the eastern coast of Samar.

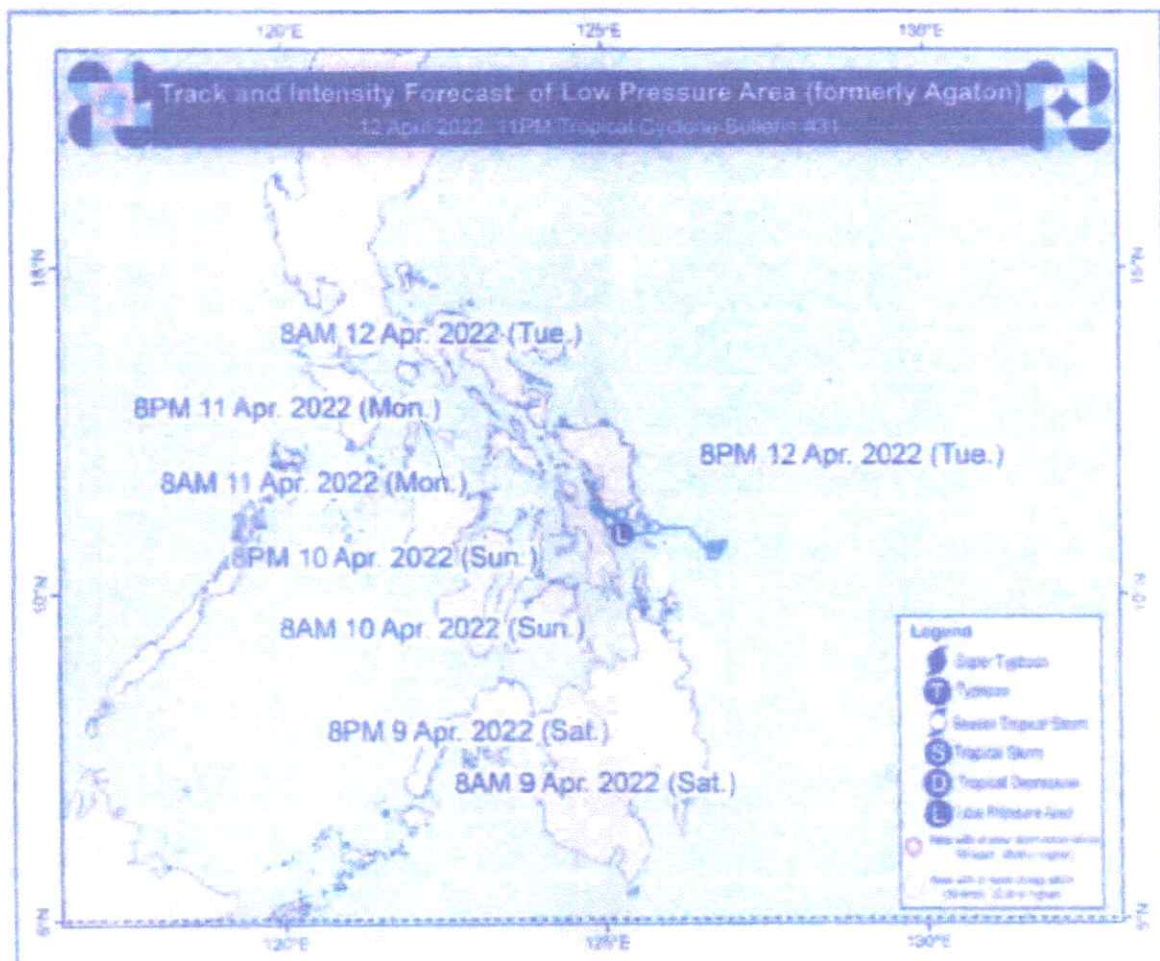


Figure 1. Track of Tropical Cyclone "Agaton" as of 11:00 PM of April 12, 2022
(Source: DOST-PAGASA, 2022)

Due to the track of the tropical cyclone, much of the region experienced heavy and prolonged rainfall from April 8-12, 2022. Consequently, landslide and flooding events were reported throughout Eastern Visayas. The landslides reported in Baybay City, Province of Leyte are the subject of this report.

III. FINDINGS AND OBSERVATIONS

1. A numerous observation points of landslides, tension cracks, and flooded areas were identified near communities, all attributed to Tropical Cyclone "Agaton". These are located within nine (9) barangays – namely Bunga, Can-Ipa, Kantagnos, Mailhi, Maypatag, Makinhas, Kagumay, Villa Mag-aso, and Gaas. The identified landslide areas are shown in Table 4 below.

including their geographical coordinates. Other landslide indicators (e.g. tension cracks, terracettes) are also listed below.

Table 1. Landslide areas in the City of Baybay, Province of Leyte.

Barangay	Latitude	Longitude	Remarks
Sitio Tinago	10.634594	124.9088	Landslide crown Waypoint 3 Slope face S58W
	10.634708	124.90869	Waypoint 4 Slope face S58W
	10.634769	124.908669	Waypoint 7 Slope face S
	10.63478	124.908274	Waypoint 8 Slope face S
	10.63478	124.9083	Waypoint 9 Slope face S80E
	10.63442	124.9078	Waypoint 10 Slope face S77E
	10.633705	124.907075	Waypoint 16 Slope face S52W Ponding of water present
	10.635001	124.9052	Waypoint 18 Slope face S52W Extension of the crown from waypoint 16
	10.634845	124.9046	Waypoint 19 Slope face S61E
	10.634744	124.9044	Waypoint 20 Slope face S77E
	10.63271276	124.9087	Waypoint 23 Slope Face S
Sitio Waterfall	10.631222	124.912305	Active Landslide Zone Slope Face SW
Brgy. Kagumay	10.654955	124.87068	Waypoint 561 Elementary School fence collapsed as a result of the strong force from the flood
Brgy. Kagumay	10.655027	124.871781	Waypoint 562 Makeshift rrap along the river was also destroyed due to the flood
Brgy. Kagumay	10.655783	124.872693	Waypoint 563 Slope face N Complex landslide along the tributary of Pagbanganan River, material consists of debris and mud, springs present
Brgy. Kagumay	10.65516	124.869544	Waypoint 564 Slope face S Translational slide along the river, weathered bedrock facing the

Brgy. Kagumay	10.654347	124.868371	Waypoint 565 Covered court floor with mud from sheet flooding
Brgy. Kagumay	10.654163	124.867885	Waypoint 566 Flooding at Pagbanganan River, erosion of channel
Brgy. Kagumay	10.652221	124.86951	Waypoint 567 Slope face. NW Rotational slide, terracettes, slope failure due to undercutting of the slope, November 2017 box culvert, tension cracks along the road
Brgy. Kagumay	10.652233	124.869509	Tension cracks Waypoint 568
	10.651709	124.869632	Tension cracks Waypoint 569
	10.651775	124.869708	Tension cracks Waypoint 570
Brgy. Villa Magaso	10.699447	124.83330	Waypoint 572 Mudflow with seepage Crown height >5meters
Brgy. Villa Magaso	10.699238	124.83378	Waypoint 574 Slope face: S21E Rotational slide, with terracettes with dimensions. 70cm vertical displacement, 25m length
Brgy. Villa Magaso	10.700755	124.834844	Waypoint 575 Slope face: N27W Translational slide (reactivated), 15m wide, debris/mudslide with seepage, tension cracks
Brgy. Villa Magaso	10.700922	124.835420	Waypoint 576 Translational slide (reactivated), debris/mudslide, with seepage, tension cracks, undercutting of slope
Brgy. Villa Magaso	10.701082	124.8367381	Waypoint 577 High potential to fail
Brgy. Villa Magaso	10.701730	124.838668	Waypoint 578 Landslide along the river sheet flood
Brgy. Villa Magaso	10.702498	124.841526	Waypoint 579 Slope face: N80W

			Daylighting of beds. Rotational slide with 50 meter height, incl 7m scarp height, undercutting of slope, pipes for drinking water exploded due to soil saturation
Brgy. Villa Magaso	10.704076	124.839695	Waypoint 580 Slope face N80E to S30E Sito Hayas. Debris flow landslide body with 10m scarp height, 100m length, composed of mud and volcanic rocks
Brgy. Villa Magaso	10.703985	124.839173	Waypoint 581 Crown extent
Brgy. Villa Magaso	10.698123	124.832094	Waypoint 582 Tension crack at house
Brgy. Villa Magaso	10.698028	124.832166	Waypoint 583 Slope of tension crack facing S66E
Brgy. Villa Magaso	10.697459	124.832953	Waypoint 584 Slope face S71E Rotational slide (reactivated), undercutting of creek, scarp ~50m, tilting of trees
Brgy. Villa Magaso	10.696716	124.832066	Waypoint 585 reactivated historical (10 years ago) landslide, 5m crown
Brgy. Villa Magaso	10.696305	124.832448	Waypoint 586 Covered court
Brgy. Villa Magaso	10.695890	124.831634	Waypoint 587 Rotational slide with seepage, crown width 15-20m, extent of slide >50m from crown, bulging of toes/tilting of trees
Brgy. Villa Magaso	10.695954	124.831044	Waypoint 588 Landslide
Brgy. Villa Magaso	10.695683	124.830550	Waypoint 589 Landslide
Brgy. Bunga	10.784472	124.779305	Active Landslide Zone Slope Face: SE

Brgy. Kantagnos	10.673361	124.845861	Active Landslide Zone Slope Face: NW
Brgy. Can-Ipa	10.676472	124.815916	Active Landslide Zone Slope Face: N
Brgy. Gaas	10.663111	124.816555	Active Landslide Zone Debris Flow Direction: W
Brgy. Makinhas	10.637666	124.860416	Active Landslide Zone Slope Face: E
Brgy. Makinhas	10.637661	124.860222	Active Landslide Zone Slope Face: E
Brgy. Makinhas	10.642472	124.861027	Active Landslide Zone Slope Face: E Landslide at roadcut
Sitio Pamutosan, Brgy. Makinhas	10.645388	124.858111	Tension cracks no 3
Sitio Pamutosan, Brgy. Makinhas	10.644944	124.857972	Tension cracks no 4
Sitio Pamutosan, Brgy. Makinhas	10.644777	124.857944	Tension cracks no 5 Vertical Displacement: 1.2 meters Width: 1 meter
Sitio Pamutosan, Brgy. Makinhas	10.644500	124.857916	Tension cracks no 6
Sitio Pamutosan, Brgy. Makinhas	10.644444	124.857750	Tension cracks no 7 Vertical Displacement: 1.85 meters Width: 0.96 meter
Sitio Pamutosan, Brgy. Makinhas	10.644444	124.857333	Tension cracks no 8 Vertical Displacement: 1 meter Width: 0.96 meter
Sitio Pamutosan, Brgy. Makinhas	10.644000	124.857166	Tension cracks no 9
Sitio Pamutosan, Brgy. Makinhas	10.645194	124.856666	Tension cracks no 10
Sitio Pamutosan, Brgy. Makinhas	10.645388	124.856444	Terracettes
Sitio Pamutosan	10.645833	124.856472	Pond

Sitio Pamutosan Brgy Makinhas	10.646027	124.856777	Tension cracks (water infilled)
Sitio Pamutosan Brgy Makinhas	10.646750	124.856833	Damaged house Amalia Tobise
Sitio Pamutosan Brgy Makinhas	10.646222	124.855833	Eroded cut slope materials (roadcut)
Brgy Maypatag	10.59833	124.8722	Tension crack Slope face NW
Brgy Maypatag	10.58636	124.8439	Active Landslide Zone

- From the City of Tacloban, Baybay City is approximately 100 kilometers south and can be accessed via the Eastern Nautical Highway/ Pan-Philippine Highway/ AH26/ Tacloban - Baybay S Rd and turning right onto Tacloban-Baybay S Rd (roughly 2 hour and 9 minutes of travel time)
- The findings and observations for the flood-affected, landslide-affected or landslide-prone areas are tabulated in **Table 2** below.

Table 2. Findings and Observations of Landslide areas in the City of Baybay, Province of Leyte

SITE	FINDINGS AND OBSERVATIONS
Brgy. Kagumay, Baybay City	<p>The landslides observed in Brgy. Kagumay are located along the river. The landslides can be characterized as debris flows, with the debris consisting mainly of soil material.</p> <p>The landslides occurred during the onslaught of Tropical Cyclone "Agaton" which brought heavy rainfall to the area.</p> <p>Based on anecdotal records, the creek flowing through the barangay was partially blocked with material consisting of soil, debris, and uprooted plants and trees, during the typhoon. Eventually, damming in the upstream portion of the tributary of the Pagbanganan River failed, and caused the debris and mudflow in the barangay.</p> <p>During the assessment, landslides were observed along the slopes of the tributary, which runs downstream toward the barangay proper</p> <p>Due to undercutting of the slopes because of the flood, a landslide occurred upstream of the barangay (Photo 1). It narrowed down the channel due to its extent and material. Its crown is located approximately greater than 100m to its toe. The material consists of soil, debris, and uprooted plants and</p>

	<p>The flood also damaged a portion of the fence (Photo 3) of the school and the riprap (Photo 4) that served as flood control and. Flood flowed towards Pagbanganan River across the barangay proper, and left behind debris and mud. Pagbanganan River is also scouring the riverbank of the barangay.</p>
<p>Brgy. Villa Mag-aso, Baybay City</p>	<p>The landslides observed in Brgy. Villa Mag-aso are located along the roadcuts on the barangay road as well as along the Hayas river. The landslides can be characterized as debris slides, with the debris consisting mainly of soil material.</p> <p>The landslides occurred during the onslaught of Tropical Cyclone "Agaton" which brought heavy rainfall to the area. Based on anecdotal records, most of the landslides are reactivated.</p> <p>During the assessment, it was observed that the underlying material is still highly saturated. Seepages were also observed. Tension cracks and other indications of impending landslides were also observed in the barangay. Undercutting of road foundations may cause damage to the main access road and lead to inaccessibility</p>
<p>Sitio Tinago, Brgy. Mailhi, Baybay City</p>	<p>The landslides in Sitio Tinago are located along the western flanks of the Leyte Central Highlands. The slopes in Sitio Tinago have been developed into topographic depression, resembling an amphitheater. In the terrain map, the amphitheater is the semicircular-shaped escarpment at the upgradient of a slope (Photo 27 and 28). The yellow circles indicate the waypoints, and the red arrows indicate the slope face of the landslide crowns. Based on the orientation of the slope faces, escarpments are following the topographic relief of the amphitheater.</p> <p>According to residents, landslides have already occurred along these slopes. These historical escarpments, which occur as brown patches near the vicinity of waypoints 7, 18, 19 and 20, can be observed on the satellite images in 2016 and 2019 (Photo 29). In 2021, the slopes have been re-vegetated (Photo 30).</p> <p>Active landslide features such as terracettes, tension cracks, hummocks, back tilt trees were noted in the sitio. The tension cracks in the sitio were observed during the onslaught of the Tropical Cyclone "Agaton". The location map of the field assessment conducted during April 19, 2022, is shown in Photo 32.</p> <p>At the northeast portion of the Sitio, several tension cracks (southwest-trending) were horizontally displaced at 30 to 80 cm. The largest observed was an approximate 10-meter-long</p>

Brgy. Can-ipa, Baybay City	Landslide located on the hill meters away from proper that covered the houses within foot slopes with debris during Tropical Cyclone "Agaton".
Brgy. Gaas, Baybay City	A reactivated landslide occurred during the Tropical Cyclone "Agaton". The landslide is located at Sitio Awan. Access road and some structures located nearby are covered with debris.
Brgy. Maypatag, Baybay City	Active Landslide occurred during Tropical Cyclone "Agaton" with debris consisting of mud flow towards Sitio Hunob covering 2 houses and an access road going to Barangay Amguhan. Approximately 500 meters away from the Barangay Proper, a tension crack of 100 meters was noticed by the team. It is located on the upslope with a measurement of 43 centimeters width and 70 centimeters depth.
Brgy. Makinhas, Baybay City	Couple of small landslides are observed on the upslope located at the back of the Catholic Chapel. The debris of landslide consist of soil and rocks. Also landslides with seepages are observed on the steep roadcuts going to the barangay proper. On the upslope, south portion of Sitio Pamutosan, the tension cracks observed lies an immediate hazard to the community situated right across the Tacloban-Baybay South Road. These tension cracks are having a vertical displacement ranging 1 to 1.8 meters and a width ranging 0.2 to 1 meter. According to the residents, they have observed more of these tension cracks located in the upper portion of the area. On the course of the trail, ponding of water and terracettes are noticed. These are cracks that resemble a stair-like feature. The observed terracettes indicate that the soil in the area is highly saturated which might cause landslides.

IV. CONCLUSIONS AND RECOMMENDATIONS

Based on the field assessment, the hazard susceptibility ratings for the assessed sites, as well as the recommendations, are tabulated in Table 3 below.

Table 3 Hazard susceptibility ratings and recommendations for the assessed sites.

SITE	HAZARD SUSCEPTIBILITY RATING AND RECOMMENDATIONS
Barangay Mailhi, Baybay City	Due to the excessive rainfall that triggered landslide during the Tropical Cyclone "Agaton". Sitio Waterfall is now classified as having Very High Susceptibility to Landslide . Based on the observed rotational slides and mudflows, Sitio Tinago is now classified as Debris Flow Path/ Possible Accumulation Zone with a Very High Susceptibility to Landslide .
Brgy. Kagumay, Baybay City	Current geohazard map classified the site as having Moderate

	<p>barangay is re-classified as a Debris flow path and accumulation zone, the slopes of the tributary having Very High Landslide Susceptibility Rating, and the tributary and Pagbanganan River High Flood Susceptibility Rating.</p> <p>Periodic cleaning along the tributary is recommended due to its susceptibility to damming. This subsequently causes flooding within the vicinity. Appropriate engineering mitigating measures should be implemented along Pagbanganan River and its tributary. Baybay-LGU/residents may opt to return, but strict implementation of pre-emptive evacuation should be mandatory during inclement weather condition. However evacuation centers should not be established within this zone. The barangay should coordinate with Baybay City LGU and/or adjacent barangays for safe evacuation.</p>
Brgy. Villa Mag-aso, Baybay City	<p>Current geohazard map classified the site as having Moderate Landslide Susceptibility Rating. Due to the recent landslide events, the barangay should be re-classified as having Very High Landslide Susceptibility Rating.</p> <p>Engineering mitigating measures should implemented along the roadcuts, and should also consider residents situated directly downslope of the site.</p> <p>With the threats of both landslide and flooding, Sitios Ban-utod and Hayas, must be immediately relocated.</p>
Brgy. Bunga, Baybay City	<p>Based on the current geohazard map, the susceptibility ratings at the location of the recent landslide is having Moderate and High Susceptibility to Landslide. With the onslaught of Tropical Cyclone "Agaton" it is now re-classified as having Very High Landslide Susceptibility Rating. Because of this, it is not suitable for human settlement.</p>
Brgy. Kantagnos, Baybay City	<p>The excessive rainfall brought by Tropical Cyclone "Agaton" causing the soil highly saturated that resulted to landslide on the upslope. The susceptibility ratings for Barangay Kantagnos from Low and Moderate Landslide Susceptibility will advance to Very High Landslide Susceptibility Rating. The area is not safe for human settlement.</p>
Brgy. Can-IPA, Baybay City	<p>The current Susceptibility Rating for Landslide is Moderate. Due to the recent events, it is re-classified as having Very High Landslide Susceptibility Rating. Dwelling is prohibited in this zone.</p>
Brgy. Gaas, Baybay City	<p>Current geohazard map classified Sitio Awan as having Moderate Landslide Susceptibility Rating. Due to the recent landslide events, it is re-classified as having Very High Landslide Susceptibility Rating.</p> <p>Engineering mitigating measures should be implemented on the site.</p>
Brgy. Maypatag, Baybay City	<p>Based on the recent events, Sitio Hunob of the barangay is being re-classified from Moderate Landslide Susceptibility Rating to Very High Landslide Susceptibility Rating, with the debris path areas being re-classified as having Debris Flow.</p>

	<p>Path and Accumulation Zone with Very High Landslide Susceptibility Rating.</p> <p>The susceptibility rating for Proper Makinhas will be retained to Moderate Landslide Susceptibility, due to its moderately steep slopes, tilted trees and tension crack. Although there is a possibility of landslide occurrence, residents situated downslope of the tension crack must move-into safer areas within the barangay, and application and/or installation of appropriate engineering measures at the vacated areas to mitigate the risk of impending hazard which might affect barangay proper.</p>
Brgy. Makinhas, Baybay City	<p>Based on the titling of trees, tension cracks and terracettes observed, Sitio Pamutosan is now classified as Debris Flow Path / Possible Accumulation Zone with a Very High Susceptibility to Landslide Rating.</p> <p>Residents situated within the area must be relocated.</p> <p>Residents of Proper Makinhas must be vigilant especially during typhoons or inclement weather conditions. Residents and barangay officials must report to CDRMO for any manifestations of landslide or if there are signs of progress to those marked landslide areas. Also, residents of Makinhas must follow pre-emptive evacuation in times of disaster or inclement weather condition.</p>

Apart from the recommendations stated in Table 3, the following recommendations must also be considered:

1. Strict compliance with the **Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01 (Table 5).**

Table 4. Hazard Zone Classifications and Recommended Actions per Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01.

LANDSLIDE	
Very high landslide susceptibility (VHL)	<p>Dwelling should not be allowed. Critical facilities may be allowed provided that appropriate engineering intervention measures are implemented with continuous monitoring.</p> <p>Evacuation centers should not be established in this zone.</p> <p>Landslide warning signages should be installed in this zone.</p>
High landslide susceptibility (HL)	
Debris flow / Possible accumulation zone (DF)	
FLOOD	
Very high flood susceptibility	<p>During impending flood events, all people except disaster personnel should not be in this zone.</p> <p>Evacuation centers should not be</p>
High flood susceptibility	

	<p>Floodplains should be used as retention basins to accommodate swelling of rivers. These places may be transformed into recreational areas, such as parks, etc., provided possible flood heights are considered in the design.</p> <p>Appropriate flood control mitigation structures, i.e., dikes, revetments, spur dikes, detention tanks, may be recommended and approved by DPWH. Recommended as not suitable for commercial, industrial, residential (subdivisions), and institutional developments.</p> <p>Flood warning signages should be installed in this zone.</p>
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- 2 The susceptible ratings for landslide in those assessed barangays were derived during the previous geohazards assessment in Baybay City (2016). Since these are barangays devastated during the Tropical Cyclone "Agaton", the ratings for the landslide susceptibility of the barangays will advance from **Moderate and High Landslide Susceptibility** to **Very High/Critical Landslide Susceptibility Rating**.
- 3 The amount of rainfall during the Tropical Depression "Agaton" exceeds the normal rain accumulated, making the soil saturated that triggered landslides. It is deemed necessary to relocate the residents situated along/on highly susceptible areas for landslides;
- 4 City Disaster Risk Reduction Management Office should conduct monitoring to the areas with manifestations of mass wasting for possible development of the said hazard;
- 5 For sites proximate to residential areas, exercise mandatory evacuation during inclement weather conditions.
- 6 Identify the safe evacuation areas within the barangay. Coordinate with the City Disaster Risk Reduction and Management Office (CDRRMO) for safe evacuation;
- 7 Provision of adequate drainage system;

8. Constant communication and updates with barangay officials and CDRRMO on geohazards situation, weather forecasting, early warning systems, and emergency plans.
9. Discourage the residents from constructing houses along prohibited buffer and hazard zones. Houses and other buildings along buffer zones should be relocated. Please Refer to RA No.386 (Civil Code of the Philippines), PD 1067 (Water Code), PD 1096 (National Building Code of the Philippines), PD 705 (Forestry Code) and Joint Memorandum Circular 2014-01.
10. Observe and/or monitor for presence of mass movement (e.g. landslides, tension cracks). Report situation to MGB RO-VIII.
11. Observe for sunken or displaced road surfaces. Report situation to the MGB RO-VIII.
12. The specifications in the Presidential Decree No. 1096 National Building Code must be strictly followed and modified if necessary, based on recent events such as Typhoon Yolanda and occurrences of earthquakes in the Visayas area.
13. Other concerns outside the function of this office must be cleared with the concerned agencies

Prepared by:


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Geologist II

Noted by


CELESTINA U. CARRANZA
Chief, Geoscience Division



Excerpts from the

Minutes of the 6th Regular Session of the Sangguniang Panlungsod, conducted at the Session Hall, New City Hall Building, Diversion Road, Barangay Gaas, Baybay City held on February 9, 2023.

RESOLUTION NO. 2023 – 160

A RESOLUTION EARNESTLY REQUESTING THE DEPARTMENT OF EDUCATION, THROUGH ITS SECRETARY VICE PRESIDENT SARA Z. DUTERTE, THE CONSTRUCTION OF FOURTEEN (14) PERMANENT CLASSROOMS, IN THE RELOCATION SITES DEVELOPED BY THE LGU OF THE CITY OF BAYBAY, FOR THE 218 ELEMENTARY PUPILS AND 328 HIGH SCHOOL STUDENTS OF BGY. KANTAGNOS AND BGY. MAILHI, BAYBAY CITY, LEYTE WHO WERE DISPLACED BY THE LANDSLIDES DURING TYPHOON AGATON ON APRIL 10, 2022

WHEREAS, the landslides during Typhoon Agaton on April 10, 2022, took a total of 155 lives and caused widespread damage to properties in Bgy. Kantagnos and Bgy. Mailhi of the City of Baybay, Leyte;

WHEREAS, the landslides and subsequent declaration of the Bgy. Kantagnos and Bgy. Mailhi as "Danger Zones"/non-habitable displaced a total of 330 families including 218 elementary school pupils and 328 high school students who could not return to their former schools due to the destruction their school buildings sustained from the landslides and subsequent declaration of these barangays as "Danger Zones";

WHEREAS, for almost two years now, DepEd Baybay City Division were forced to hold classes for these displaced school children in nearby barangays' gymnasiums and barangay halls. Elementary school children of Brgy. Kantagnos are even holding classes in the house of the barangay captain of Brgy. Maganhan (where they are relocated) for lack of barangay facilities to accommodate them;

WHEREAS, the situation where these pupils and students are holding classes are far from being conducive to learning due to congestion, lack of effective sound barriers (with light material divisions) of one class to another, absence of side walls, leaking of some roof spans of the gym and lack of toilets;

WHEREAS, the situation is so dire for the displaced students/pupils that if left unaddressed, will have a negative effects on their educational and personal developments in both short-term and long-term;

WHEREAS, some of the displaced families are now relocated while most will be relocated by the end of the month in relocation sites developed by the LGU of the City of Baybay and development partners;

WHEREAS, these relocation sites urgently need the school facilities for the displaced pupils and students;


WHEREFORE, on motion of SP Member Jose L. Bacusmo and unanimously seconded;

BE IT RESOLVED AS IT IS HEREBY RESOLVED, for the City of Baybay, Leyte to earnestly request the Department of Education, through its Secretary Vice President Sara Z. Duterte, the construction of 14 permanent classrooms, in the relocation sites developed by the City Government, for the 218 elementary pupils and 328 high school students of Bgy. Kantagnos and Bgy. Mailhi of the City of Baybay who were displaced by the landslides during Typhoon Agaton on April 10, 2022;

RESOLVED FURTHER to provide a copy of this approved resolution to Mayor Lucy Torres Gomez, Chairperson of Regional Development Council of Eastern Visayas, and to Evelyn R. Fetalvero, PhD, CESO IV, Regional Director, Department of Education of Region 8 for their appropriate actions.

UNANIMOUSLY APPROVED this 9th day of February, 2023

I HEREBY CERTIFY to the correctness of the foregoing resolution that was duly adopted during the regular session of the Sangguniang Panlungsod held on February 9, 2023.


ATTY. VIVIANE E. VIDALLON
Secretary to the Sanggunian

ATTESTED:


ATTY. ERNESTO M. BUTAWAN
City Vice Mayor - Presiding Officer

APPROVED:


ENGR. JOSE CARLOS L. CARI
City Mayor

CERTIFIED COPY

ATTY. VIVIANE E. VIDALLON
DATE: _____

VIDALLON