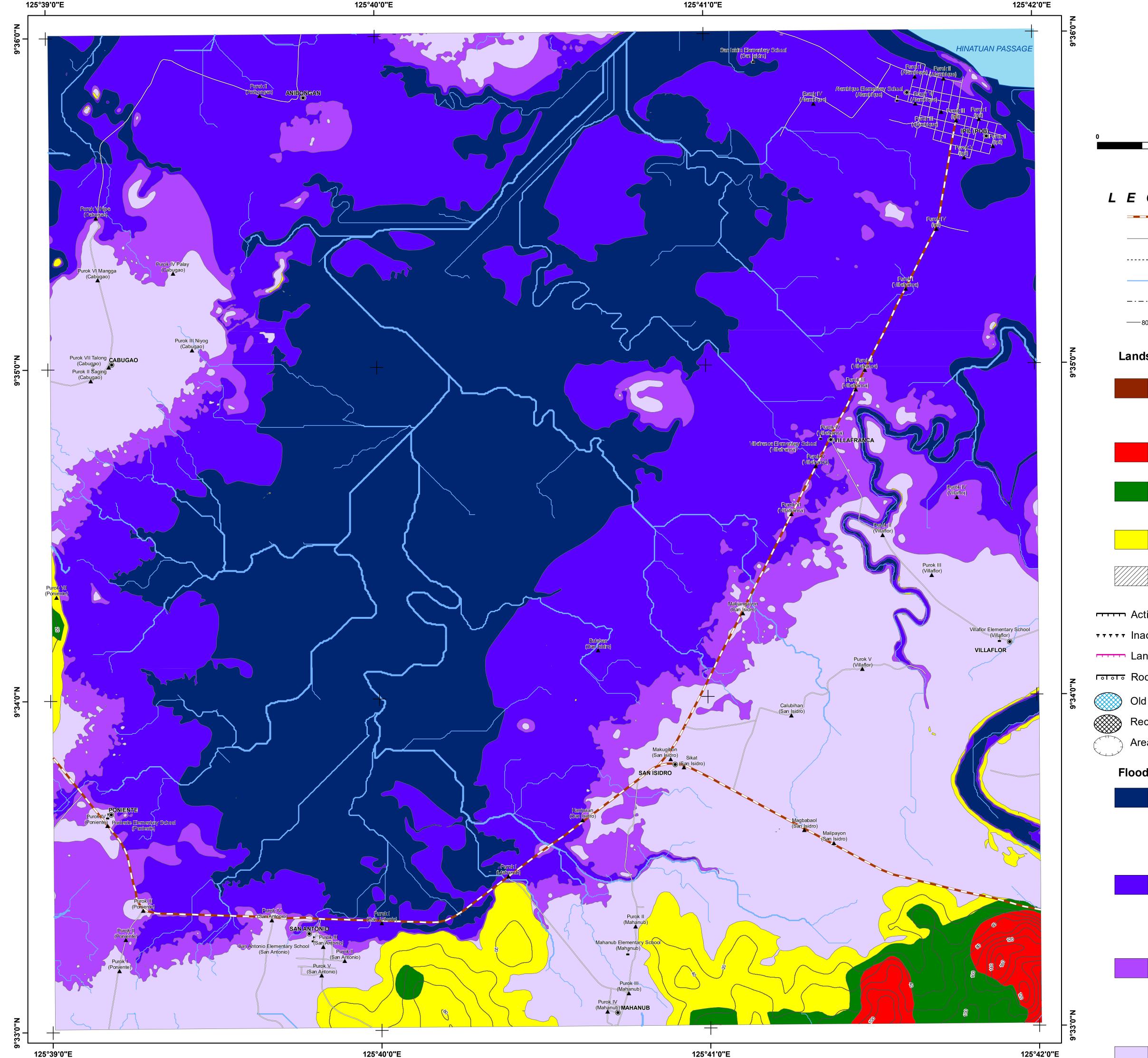


# DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF **GIGAQUIT, BACUAG AND CLAVER, SURIGAO DEL NORTE, PHILIPPINES 4120-III-19 PONIENTE QUADRANGLE**

125°40'0"E





DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES **MINES AND GEOSCIENCES BUREAU** North Avenue, Diliman, Quezon City

**Data Sources :** 

ALL RIGHTS RESERVED **PUBLISHED DECEMBER 2015**  GIS Processing :

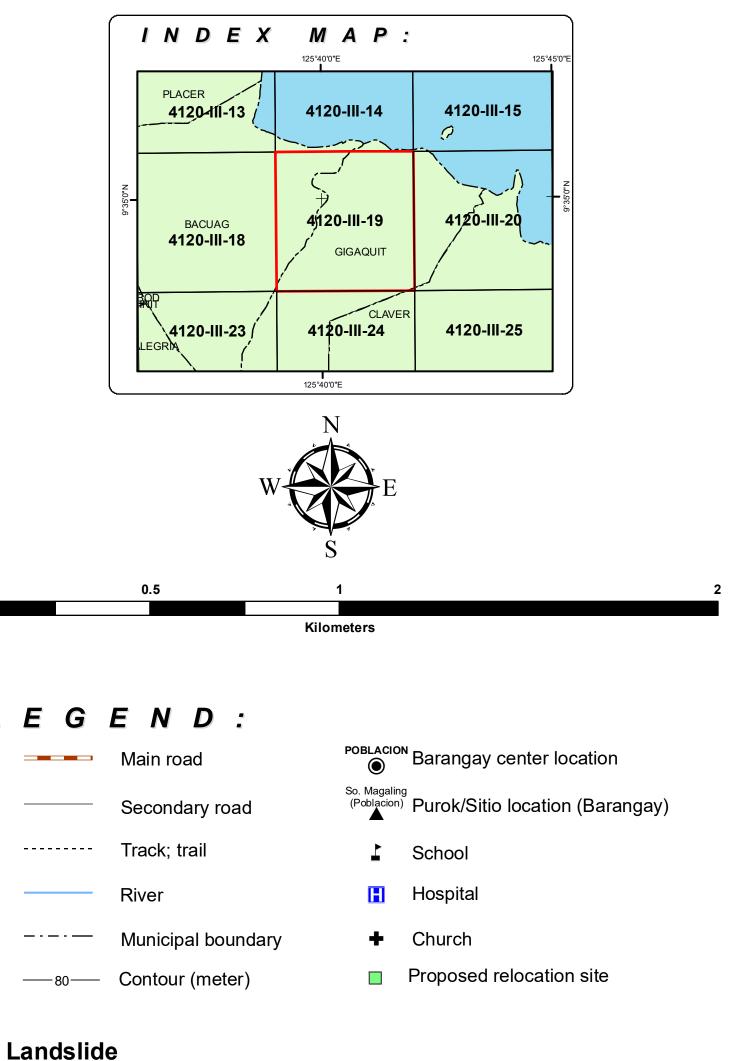
125°41'0"E

MGB Geohazard Assessment Team Lands Geological Survey Division Geosciences Division MGB Regional Office XIII National Mapping and Resource Information Authority

# Coordinate System :

Spheroid :.... Clark 1866 Datum :..... Luzon 1911

Mapping scale 1:10,000



	Very high landslide susceptib
	Areas usually with steep to very weak materials. Recent landslid cracks are present. Human initia aggravating factor.
	High landslide susceptibility
	Areas usually with steep to very weak materials. Areas with num
	Moderate landslide susceptib
	Areas with moderately steep slo indications of possible landslide
	Low landslide susceptibility
	Gently sloping areas with no ide
	Debris flow / Possible accumu
	Areas that could be affected by
A 11	

eep to very steep slopes and underlain by cent landslides, escarpments and tension Human initiated effects could be an

susceptibility

	Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.
	Moderate landslide susceptibility
-	Areas with moderately steep slopes. Soil creep and other indications of possible landslide occurrence are present.
	Low landslide susceptibility
	Gently sloping areas with no identified landslide.
	Debris flow / Possible accumulation zone
	Areas that could be affected by landslide debris.
tive	andslide

Tension crack ידידי Inactive landslide Landslide area with mitigating measure  $\rightarrow \rightarrow \rightarrow$  Gully **Fototo** Rock fall/Rock slide prone area **Riverbank erosion** 

- Old landslide deposits
- Recent landslide deposits

Areas susceptible to ground subsidence/sinkhole development

## Flood

## Very high flood susceptibility

Areas likely to experience flood heights of greater than 2 meters and/or flood duration of more than 3 days. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and area along river banks; also prone to flashfloods.

## High flood susceptibility

Areas likely to experience flood heights of greater than 1 up to 2 meters and/or flood duration of more than 3 days. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and area along river banks; also prone to flashfloods.

## Moderate flood susceptibility

Areas likely to experience flood heights of greater than 0.5m up to 1 meter and/or flood duration of 1 to 3 days. These areas are subject to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.

#### Low flood susceptibility

Areas likely to experience flood heights of 0.5 meter or less and/or flood duration of less than 1 day. These areas include low hills and gentle slopes. They also have sparse to moderate drainage density.

#### Direction of rising floodwater Direction of receding floodwater



 $\overset{1.2}{\otimes}$  Flood depth (meter)

Flashflood exit point