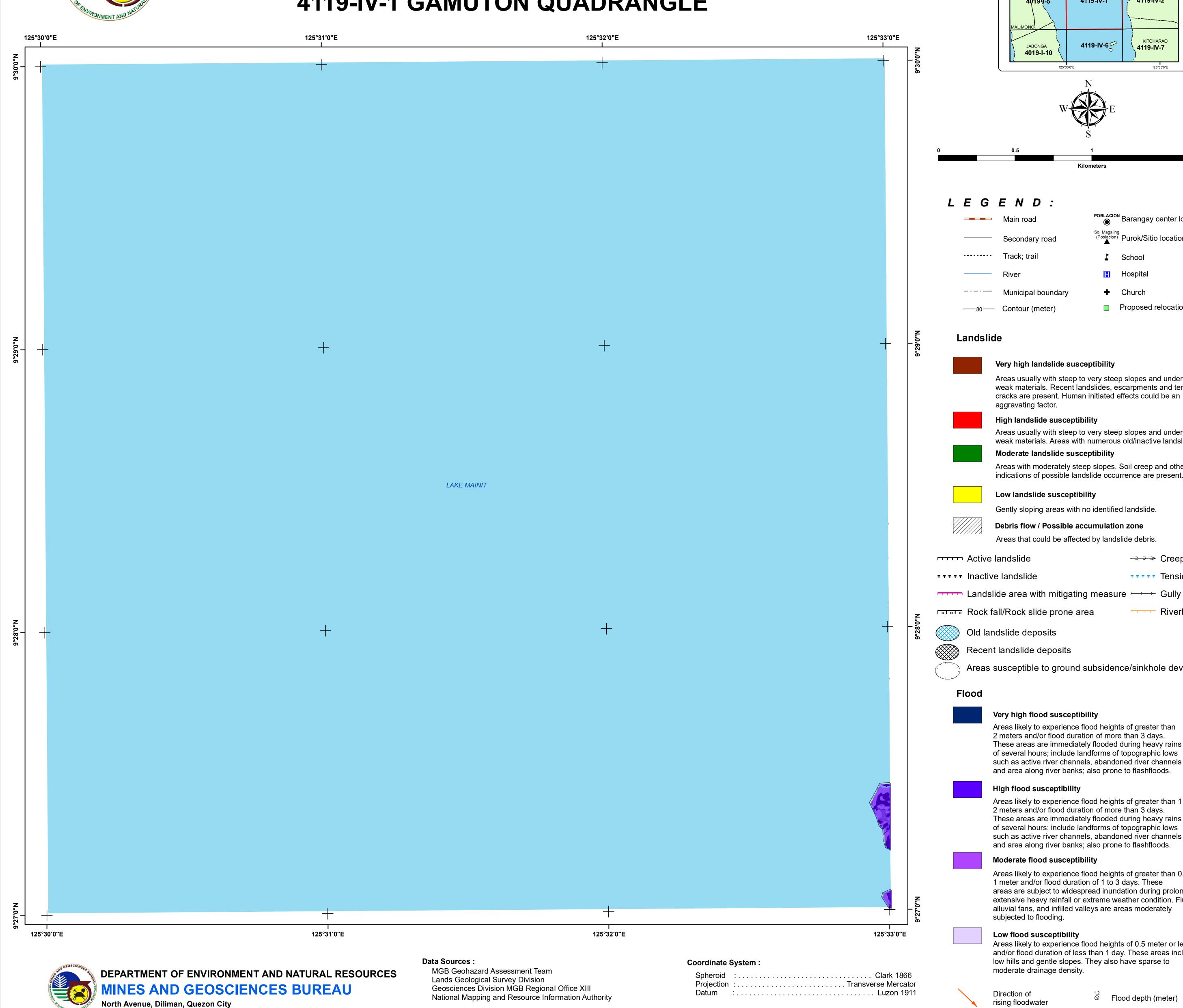


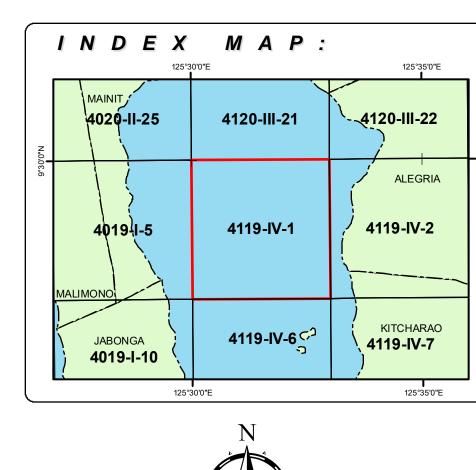
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## DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF ALEGRIA, SURIGAO DEL NORTE, PHILIPPINES 4119-IV-1 GAMUTON QUADRANGLE



**GIS Processing:** 

Lands Geological Survey Division





POBLACION Barangay center location So. Magaling (Poblacion) Purok/Sitio location (Barangay)

Proposed relocation site

## Very high landslide susceptibility

Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an

Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Areas with moderately steep slopes. Soil creep and other indications of possible landslide occurrence are present.

Gently sloping areas with no identified landslide.

Debris flow / Possible accumulation zone

-→->-> Creep Tension crack

Riverbank erosion

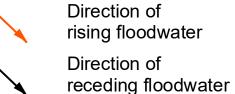
Areas susceptible to ground subsidence/sinkhole development

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.

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.

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

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



Mapping scale 1:10,000

<sup>1.2</sup> ⊗ Flood depth (meter) Flashflood exit point