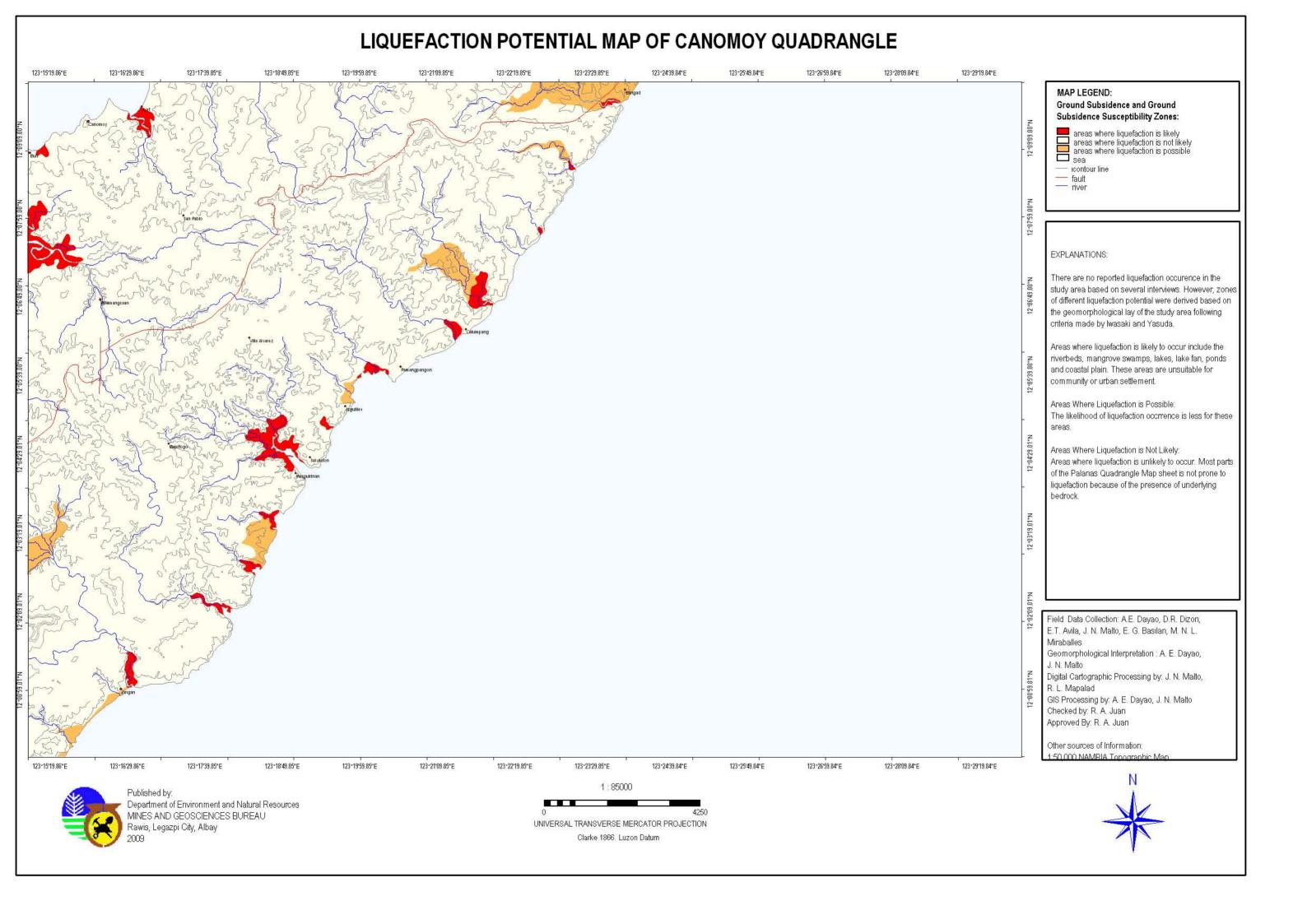


GROUND SETTLEMENT SUSCEPTIBILITY MAP OF CANOMOY QUADRANGLE 123°15'19.86"E 123*16'29.86"E 123°18'49.85"E 123°19'59.85"E 123°22'19.85"E 123°23'29.85"E 123°24'39.84"E 123°25'49.84"E 123°29'19.84"E MAP LEGEND: **Ground Subsidence and Ground** Subsidence Susceptibility Zones: areas susceptible to ground settlement areas not susceptible to ground settlement sea — contour line - river EXPLANATIONS: Susceptibility map for ground subsidence due to karst or solution processess was primarily derived from the lithologic map of the study area. Field observations on ground subsidence observed on concrete roads and damaged houses supported the mapping. Areas of possible ground ssettlement were delineated through the analysis of the geomorphological lay of the study area, the sub-surface soils and the ground water levels. Areas Susceptible to Ground Subsidence: Areas that are prone to ground cavitation, sinkhole formation and ground subsidence in areas underlain by limestone and calcareous siltstones and shales. Areas Susceptible to Ground Settlement: Areas where fluviatile sands, silts and clays coupled with shallow ground water table are silts of possible ground settlement. Ground settlement may be reduced through appropriate foundation design, buildings having 3 storeys or more should be tested for settlement and/or consolidation. Buildings having 5 storeys or more should undergo detailed geothechnical studies. Areas Not Susceptible to Ground Settlement or Ground Areas where the possibility of ground settlement or ground subsidence is low or absent. Field Data Collection: A.E. Dayao, D.R. Dizon, E.T. Avila, J. N. Malto, E. G. Basilan, M. N. L. Miraballes Geomorphological Interpretation: A. E. Dayao, J. N. Malto Digital Cartographic Processing by: J. N. Malto, R. L. Mapalad GIS Processing by: A. E. Dayao, J. N. Malto Checked by: R. A. Juan Approved By: R. A. Juan Other sources of Information: 123*15'19.86"E 123*17'39.85"E 123°18'49.85"E 123°19'59.85"E 123°21'09.85"E 123°22'19.85"E 123°23'29.85"E 123°24'39.84"E 123°26'59.84"E 123°28'09.84"E 123°29'19.84"E 1:85000 Published by: Department of Environment and Natural Resources MINES AND GEOSCIENCES BUREAU UNIVERSAL TRANSVERSE MERCATOR PROJECTION Rawis, Legazpi City, Albay Clarke 1866, Luzon Datum



LANDSLIDE SUSCEPTIBILITY MAP OF CANOMOY QUADRANGLE 123°15'19.86"E 123*16'29.86"E 123°18'49.85"E 123°19'59.85"E 123*22'19.85"E 123°23'29.85"E 123°24'39.84"E 123°25'49.84"E 123°26'59.84"E 123°28'09.84"E 123°29'19.84"E MAP LEGEND: Landslide Susceptibility Zones: high susceptibility moderate susceptibility low to absent absent - contour line - fault EXPLANATIONS: Landslide hazard susceptibility zones were derived through qualitative map combination using lithology geomorphology, slope gradient, road distance and fault distance. GIS was used in the map combination and subjective weights were assigned to each unit in the parameter map. Areas with High Susceptibility to Landslides: Areas with equally high probability of occurrence of mass movements particularly rock slides, debris slides and areas along fault lines are rated high susceptibility areas and are unsuitable for housing development and human settlement. Areas with Moderate Susceptibility to Landslides: Areas having moderate likelihood to landslide occurrence and are recommended for more detailed engineering geological and geohazard assessment prior to housing development. Areas with Low Susceptibility to Landslides: Areas where the occurence of landslides is low. Areas where the likelihood of landslide occurrence is absent. Field Data Collection: A.E. Dayao, D.R. Dizon, E.T. Avila, J. N. Malto, E. G. Basilan, M. N. L. Miraballes Geomorphological Interpretation : A. E. Dayao, J. N. Malto Digital Cartographic Processing by: J. N. Malto, R. L. Mapalad GIS Processing by: A. E. Dayao, J. N. Malto Checked by: R. A. Juan Approved By: R. A. Juan Other sources of Information: 123°15'19.86"E 123*16'29.86"E 123*17'39.85"E 123°18'49.85"E 123°19'59.85"E 123°21'09.85"E 123°22'19.85"E 123°23'29.85"E 123°24'39.84"E 123°26'59.84"E 123°28'09.84"E 123°29'19.84"E 1:85000 Published by: Department of Environment and Natural Resources MINES AND GEOSCIENCES BUREAU UNIVERSAL TRANSVERSE MERCATOR PROJECTION Rawis, Legazpi City, Albay Clarke 1866, Luzon Datum