

**TABULATED GEOHAZARD SUSCEPTIBILITY ASSESSMENT OF THE BARANGAY CENTERS WITHIN THE MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**

BRGY	MUNICIPALITY	LONGITUDE	LATITUDE	LANDSLIDE SUSCEPTIBILITY RATING	FLOOD SUSCEPTIBILITY RATING	LANDSLIDE REMARKS/RECOMMENDATIONS	FLOOD REMARKS/RECOMMENDATIONS	AS OF	ASSESSED BY/DATA SOURCE
Bagalupa	LABANGAN	123.373278	7.915833	none to low (gentle slope; floodplain; brgy. center); moderate to high (steep ridge slopes, gully/valley sides; riverbank; roadcuts)	high (flashflood/sheet within the river and low lying floodplain near the brgy. center)	The build-up zone is situated within the floodplain zone of Labangan River; Landslide occurs within the steep ridge slopes away from the barangay center; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides/roadcuts; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for floodhazard related hazard prevention/mitigation.	2006	MGB-RO
Balimbingan (West Luya)	LABANGAN	123.532444	7.882195	none to low (floodplain; brgy. center); high (steep ridge slopes, gully/valley sides; riverbank)	high (flashflood/sheet within the river and low lying floodplain near the brgy. center)	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides/roadcuts; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for floodhazard related hazard prevention/mitigation; Identify evacuation and/or relocation site.	2006	MGB-RO

Binayan	LABANGAN	123.400694	7.926750	none to low (floodplain; brgy. center); high (steep ridge slopes, gully/valley sides; riverbank)	high (flashflood/sheet within the river and low lying floodplain near the brgy. center)	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides/roadcuts; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for floodhazard related hazard prevention/mitigation; Identify evacuation and/or relocation site.	2006	MGB-RO
Bokong	LABANGAN	123.460194	7.910667	none to low (floodplain; brgy. center); high (steep ridge slopes, gully/valley sides; riverbank)	low (barangay center); moderate to high (flashflood/sheet within the Labangan River and its low lying floodplain zone)	The barangay center is situated at the foot of a steeply sloping ridge; Possible landslide accumulation zone; There were identified active landslide escarpment along steep slopes, north of the barangay; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides; Limit/avoid the constructing residential /infrastructure projects directly along the foot of the steep slope; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for floodhazard related hazard prevention/mitigation; Identify evacuation and/or relocation site.	2006	MGB-RO

Bulanit	LABANGAN	123.482544	7.847649	none	moderate to high (sheetflood within floodplain;ricefield; brgy. center)	Activate Barangay Disaster Coordinating Council (BDCC).	The barangay proper is situated within the vast low lying floodplain/alluvial plain between Tawagan River and Labangan River; Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content for both river systems; Develop early warning system/signal for flood related hazard prevention/mitigation; Identify evacuation and/or relocation site.	2006	MGB-RO
Cogonan	LABANGAN	123.308566	7.961421	moderate (brgy. center; gentle foot slopes); high (steep ridge slopes, gully/valley sides; riverbank)	high (flashflood/sheet within the river and low lying narrow floodplain)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides/roadcuts;develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flashflood related hazard prevention/mitigation;	2006	MGB-RO
Dalapang	LABANGAN	123.490628	7.860594	none (floodplain; brgy. center); high (channel erosion of Labangan River)	high	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Activate Barangay Disaster Coordinating Council (BDCC); Avoid/limit construction of houses near the river channels).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation site.	2006	MGB-RO

Dipaya	LABANGAN	123.434306	7.923528	none to low (floodplain; brgy. center); high (steep ridge slopes, gully/valley sides; riverbank)	high (flashflood/sheet within the river and low lying floodplain near the brgy. center)	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides/roadcuts;develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for floodhazard related hazard prevention/mitigation; Identify evacuation and/or relocation site.	2006	MGB-RO
Langapod	LABANGAN	123.356556	7.914499	none to low (floodplain; brgy. center); moderate to high (steep ridge slopes, gully/valley sides; riverbank)	high (flashflood/sheet within the river and low lying floodplain near the brgy. center)	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides/roadcuts;develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for floodhazard related hazard prevention/mitigation; Identify evacuation and/or relocation site.	2006	MGB-RO

Lantian	LABANGAN	123.498399	7.883289	none to low (brgy. proper)	moderate to high (flashflood/sheetflood within low lying floodplain zone near rivers/creeks; ricefield zone)	Observe and presence of mass movement (soil creep); Activate Barangay Disaster Coordinating Council (BDCC)	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation site.	2006	MGB-RO
Lower Campo Islam (Pob.)	LABANGAN	123.514016	7.864761	none (floodplain; brgy. center); high (channel erosion of river channels)	moderate to high	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Activate Barangay Disaster Coordinating Council (BDCC); Avoid/limit construction of houses near the river channels).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation site.	2006	MGB-RO
Lower Pulacan	LABANGAN	123.486960	7.904710	none to low (alluvial plain; flood plain; gentle hill); high (riverbanks)	low to moderate (sheetflood/flashflood within low lying floodplain/alluvial plain near rivers/creeks; ricefield area)	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Activate Barangay Disaster Coordinating Council (BDCC); Avoid/limit construction of houses near the river/creek channels.	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation site.	2006	MGB-RO

New Labangan	LABANGAN	123.496324	7.863311	none (floodplain; brgy. center); high (channel erosion of Labangan River)	high	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Activate Barangay Disaster Coordinating Council (BDCC); Avoid/limit construction of houses near the river channels).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation site.	2006	MGB-RO
Nuboran	LABANGAN	123.324000	7.912250	none to low (floodplain; brgy. center); moderate to high (steep ridge slopes, gully/valley sides; riverbank; roadcuts)	high (flashflood/sheet within the river and low lying floodplain near the brgy. center)	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes/valley sides/roadcuts; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation.	2006	MGB-RO

Old Labangan	LABANGAN	123.512900	7.839665	none	high (floodplain; coastal areas)		The build-up zone is within the floodplain/coastal plain along Pagadian Bay; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Observe for sea water swell attributed to storm surge/tsunami; Identify relocation site; Develop early warning system/signal for flashflood/sheetflood and coastal-related hazard prevention/mitigation.	2006	MGB-RO
San Isidro	LABANGAN	123.509436	7.894051	none to low (brgy. center); moderate (ridge slopes and gully sides)	low to moderate (ricefield/floodplain zone near Lantian Creek)	Observe for and/or monitor for and presence/progress of mass movement (soil creep; tension cracks); Activate Barangay Disaster Coordinating Council (BDCC)	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content;	2006	MGB-RO
Santa Cruz	LABANGAN	123.461453	7.900846	none to low (floodplain and gentle hill); high (steep ridge slopes; riverbanks)	none to low (gentle elevated slopes); moderate to high (flashflood/sheetflood within Labangan River floodplain)	Observe for and/or monitor for and presence/progress of mass movement (soil creep; tension cracks; riverbank scouring); Activate Barangay Disaster Coordinating Council (BDCC)	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation/relocation site.	2006	MGB-RO

Tapodoc	LABANGAN	123.501426	7.858692	none (floodplain; brgy. center); high (channel erosion of Labangan River)	high	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Activate Barangay Disaster Coordinating Council (BDCC); Avoid/limit construction of houses near the unprotected river channels.	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation/relocation site.	2006	MGB-RO
Tawagan Norte	LABANGAN	123.479158	7.876048	none (floodplain; brgy. center); high (channel erosion of Labangan River)	high	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Activate Barangay Disaster Coordinating Council (BDCC); Avoid/limit construction of houses near the unprotected river channels.	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation site.	2006	MGB-RO
Upper Campo Islam (Pob.)	LABANGAN	123.510237	7.865123	none (floodplain; brgy. center); high (channel erosion of river channels)	moderate to high	The area is prone to riverbank scouring; Address unprotected riverbank by constructing properly engineered concrete embankment protection along build-up zone; Activate Barangay Disaster Coordinating Council (BDCC); Avoid/limit construction of houses near the unprotected river channels.	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Identify evacuation site.	2006	MGB-RO



Upper Pulacan	LABANGAN	123.475740	7.906727	none to low (floodplain and gentle hill); high (steep ridge slopes;riverbanks)	none to low ( localize flooding on gentle elevated slopes); moderate to high (flashflood/sheetflood within Labangan River floodplain)	Footslope of steeply sloping ridge north of the barangay center is highly susceptible to landslide accumulation; Observe for and/or monitor for presence/progress of mass movement (soil creep; tension cracks; riverbank scouring); Avoid/limit construction of houses directly at the foot of the steeply sloping ridge; Identify evacuation/relocation site; Activate Barangay Disaster Coordinating Council (BDCC)	Address and/or improve storm water drainage network; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Develop early warning system/signal for flood-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC)	2006	MGB-RO
Campo Village	LABANGAN	123.525252	7.842743	none	high ( sheetflood/ flashflood/coastal flooding/tsunami-coastal area)		The build-up zone is within the floodplain of Labangan River/coastal plain along Pagadian Bay;Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Observe for sea water swell attributed to storm surge/tsunami; Identify relocation site; Develop early warning system/signal for flood related hazard prevention/mitigation;Activate Barangay Disaster Coordinating Council (BDCC).	2006	MGB-RO

Dimasangca	LABANGAN	123.540896	7.854335	none	high (floodplain zone of Bayao River)		The build-up zone is near Bayao River; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Identify evacuation/relocation site; Develop early warning system/signal for flood-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	2006	MGB-RO
Lower Sang-an	LABANGAN	123.499408	7.836723	none	moderate to high (floodplain zone of Labangan River)		The build-up zone is within the floodplain of Labangan River; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Identify evacuation/relocation site; Develop early warning system/signal for flood-related hazard prevention/mitigation.	2006	MGB-RO

Upper Sang-an	LABANGAN	123.494299	7.848797	none	high (coastal area)		The build-up zone is within the floodplain/coastal plain along Pagadian Bay; Observe for rapid increase/decrease of floodwater possible accompanied by increase turbidity and soil content; Observe for sea water swell attributed to storm surge/tsunami; Identify relocation site; Develop early warning system/signal for flood related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	2006	MGB-RO
---------------	----------	------------	----------	------	---------------------	--	--	------	--------