

PRELIMINARY RISK ASSESSMENT

General information

Date				<i>Historical Information</i>		
Municipality				Geohazard inventory	Y	N
Address				Geomorphological Hazard	NO	LOW
Framework ⁽¹⁾					MED	HIGH
AP cause ⁽²⁾				Previous field survey	Y	N
Coordinates				Notes		
Surveyor						

Intensity

MP Density		Building Cracks	Y	N	
MP ascending velocity		Crack dimension	< 3mm	> 3mm	
MP descending velocity		Crack extension			
AP distribution		Ground fissure	Y	N	
AP magnitude		Geomorphological markers ⁽³⁾			
I1		I2		I3	
I4					

Exposure

Structures		Inhabitants	< 25	> 25	
Infrastructure		Strategic	Y	N	
Geothermal area	Y	N	Type ⁽⁴⁾		
Hydraulic work	Y	N	Type ⁽⁵⁾		
Quarry site	Y	N	Type ⁽⁶⁾		
Notes					
E1		E2		E3	
E4					

Risk and related suggestions

R1	No particular precautions have to be taken.
R2	Systematic field survey Annual to monthly ground-base manual monitoring (e.g. extensiometer and crackmeter) Soil bioengineering countermeasures for restoration of land effects
R3	Systematic field survey Weekly to daily ground-base manual monitoring (e.g. inclinometer, piezometer, rain gauge) Environmental engineering countermeasures for restoration of land effects Detailed studies
R4	Systematic field survey Continuous ground-base monitoring (e.g. GB-InSAR, GPS topographical monitoring) Environmental engineering countermeasures for restoration of land effects Detailed studies

Observations (if other):

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(1) Framework:

- forestry
- farming
- industrial
- urban
- other

(2) AP cause:

- slope instability (SI)
- areal subsidence (AS)
- local subsidence (LS)
- uplift (U)
- geothermal activity (GA)
- mining activity (MA)

(3) Other elements area:

- widespread water runoff
- gathered water runoff
- stagnant water
- spring
- ground settlement
- ground swelling
- counterslopes
- gibbosity
- other

(4) Type geothermal area:

- distribution network
- geothermal site
- extraction sites

(5) Hydraulic works:

- bridges
- steam
- dam
- anthropic lagoon

(5) Quarry site:

- yard area
- ravines

Contingency matrix of Intensity and Exposure classes for the evaluation of the Risk

		Exposition			
		E1	E2	E3	E4
Intensity	I1	R1	R1	R1	R2
	I2	R1	R2	R2	R3
	I3	R1	R2	R3	R4
	I4	R1	R3	R4	R4