FLOOD PLANNING MATRIX

Casino

TABLE 3: OTHER								
			Flood Hazard Category					Additional Constraint ¹
Controls	Development / Building Type	No Hazard	Rare Low Hazard ²	Low Hazard	High Depth Hazard	High Isolation Hazard	High Floodway Hazard	Rare High Floodway Hazard ²
Land Use	Non-Habitable Building (shed, toilets, shelter, etc)	N/A	SF1	SF1	SF1	SF1	SF1	SF1
Suitability &	(this line not used)							
Fill Level	Other Developments (eg. levees, roads, dams, etc)	N/A	SF1	SF1	SF1	SF1	SF1	SF1
	(this line not used)							
	(this line not used)							
Floor Level	(this line not used)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	(this line not used)							
	(this line not used)							
	(this line not used)							
	(this line not used)							
	(this line not used)							
Building Components		N/A	BC1	BC1	BC1	BC1	BC1	BC1
Structural	Small-scale ³ Development (eg. shed, small dam)	N/A	SS1	SS1	SS1	SS1	SS2	SS3
Soundness	Large-scale Development (eg. levee, raised road)	N/A	SS1	SS1	SS2	SS2	SS2	SS3
Flood Effect	Small-scale Development (eg. shed, small dam)	N/A	FE1	FE1	FE2	FE2	FE2	FE2
	Large-scale Development (eg. levee, raised road)	N/A	FE2	FE2	FE3	FE3	FE3	FE3
	(this line not used)							
	(this line not used)							
	(this line not used)							
Evacuation &	Not Applicable							
Access	(this line not used)							
	(this line not used)					_		
	(this line not used)							
Flood Awaren	Not Applicable							

Note 1: In addition to being assigned one of the standard flood hazard categories, a site may be classified as a "Rare High Floodway Hazard". In this instance, the most stringent of the two controls is to be used. For example, if the site is classified as both "High Depth Hazard" and "Rare High Floodway Hazard", an engineer's report is required (because SS3 is more stringent than SS2)

Note 2: The extreme flood hazard categories (i.e. "Rare Low Hazard" and "Rare High Floodway Hazard") are applicable only to the 2D model region in Casino

An explanation of the criteria used to define the hazard categories is contained in the Casino Floodplain Management Study (WBM Oceanics Australia, 2001)

Control Measures

N/A	Controls Not Applicable	Casino Flood Planning						
	Unsuitable Land Use - Not considered suitable for development	Matrix - OTHER						
	LAND USE SUITABILITY & MINIMUM FILL LEVEL	Mainx - OTHEN						
SF1	Consider for development subject to the controls below. No minimum fill level required.							
SF2	Consider for development subject to the controls below. For residential and commercial areas, the minimum fill level to be greater than							
	or equal to the 100 year flood level. For industrial areas, the minimum fill level to be greater than or equal to the 10							
SF3a	Consider for development subject to the controls below. Minimum fill level greater than or equal to the PMF flood level.							
	Mid-Richmond: If no site exists that can practically fulfill the above PMF requirement, the 500 year flood level plus 0.5m may substitute							
SF3b	Consider for development subject to the controls below.							
	Council to give consideration on the benefits of using the development during and after a flood emergency.							
	If the site is to be used for a flood emergency, the minimum fill level should preferably be greater than or equal to the PMF flood level.							
	Mid-Richmond: If no site exists that can practically fulfill the above PMF requirement, the 500 year flood level plus 0.5m may substitute							
F 14	MINIMUM FLOOR LEVEL							
FL1 FL2a	No minimum floor level required (Council to advise developer of flood risk and potential damage to building & contents. Flood levels available on request)							
FL2a FL2b	All floor levels to be greater than or equal to the 100 year flood level							
FL20	Not used All floor levels to be greater than or equal to the 100 year flood level plus 0.5m							
	All floor levels to be greater than or equal to the 100 year flood level plus 0.5m All floor levels to be greater than or equal to the PMF flood level.							
FL3a	a Mid-Richmond: If no site exists that can practically fulfill the above PMF requirement, the 500 year flood level plus 0.5m may substitute							
FL3b	If practical, some or all floor levels to be greater than or equal to the PMF flood level, so that these buildings will be available							
0.5	for accommodation / storage during and after a flood emergency.							
	Mid-Richmond: If no site exists that can practically fulfill the above PMF requirement, the 500 year flood level plus 0.5m may substitute							
FL4a	All floor levels to be as close to the minimum floor level above (habitable or other) as practical and not less than the floor level of the existing building							
	being extended if the existing floor level is less than or equal to the minimum floor level. If the extended weatherproof area exceeds 50% of the existing weatherproof area,							
	the extension is treated as a new building. The extended weatherproof area is measured as the cumulative area of	any previous extensions plus the proposed extension.						
FL4b	As for FL4a with the maximum percentage increase in extended weatherproof area to be:							
	(a) 50% if the extension's floor level is less than one (1) metre below the 100 year flood level;							
	(b) 25% if the extension's floor level is greater than two (2) metres below the 100 year flood level; or							
	(c) pro-rata between 50% and 25% for floor levels from one (1) metre to two (2) metres below the 100 year flood level.							
DOI	BUILDING COMPONENTS							
BC1	Buildings to have flood compatible material below the higher of (a) the minimum floor level or (b) the 1 in 100year flood level plus 0.5m. STRUCTURAL SOUNDNESS							
SS1								
	No structural soundness requirements for the force of floodwater, debris & buoyancy Engineers report to prove that structures subject to a flood up to the 100 year event can withstand the force of floodwater, debris & buoyancy.							
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	FLOOD EFFECT							
FE1	No action required							
FE2	The flood impact of the development to be considered by Council, with Council having the right to request an engineer's report (see FE3 below)							
FE3	Engineers report required to prove that the development will not result in adverse flood impact elsewhere							
	EVACUATION/ACCESS							
EA1	Council to provide information on flood evacuation strategy							
EA2	Not used							
EA3	Reliable access for pedestrians and transport required during the 100yr ARI event. Council to provide information on flood evacuation strategy							
EA4a	Emergency service site - should have good access up to the PMF and preferably not cut-off from the main residential area(s).							
EAAb	Council to evaluate suitability of site in this respect.							
EA4b	If site to be used during and after a flood emergency (see FL3b above), should have good access up to the PMF							
	and preferably not cut-off from the main residential area(s). FLOOD AWARENESS							
FA1	FLOOD AWARENESS Not used							
FA1	149(2) Certificates to notify possible affectation by a flood in the Richmond River and/or one of its tributaries.							
1 74	The severity of flooding can be determined by comparison of surveyed levels of the site with predicted flood heights,	and also the flood hazard						
	The second showing can be determined by comparison of surveyed levels of the site with predicted flood fleights,							