Report on submissions and further submissions on the Proposed Waikato District Plan

Hearing 27B: Natural Hazards: General Submissions

Appendix 3: Cascade table

Natural Hazards and Climate Change

The strategic objectives dealing with urban environment and rural environment are relevant to the natural hazards chapter, where these chapters also manage the location and design of structures and influence the management of natural hazard risk.

Proposed Objectives 15.2.1, 15.2.2 and 15.2.3 and the policies and methods that implement them, including the rules dealing with flood risk, defended areas, high risk coastal hazards, and coastal sensitivity areas are all intended to work together to manage the risks from natural hazards as an integrated whole.

This report only deals with proposed Objectives 15.2.1 and 15.2.2.

Cascade:

Objective	Policy	Rule
1.12.8 Strategic Objectives (recommended for relocation into Chapter 15)	All policies in Chapter 15	All rules in Chapter 15
I.12.8 (d.) Objective - Natural Hazards and Climate Change The choice, location and design of development in the district takes into account the risks from natural hazards and potential impacts of climate change.		

Objective 15.2.1 - Resilience to natural hazard risk A resilient community where the risks from natural hazards on people, property, infrastructure and the environment from subdivision, use and development of land are avoided or appropriately mitigated.	 Policy 15.2.1.1 - New development in areas at significant risk from natural hazards a. Avoid new subdivision, use and development where they will increase the risk to people's safety, well-being and property in the following areas identified as being at significant risk from natural hazards: High Risk Flood Area; High Risk Coastal Hazard-(Inundation) 	Recommended combined rule 15.7 and 15.8 into 15.7A <u>Coastal Sensitivity Areas</u> , together with recommendations in section 42 report prepared by Ms Nicolson Effects on people, property and the environment may be considered in discretionary and non-complying activity rules In matters of discretion: e.g. 22.4.1.2 General subdivision RD1 (a) Subdivision must comply
	Area; iii. High Risk Coastal <u>Hazard</u> (Erosion) Area.	 with all of the following conditions: (i) (v) (b) Council's discretion is restricted to the following matters: (i) subdivision layout and design including dimensions, shape and orientation of the proposed lot; (ii) effects on rural character and amenity values; (iii) effects on landscape values; (iv) potential for reverse sensitivity effects; (v) extent of earthworks for the location of building platforms and accessways.; (vi) natural hazards risk, including liquefaction risk and fire risk (refer to Chapter 15).

Policy 15.2.1.2 - Changes to existing land use activities and development in areas at significant risk from natural hazards	
a. In areas of High Risk Flood, High Risk Coastal Hazard (Erosion) and High Risk Coastal Hazard (Inundation), ensure that when changes to existing land use activities and development occur, a range of risk reduction options are assessed, and development that would increase risk to people's safety, well-being and property is avoided.	
Policy 15.2.1.3 - New emergency services and hospitals in areas at significant risk from natural hazards	
a. Avoid locating new emergency service facilities and hospitals in areas which are at significant risk from natural hazards, including High Risk Flood, High Risk Coastal Hazard (Inundation) and High Risk Coastal Hazard (Erosion), unless, considering engineering and technical constraints or functional and operational requirements, they cannot be reasonably located elsewhere and will not increase the risk to or vulnerability of people or communities.	
Policy 15.2.1.4 - New and upgrading of infrastructure and utilities in areas subject to significant risk from natural hazards	

 a. Enable the construction of new infrastructure and utilities in areas at significant risk from natural hazards, including High Risk Flood, High Risk Coastal Hazard (Inundation) and High Risk Coastal Hazard (Erosion) areas only where: i. the infrastructure and utilities are technically, functionally or operationally required to locate in areas subject to natural hazards, or it is not reasonably practicable to be located 	
to be located elsewhere; and ii. any increased risks to people, property and the environment are mitigated to the extent	
practicable; and iii. the infrastructure and utilities are designed, maintained and managed, including provision of hazard mitigation works where appropriate, to function to the extent practicable during and after natural hazard events.	
(b) Enable upgrading of infrastructure and utilities in the areas mentioned in (a), where (a)(i), (ii) and (iii) are complied with."	
Policy 15.2.1.5 - Existing infrastructure and utilities in all areas subject to natural hazards	
a. Provide for the operation, maintenance and minor	

	upgrading of existing	
	infrastructure and utilities	
	in all areas subject to	
	natural hazards.	
Objective 5.2.2 -		
Awareness of natural	Policy 15.2.2.1 - Natural	
hazard risks	hazard risk information	
nazara risks		
A well-informed community	a Enchla secola ta ha	
	a. Enable people to be	
that:	informed and have	
	access to information on	
a. is aware of, and	the natural hazards	
understands, which	affecting their properties	
natural hazards affect	and surrounding area,	
the district; and	including through:	
b. is able to effectively and	i. provision of Land	
efficiently respond to,	Information	
and recover from,	Memoranda;	
natural hazard events.	ii. natural hazard	
	technical	
	information, risk	
	registers and	
	mapping on the	
	Council's website,	
	the Waikato	
	Regional Council	
	Hazards Portal,	
	this district plan	
	and accompanying	
	planning maps;	
	iii. education,	
	provision of	
	information and	
	community	
	engagement; and	
	iv. alignment with	
	the work of other	
	agencies including	
	iwi and the	
	Waikato Regional	
	Council.	
	Policy 15.2.2.2 - Awareness of	
	-	
	Community Response Plans	
	a. Improve response to	
	and recovery from	
	natural hazard events by	
	encouraging community	
	awareness and use of	
	information and	
	methods contained in	

	Community Response Plans.	
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Climate change

Note: Objective 1.12.8 was added to Chapter 1 PWDP by Variation 2. The three other objectives and the policies and rules are in Chapter 15. All the climate change policies respond to all the objectives to some extent. Rules mentioning climate change all relate to the effects of climate change on of natural hazards. All rules mentioning climate change do so as matters of discretion for restricted discretionary activities. Rule 15.7.2 (building in coastal sensitivity areas) is given as a representative example.

³ Director General of Department of Conservation [2108.12]

⁴ Waikato Regional Council [2102.86],

Objective	Policy	Rule
	and RCP 8.5H+ for sea	
Objective 15.2.3 Climate	level rise [2]; and	
Change	(iv) in respect to the	
A well-prepared community	coastal environment,	
that:	increases in storm	
a) Is <u>resilient</u> able to adapt ' to	surge, waves and <u>wind</u> . ⁵	
the effects of climate change;	.	
and	Policy 15222 Eutomotion dues	
b) Has transitioned to	Policy 15.2.3.2 - Future land use planning and climate change	
development that prioritises	(a) Increase the ability of the	
lower greenhouse gas	community to adapt to the	
emissions. ²	effects of climate change	
	when undertaking future	
	land use planning by:	
	(i) ensuring the	
	potential	
	environmental and	
	social costs of	
	climate change,	
	including effects on	
	indigenous	
	biodiversity (inland	
	migration), historic	
	heritage, Maaori	
	Sites and Areas of	
	Significance,	
	mahinga kai, public	
	health and safety, public access to the	
	coast and	
	waterway margins,	
	and the built	
	environment are	
	addressed.	
	(ii) encouraging the	
	incorporation of	
	sustainable design	
	measures within	
	new subdivision,	
	landuse and	
	development,	
	including:	
	(A) low impact,	
	stormwater	
	management,	

¹ Kainga Ora Homes and Communities [2094.17] ² Federated Farmers of New Zealand [2173.29]

⁵ Tainui Hapu Environmental Management Committee [2097.1] and Department of Conservation [2108.13]

Objective	Policy		Rule
		urban design and	
		green	
		infrastructure;	
		(B) of relocatable	
		buildings and	
		structures in	
		areas potentially	
		at risk due to sea	
		level rise or	
		increased flood	
		levels;	
		(C) efficient water	
		storage;	
		(D) provision of	
		renewable energy	
		generation; and	
		(E) transferring to	
		activities with	
		lower greenhouse	
		gas emissions.	
	(iii)	providing ongoing	
		monitoring of	
		changes to the	
		environment due	
		to climate change;	
	(:)	and fo cilitating	
	(iv)	facilitating	
		community discussion on	
		adaptive pathways	
		to manage the	
		risks associated	
		with climate	
		change and	
		incorporating	
		them, where	
		appropriate, into	
		the district plan	
		through plan	
		changes.	
		-	
	Policy 15	.2.3.3 Precautionary	
	approach	-	
	uncertaint	-	
		s throughout the	
		t likely to be affected	
		nate change over the	
	next l	00 years, adopt a	

Objective	Policy	Rule
Objective	Policyprecautionary approach towards new subdivision, use and development which may have potentially significant or irreversible adverse effects, but for which there is incomplete or uncertain information.Policy15.2.3.4-Provide sufficient setbacks for new development-(a)Protect people, property and the environment from the projected adverse effects of climate change, including sea level rise, by providing sufficient setbacks from water bodies and the coast when assessing new development.(b)Ensure that, in establishing development setbacks, adequate consideration is given to:(i)the protection of natural ecosystems, including opportunities for the inland migration of coastal habitats;(ii)the wulnerability of the community;(iii)the maintenance and enhancement of public access to the coast and public open space; (iv) the requirements of infrastructure; and (v) natural hazard mitigation provision, including the protection of natural defences."	Rule
	Policy 15.2.3.5 - Assess the impact of climate change on the level of natural hazard risks.	

Objective	Policy	Rule
·	(a) For all new subdivision, use	
	and development requiring	
	rezoning or a resource consent, ensure that	
	account is taken of the	
	projected effects of climate	
	change over the next 100	
	years when assessing any	
	identified risks from natural	
	hazards, and their effects	
	on people, property,	
	infrastructure and the	
	environment.	
	(b) Ensure that, when assessing	
	the effects of climate	
	change on the level of	
	natural hazard risk in	
	accordance with Policy	
	15.2.3.5(a) above, the	
	allowances in Policy	
	15.2.3.1(a)(i)-(iv) are	
	applied. (c) Where the assessment	
	(c) Where the assessment required by Policy	
	15.2.3.5(a) and Policy	
	15.2.3.5 (b) indicates that	
	natural hazards are likely to	
	be exacerbated by climate	
	, change, ensure that	
	subdivision and	
	development are designed	
	and located <u>so that any</u>	
	increased and cumulative	
	risk from natural hazards is	
	managed to acceptable	
	levels and any intolerable	
	<u>risks are avoided or</u>	
	reduced to tolerable or	
	<u>acceptable levels to avoid,</u> or appropriately mitigate,	
	any increased and	
	cumulative risk, including	
	increased risk of flooding,	
	liquefaction, coastal	
	inundation, coastal erosion,	
	slope instability, fire, and	
	drought."6	

⁶ Waikato Regional Council [2102.91], Counties Power [FS3021.9] and Mercury NZ Limited [FS3034.153],

Objective	Policy	Rule
Objective 15.2.2 -		
Awareness of natural		
hazard risks		
A well-informed community		
that:		
(a) is aware of, and		
understands, which natural		
hazards affect the district; and		
(b) is able to effectively and		
efficiently respond to, and		
recover from, natural hazard		
events		
Objective 15.2.3 Climate		
Change		
A well-prepared community		
that:		
a) Is <u>resilient</u> able to adapt ⁷ to		
the effects of climate change;		
and		
b) Has transitioned to		
development that prioritises		
lower greenhouse gas		
emissions. ⁸		

 ⁷ Kainga Ora Homes and Communities [2094.17]
 ⁸ Federated Farmers of New Zealand [2173.29]