## Appendix 3A: Assessment of Intensification Study Areas – summary table

## Urban Intensification Study Areas Assessment Summary

								Po	otential	qualifyi	ng matte	ers											Qualitati	ve asse	ssment							Y	ield	
Ref.	Location	Key Constraints	Key Opportunities	Natural character in the coastal environment	Wetlands, lakes, rivers and their margins	ONFL	Significant indigenous vegetation/fauna	Relationship of Mãori with ancestral land, water, sites and wãhi tapu	Historic heritage	Significant risk from flood hazard	Significant risk from earthquake hazard	Significant risk from coastal hazard	Nationally significant infrastructure	Public open space	Designations	Business land for low density uses	Urban form	Local neighbourhoods	Activity centres	Residential development	Business land	Transport networks	Infrastructrure & servicing	Natural ecosystems	Waterbodies	Landscape and open space	Heritage	Topography	Natural hazards & land risks	Land use compatibility	Climate change (low-carbon futures)	Additional theoretical dwelling capacity (residential zones only)	Additional theoretical dwelling capacity (residential, centres and mixed use zones)	Overall assessment
UI-ÕT-1	Ōtaki Main Street/Mill Road	<ul> <li>Infrastructure, particularly a constrained water supply.</li> <li>Extensive flood hazard.</li> <li>Historic heritage.</li> <li>Wähi tapu.</li> <li>Poor access to public transport.</li> <li>Discharges to Haruãtai stream.</li> </ul>	Good access to local services.     Intensification could support     existing and new activities and     services on Main Street/Mill     Road.     Relatively flat.		•			•	•	•				•	•																	1,843	2,122	2В
UT-ÕT-1	Ōtaki Railway	<ul> <li>Infrastructure, particularly a constrained water supply.</li> <li>Extensive flood hazard.</li> <li>Earthquake hazard and liquefaction.</li> <li>Poor access to public transport.</li> <li>Discharges to Haruātai stream.</li> </ul>	Good access to local services.     Intensification could support     existing and new activities and     services around old SH1.     Improve existing     neighbourhood character,     particularly the pedestrian     environment around old SH1.		•			•	•	•	•		•	•	•																	854	1,142	2A
UI-WB	Waikanae Beach Local Centre	<ul> <li>Poor access to a range of commercial activities and community services.</li> <li>Extensive flood hazard.</li> <li>High liquefaction potential.</li> <li>Proximity to the Takamore wāhi tapu area.</li> </ul>	<ul> <li>Opportunity to improve the legibility and vibrancy of the Waikanae Beach local centre through intensification.</li> <li>Area is relatively flat.</li> </ul>					•		•																						404	408	2A
UI-WA	Waikanae Town Centre	<ul> <li>Coordinating intensification with low-density industrial land.</li> <li>Flood hazard.</li> <li>Steeper topography in the eastern extent of the area.</li> </ul>	<ul> <li>Opportunity to improve the legibility and vibrancy of the Waikanae town centre through intensification.</li> <li>Proximity to rapid transit.</li> <li>Good access to a range of commercial activities, community services, employment and public open spaces.</li> </ul>		•	•	•	•	•	•	•		•	•	•	•																4,095	4,403	2A
UI-PA-1	Kena Kena Local Centre	<ul> <li>Low lying land near the coast.</li> <li>Flood hazard.</li> <li>Distance from Papararaumu station and metropolitan centre.</li> <li>High liquefaction potential.</li> </ul>	Opportunity to improve the legibility and vibrancy of the Kena Kena local centre through intensification.     Excellent access to public and coastal open space.     The area is flat.				•		•	•		•		•	•																	98	109	2A
UI-PA-2	Mazengarb Local Centre	<ul> <li>Poor access to a range of community services and commercial activities (except Paraparaumu college).</li> <li>Flood hazard.</li> <li>Distance from Papararaumu station and metropolitan centre.</li> <li>High liquefaction potential.</li> </ul>	The area is flat.		•		•			•				•	•																	27	45	2В
UI-PA-3	Paraparaumu Beach Town Centre	<ul> <li>Coastal hazard and effects of climate change.</li> <li>Congestion on Kăpiti Road.</li> <li>High liquefaction potential.</li> </ul>	<ul> <li>Excellent access to a range of commercial services and community activities, as well as coastal amenity and open space.</li> <li>Intensification could further support a well established town centre.</li> <li>The area is flat.</li> </ul>	•	•		•	•	•			•		•	•																	575	828	1
UI-PA-4	Meadows Local Centre	<ul> <li>Poor access to a range of community services and commercial activities.</li> <li>Liquefaction potential.</li> </ul>	<ul> <li>Development opportunity associated with undeveloped parts of the area.</li> <li>The area is relatively flat.</li> </ul>		•								•	•	•																	132	264	2В

								P	otential	qualifyi	ng matte	ers											Qualitati	ive asse	ssment							Y	ield	
Ref.	Location	Key Constraints	Key Opportunities	Natural character in the coastal environment	Wetlands, lakes, rivers and their margins	ONFL	Significant indigenous vegetation/fauna	Relationship of Mãori with ancestral land, water, sites and wähi tapu	Historic heritage	Significant risk from flood hazard	Significant risk from earthquake hazard	Significant risk from coastal hazard	Nationally significant infrastructure	Public open space	Designations	Business land for low density uses	Urban form	Local neighbourhoods	Activity centres	Residential development	Business land	Transport networks	Infrastructrure & servicing	Natural ecosystems	Waterbodies	Landscape and open space	Heritage	Topography	Natural hazards & land risks	Land use compatibility	Climate change (low-carbon futures)	Additional theoretical dwelling capacity (residential zones only)	Additional theoretical dwelling capacity (residential, centres and mixed use zones)	Overall assessment
UI-PA-5	Paaparaumu Metropolitan Centre	<ul> <li>Coordinating intensification with low-density industrial land.</li> <li>Flood hazard and liquefaction potential.</li> <li>Management of a range of potential reverse sensitivity issues.</li> </ul>	<ul> <li>Intensification of the area within the district that has the greatest access to a range of commercial activities, community services, public transport and centres of employment.</li> <li>Increased height and density commensurate with the role of the area as the primary centre within the district.</li> </ul>		•		•	•	•	•	•		•	•	•	•																6,190	12,543	2В
UI-RB	Raumati Beach Town Centre	<ul> <li>Coastal hazard and effects of climate change.</li> <li>High liquefaction potential.</li> </ul>	<ul> <li>Excellent access to a range of commercial services and community activities, as well as coastal amenity and open space.</li> <li>Intensification could further support a well established town centre.</li> </ul>	•	•		•	•	•	•		•		•	•																	693	812	2A
UI-RS	Raumati South Local Centre	<ul> <li>High liquefaction potential.</li> <li>Relative distance to Paraparaumu metropolitan centre and railway station.</li> </ul>	<ul> <li>Good access to local commercial activity, amenity and coastal open space.</li> <li>Intensification could further support a well established local centre.</li> </ul>						•					•																		139	149	1
UI-PK	Paekakariki Local Centre and Railway Station	<ul> <li>Distance from commercial activities and community services at Paraparaumu.</li> <li>High liquefaction potential and areas of combined earthquake hazard.</li> <li>Lack of reticulated stormwater and wastewater infrastructure.</li> <li>Safety issues with the Beach Road intersection.</li> <li>Significant alteration of existing neighbourhood character.</li> <li>Complex topography.</li> <li>Increased coastal hazard associated with climate change.</li> </ul>	<ul> <li>Good access to local shops, amenity and coastal open space.</li> <li>Good access to public transport.</li> </ul>	•	•			•	•	•	•	•	•	•	•																	1,311	1,385	2В

Appendix 3B: Detailed Assessment of Intensification Study Areas

## **KAPITI COAST INTENSIFICATION ANALYSIS**



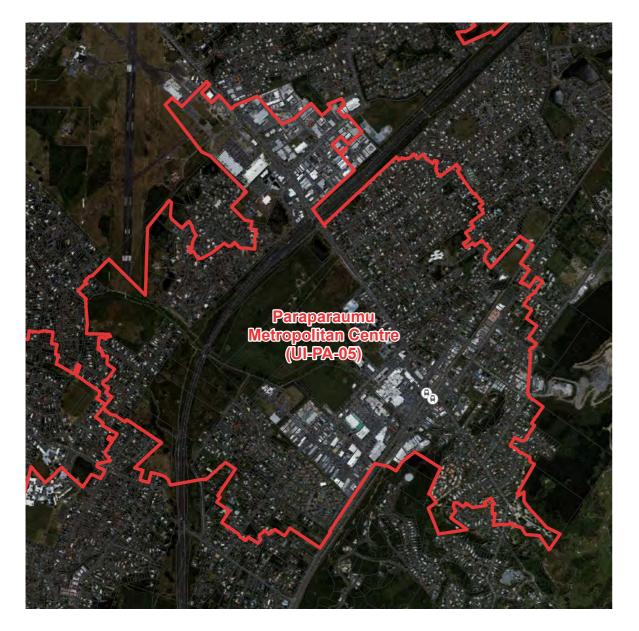
This plan has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.

File Ref: BM210206\_KCDC\_Intensification\_Capacity.indd

#### **KAPITI COAST INTENSIFICATION**

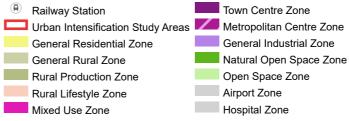
## PARAPARAUMU METROPOLITAN CENTRE

AERIAL



#### ZONING



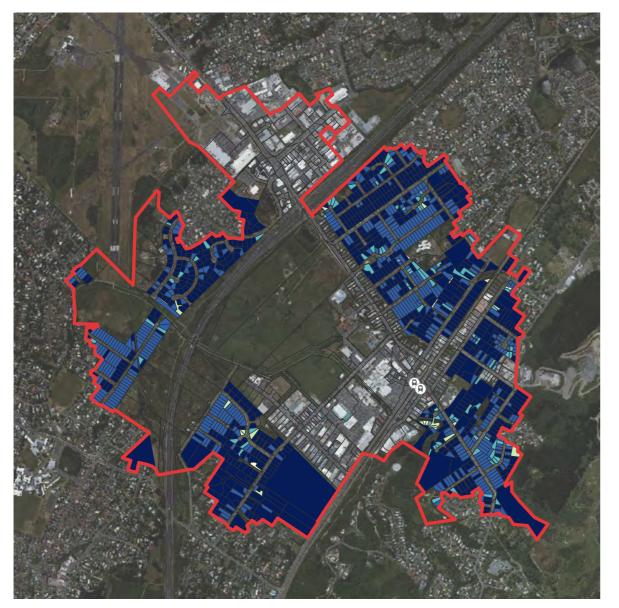


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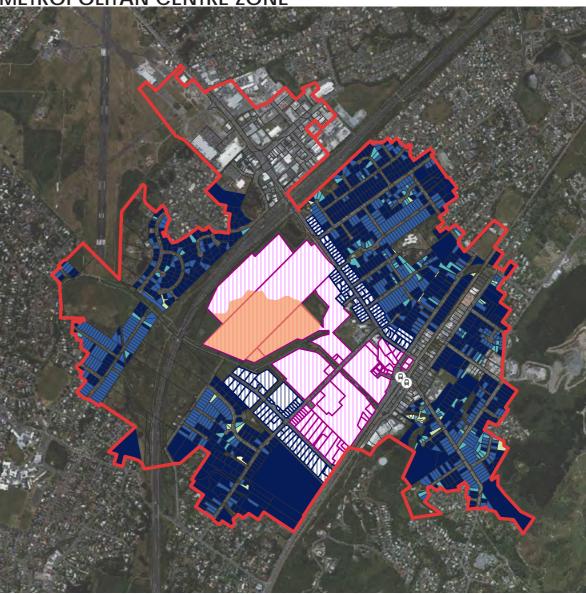


#### **KAPITI COAST INTENSIFICATION** Paraparaumu Metropolitan Centre



SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.38	20	8
6.5m - 11m		3	1.29	30	39
11m - 14.5m		4	5.64	40	226
14.5m - 18m		5	34.88	50	1,744
18m <		6	91.84	60	5,510
	1,336		134.03		7,526
Additional dwell	ings (yield minus e	existing resident	ial units)		6.190

#### YIELD IN RESIDENTIAL + MIXED USE + METROPOLITAN CENTRE ZONE



SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.38	20	8
6.5m - 11m		3	1.29	30	39
11m - 14.5m		4	5.64	40	226
14.5m - 18m		5	34.88	50	1,744
18m <		6	91.84	60	5,510
Mixed use zone		6	14.70	60	882
Metropolitan zone		12	54.71	100	5,471*
	1,336		203.44		13,879
Additional dwellin	gs (yield minus exi	sting residential	units)		12,543

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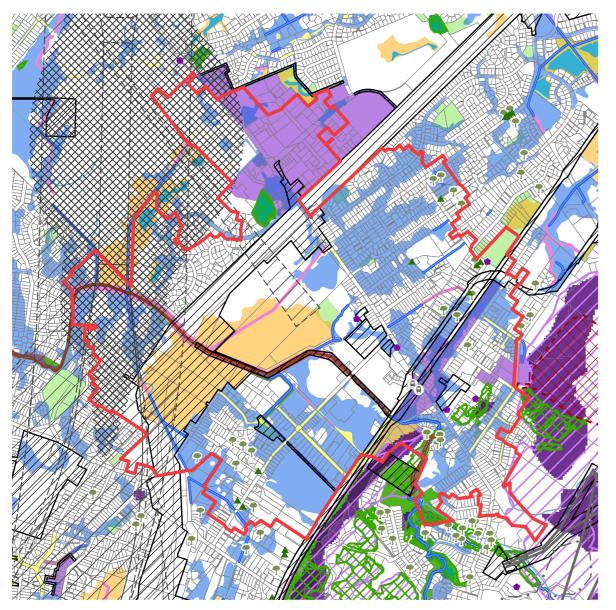
Flood storage area (approx. 14 ha).

\*Note: the flood storage area within the Metropolitan Centre Zone accounts for 1,400 of the approximate yield.

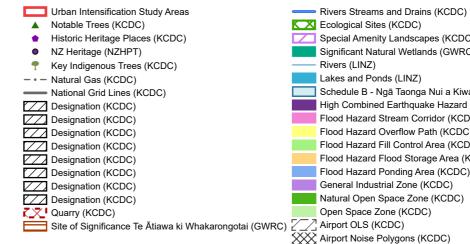
#### **KAPITI COAST INTENSIFICATION** Paraparaumu Metropolitan Centre

## PARAPARAUMU METROPOLITAN CENTRE

#### POTENTIAL QUALIFYING MATTERS



Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.





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Special Amenity Landscapes (KCDC) Significant Natural Wetlands (GWRC) Lakes and Ponds (LINZ) Schedule B - Ngā Taonga Nui a Kiwa (GWRC) High Combined Earthquake Hazard (GWRC) Flood Hazard Stream Corridor (KCDC) Flood Hazard Overflow Path (KCDC) Flood Hazard Fill Control Area (KCDC) Flood Hazard Flood Storage Area (KCDC) Flood Hazard Ponding Area (KCDC) General Industrial Zone (KCDC) Natural Open Space Zone (KCDC) Open Space Zone (KCDC)

#### **KAPITI COAST INTENSIFICATION** Paraparaumu Metropolitan Centre

UI-PA-5 (Paraparau	UI-PA-5 (Paraparaumu Metropolitan Centre)							
Locality	Locality Paraparaumu							
Location	on The area around the Paraparaumu Metropolitan Centre and Paraparaumu railway station.							
Extent	Approximate 800m walking distance from the Metropolitan Centre zone Paraparaumu railway station. Excludes the extents of the area that are located within Future Urban Study Areas PA-01, PA-02 and RB-01.							

K	ey constraints	Ke	y opportunities
٠	Coordinating intensification with low-density industrial land.	•	Intensification of the area within the district that has the greatest
•	Flood hazard and liquefaction potential.		access to a range of commercial activities, community services,
•	Management of a range of potential reverse sensitivity issues.		public transport and centres of employment.
		•	Increased height and density commensurate with the role of the
			area as the primary centre within the district.

Potential qualifying matters (refer methodology for explana	tion and li	mitations)
Qualifying matter	Applic able?	Notes
Natural character in the coastal environment		
Wetlands, lakes, rivers and their margins	•	The Wharemauku stream, wetlands and other waterbodies.
Outstanding natural features and landscapes		
Significant indigenous vegetation and significant habitats of indigenous fauna	•	Ecological sites located within the area.
Relationship of Māori and their culture and their traditions with their ancestral lands, water, sites, wāhi tapu and other taonga	•	The Wharemauku Stream is a site of significance of Te Ātiawa ki Whakarongotai.
Historic heritage	•	A small number of listed heritage buildings located throughout the area.
Significant risk from flood hazard	•	Flood hazard in the central and southern extent of the area.
Significant risk from earthquake hazard	•	Small extents of earthquake hazard located in the south-eastern extent of the area.
Significant risk from coastal hazard		
Nationally significant infrastructure	•	The Expressway and rail corridor pass through the area.
Public open space	•	Several public open spaces located throughout the area.
Designations	•	Designations associated with the Expressway, schools, drainage and open space, telecommunications and the railway corridor.
Business land for low density uses	•	General industrial land located in the northern and south-eastern extents of the area.

Criteria	Observations	Ratin
Mana whenua	<ul> <li>The Wharemauku stream is identified as a site of significance to Te Ātiawa ki Whakarongotai.</li> <li>There are a number of archaeological sites (associated with middens) located in the area around where the Expressway passes over the Wharemauku stream.</li> </ul>	
Urban form	<ul> <li>Increased height and building density could be appropriate within and around the Metropolitan Centre Zone.</li> <li>Increased density of urban form will improve the legibility of the area as the primary urban centre within the Kāpiti Coast.</li> <li>A cohesive response to density around the town centre may be challenged by the low density uses associated with the General Industrial zoned land around the railway station.</li> <li>The presence of Coastlands mall may challenge the development of height and density in the short to medium term.</li> </ul>	
Local neighbourhoods	<ul> <li>Coastlands Mall defines the majority of the established extent of the Metropolitan Centre zone. Increased height and density could have little impact on established qualities of this area.</li> <li>The Mixed use zone on Ihakara Street is predominantly defined by low density commercial activity. Increased height and density could have little impact on established qualities of this area.</li> <li>The residential area to the north-west of the Expressway (around Milne Drive) is primarily defined by large single or two storey detached dwellings on larger lots. Intensification of up to 6 stories could alter the existing character of this area.</li> <li>The residential area to the west and south of the metropolitan centre (around Kiwi Road, Raumati Road and Rimu Road) is primarily defined by single and two storey detached dwellings. Intensification of up to 6 stories could alter the existing character of this area.</li> <li>The residential area to the north of the metropolitan centre (around Kiwi Road, Raumati Road and Rimu Road) is primarily defined by single and two storey detached dwellings. Intensification of up to 6 stories could alter the existing character of this area.</li> <li>The residential area to the north of the metropolitan centre (around Arawhata Road) is primarily defined by single storey detached dwellings. Intensification of up to 6 stories could alter the existing character of this area.</li> <li>The area to the south-east of the railway line is defined by a mix of residential and industrial activity. Residential activity is predominantly single storey, with views of the hills to the east. Intensification of up to 6 stories could alter the existing character of this area.</li> </ul>	

Criteria	Observations	Ratir
Activity centres	• The area has excellent access to range of commercial activities and community services, including shops, cafes	
	and entertainment, supermarkets, schools, and other community facilities.	
	There are significant areas of employment located within the area, particularly within General Industrial areas to	
	the north-west of the Expressway and to the south-east of the railway station.	
Residential	<ul> <li>Intensification in the area in the could contribute significant to dwelling supply.</li> </ul>	
development	High levels of access to commercial activities, community services and public transport could encourage the	
	development of higher density typologies.	
Business land	There are significant areas of General Industrial zoned land located within the area. Residential intensification	
	may put pressure on these uses to relocate elsewhere.	
Transport	The area has direct access to the Expressway.	
networks	Kāpiti Road is the most congested road in the district, and development in the area could exacerbate this.	
	<ul> <li>The area has good access to public transport and is within a walkable catchment of Paraparaumu railway</li> </ul>	
	station.	
	<ul> <li>The area has good access to active modes along the Expressway.</li> </ul>	
Infrastructure	<ul> <li>Water and wastewater reticulation is generally integrated into the existing street network.</li> </ul>	
and servicing	The area of greenfield land in the northern extent of the Metropolitan Centre zone would require the	
-	development of an internal reticulation network.	
	• Stormwater reticulation is generally integrated into the street network. The majority of stormwater in the area	
	discharges at various points in to the Wharemauku stream.	
	<ul> <li>Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or</li> </ul>	
	pipes and pump stations between the area and the plant.	
Natural	<ul> <li>There is an ecological site associated with a wetland located to the north-west of the interchange between the</li> </ul>	
ecosystem	Expressway and Kāpiti Road.	
values	<ul> <li>There are a number of ecological sites and key indigenous trees located in the area to the south-east of the</li> </ul>	
	railway line.	
Water bodies	<ul> <li>The Wharemauku stream and a number of tributary drains flow through the area. Intensification in the area could</li> </ul>	
	increase discharges to the Wharemauku stream.	
	<ul> <li>There is a wetland located to the north-west of the interchange between the Expressway and Kāpiti Road.</li> </ul>	
	<ul> <li>There is a stormwater pond located to the south-west of the interchange between the Expressway and Kapiti</li> </ul>	
	Road.	
	<ul> <li>There are areas of stormwater retention identified within the Metropolitan Centre structure plan that could be</li> </ul>	
	associated with wetlands.	
Landscape and		
open space		
values	<ul> <li>size. Paraparaumu Domain is the largest open space, located on the north-eastern edge of the area.</li> <li>There are areas of sand dune protection identified within the Metropolitan Centre structure plan.</li> </ul>	
values		
	There are special amenity landscapes associated with the hills along the south-eastern edge of the area.     There are a small number of natable trees leasted throughout the area.	
	There are a small number of notable trees located throughout the area.	
Heritage values	There are a small number of heritage listed buildings located throughout the area.	
	Risk of archaeological discovery given the archaeological sites associated with the Expressway	
Topography	The majority of the area is relatively flat.	
	The area to the south-east of the railway station gently slopes up to the south-east.	
Natural hazards	There are significant areas of flood hazard located in the central and southern extents of the area, particularly	
and land risks	around the undeveloped area to the north of the Metropolitan Centre. This includes areas of ponding, flood	
including effects	storage, overland flow paths and stream corridors.	
of climate	• The majority of the area is subject to high liquefaction potential, although there are extents to the south-east of	
change)	the railway line that are not subject to this.	
	• There are small extents of area to the south-east of the railway line subject to high combined earthquake hazard.	
	There are numerous sites on the SLUR, particularly around Coastlands and the General Industrial areas.	
Land use	Potential for reverse sensitivity effects on the Expressway.	
compatibility	<ul> <li>Potential for reverse sensitivity effects on low-density industrial uses in the area.</li> </ul>	
	Potential for reverse sensitivity effects on schools in the area.	
	Potential for reverse sensitivity effects on the railway corridor.	
	<ul> <li>Parts of the area are covered by the airport air noise boundary and obstacle limitation surfaces.</li> </ul>	
	<ul> <li>There are a range of designations associated with the Expressway, schools, drainage and open space,</li> </ul>	
	telecommunications and the railway corridor.	
Climate change	<ul> <li>Intensification in the area would have good access to a range of community services, commercial activities,</li> </ul>	
low-carbon	shops, and centres of employment.	
futures)	<ul> <li>The area has good access to active modes along the Expressway.</li> </ul>	
	<ul> <li>The area has good access to public transport and is within a walkable catchment of the Paraparaumu Railway</li> </ul>	
	<ul> <li>The area has good access to public transport and is within a waikable catchinent of the Paraparaumu Railway station.</li> </ul>	
	Intensification in the area could promote reduced-emission choices.	
	<ul> <li>Good access to community services, commercial activities and other amenity may encourage the development of more energy efficient, higher density dwelling typologies.</li> </ul>	





Date: 01 February 2022 Revision: 1 Plan prepared for KCDC by Boffa Miskell Limited Project Manager: Hamish.Wesney@boffamiskell.co.nz | Drawn: HHm | Checked: JCo/ABa

#### KAPITI COAST INTENSIFICATION

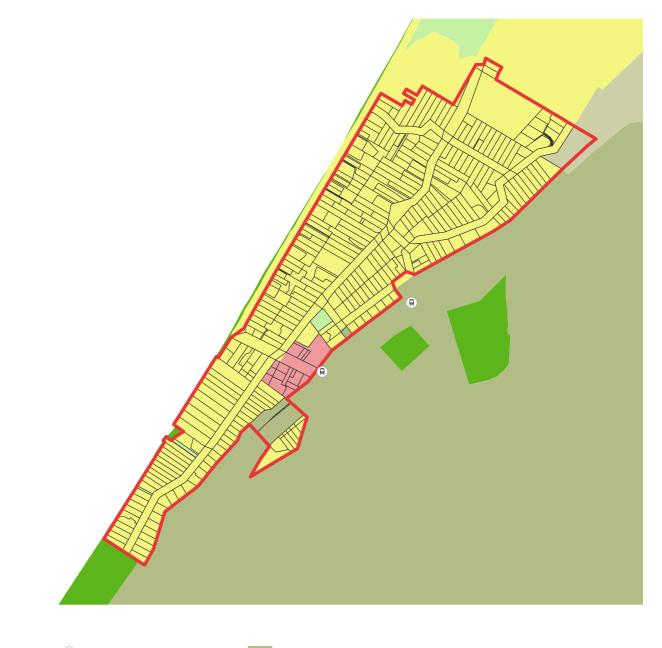
#### Paraparaumu Metropolitan Centre

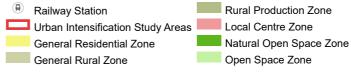
## PAEKAKARIKI LOCAL CENTRE AND RAILWAY STATION

AERIAL

ZONING







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#### **KAPITI COAST INTENSIFICATION** Paekakariki Local Centre and Railway Station



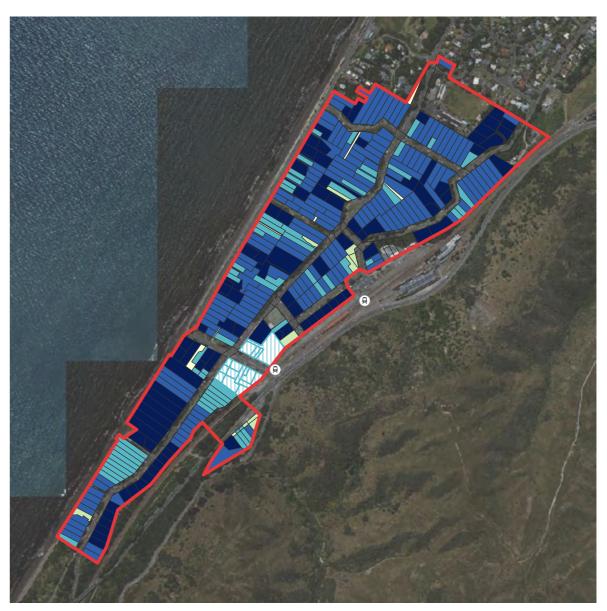
SITE WIDTH	EXISTING # RESIDENTIAL UNITS		AREA IN HA	APPLIED DENSITY DW/HA	APPRO) YIELD
< 6.5m		up to 2	0.31	20	6
6.5m - 11m		3	0.57	30	17
11m - 14.5m		4	4.56	40	182
14.5m - 18m		5	15.50	50	775
18m <		6	10.61	60	637
	306		31.55		1,617
Additional dwell	ings (yield minus e	existing resident	ial units)		1.311



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#### YIELD IN RESIDENTIAL + LOCAL CENTRE ZONE



SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.31	20	6
6.5m - 11m		3	0.57	30	17
11m - 14.5m		4	4.56	40	182
14.5m - 18m		5	15.50	50	775
18m <		6	10.61	60	637
Local centre zone*		6	1.24	60	74
	306		32.79		1,691
Additional dwelling	as (vield minus exi	sting residential	units)		1.385

\*Local centre height for Paekākāriki has been assumed at 6 storys, as it is within the walkable catchment of the railway station. **KAPITI COAST INTENSIFICATION** 

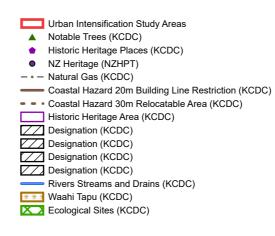
#### Paekakariki Local Centre and Railway Station

## PAEKAKARIKI LOCAL CENTRE AND RAILWAY STATION

#### POTENTIAL QUALIFYING MATTERS



Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.





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#### **KAPITI COAST INTENSIFICATION** Paekakariki Local Centre and Railway Station

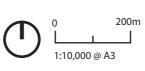
UI-PK (Paekakariki	UI-PK (Paekakariki Local Centre and Railway Station)								
Locality	Paekakariki								
Location	The area to the north and south of the Paekakariki railway station.								
Extent	Approximate 800m walking distance from the Paekakariki railway station, and approximate 200m walking distance from the Paekakariki local centre zone.								

Key	constraints	Key	opportunities
•	Distance from commercial activities and community services at	•	Good access to local shops, amenity and coastal open space.
	Paraparaumu.	•	Good access to public transport.
•	High liquefaction potential and areas of combined earthquake hazard.		
•	Lack of reticulated stormwater and wastewater infrastructure.		
•	Safety issues with the Beach Road intersection.		
•	Significant alteration of existing neighbourhood character.		
•	Complex topography.		
•	Increased coastal hazard associated with climate change.		

Qualifying matter Applic Notes				
Qualifying matter	Applic	Notes		
	able?			
Natural character in the coastal environment	•	High natural character at the coastal margin.		
Wetlands, lakes, rivers and their margins	•	Stream passes through the southern extent of the area.		
Outstanding natural features and landscapes				
Significant indigenous vegetation and significant habitats of				
indigenous fauna				
Relationship of Māori and their culture and their traditions with	•	Adjacent urupā site.		
their ancestral lands, water, sites, wāhi tapu and other taonga				
Historic heritage	•	Several listed heritage buildings located throughout the area.		
Significant risk from flood hazard	•	Some areas of flood hazard.		
Significant risk from earthquake hazard	•	Some areas of high combined earthquake hazard.		
Significant risk from coastal hazard	•	Proximity to the coastal edge.		
Nationally significant infrastructure	•	Proximity to the railway line and state highway.		
Public open space	•	One public open space located within the area.		
Designations	•	State highway, railway corridor and school designations.		
Business land for low density uses	1			

Criteria	Observations	Rating
Mana whenua	Paekakariki urupā is located to the south of the area.	
	There are a number of archaeological sites associated with middens located throughout the area.	
Urban form	Increase in building height and density may be appropriate in the area around Beach Road and the railway	
	station, and may assist in improving the legibility of Beach Road as a local centre.	
Local	The full extent of the area is located within the Paekakariki Special Character Area.	
neighbourhoods	• The local centre zone around Beach Road is defined by a mix of one, two and three storey buildings with a mix	
	of uses.	
	• The majority of the residential area is influenced by the dune system on which the area is built. Existing buildings	
	are integrated into the topography, and are predominantly single storey with some two storey dwellings.	
	Intensification up to six storeys is likely to significantly alter the existing character of the neighbourhood.	
Activity centres	• There are a small number of commercial activities and community services located within area. Intensification	
	within the area is likely to support existing commercial activity.	
	• Services such as supermarkets and high schools are not located in the area, and require trips to Paraparaumu.	
	There is a primary school located within the area.	
	The area is relatively distant to Paraparaumu metropolitan centre.	
Residential	Intensification in the area could contribute to dwelling supply.	
development	• Access to local amenity and proximity to the railway station could encourage a range of dwelling typologies and	
	densities.	
Business land	There is no General Industrial zoned land in the area.	
Transport	• Intensification in the area will put additional pressure on the Beach Road intersection with SH1. This intersection	
networks	is currently congested and has safety issues, however congestion at this intersection is likely to reduce following	
	the opening of Transmission Gully.	
	Intensification in the area will put additional pressure on the level railway crossing at Beach Road.	
	The area has good access to public transport at Paekakariki station.	

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Criteria	Observations	Rating
Infrastructure	Water reticulation is generally integrated into the existing street network.	
and servicing	• There are limited areas of stormwater reticulation integrated in to the street network. The majority of stormwater	
	in the area discharges directly in to the coastal marine area.	
	Lack of stormwater reticulation may require on-site solutions.	
	There is no existing reticulated waste water at Paekakariki. New development would require a new reticulated	
	network, piped up to the existing waste water treatment facility at Otaihanga. This may trigger requirements to	
	upgrade the existing plant at Otaihanga.	
	On-site solutions for wastewater may be possible, although this may significantly reduce development density.	
Natural	There are no mapped ecological sites located within the area.	
ecosystem		
values		
Water bodies	A stream passes through the southern extent of the area.	
Landscape and	There is a small public open space located on the corner of Robertson Road and Wellington Road.	
open space	Intensification may increase demand for functional open space.	
values	The area has good access to coastal open space.	
	• The underlying dune topography and the steep hills to the east influence the landscape character of the area.	
	There are a number of notable trees located within the area.	
	• There are no special amenity landscapes identified within the area, although the coastal edge adjacent to the	
	area is identified as an area of high natural character.	
Heritage values	There are a number of listed heritage buildings within the area.	
	The railway sheds adjacent to the area is identified as a heritage area.	
	There are a number of archaeological sites associated with middens located throughout the area.	
Topography	• The area is relatively undulating, and there are areas of steep topography on the coastal side of the area.	
Natural hazards	There is an area of flood ponding located to the west of the railway station.	
and land risks	The entire area is subject to high liquefaction potential.	
(including effects	There are a number of areas of high combined earthquake hazard located throughout the area.	
of climate	• The area adjacent to the coast is likely to be subject to increased natural hazard risk associated with climate	
change)	change.	
Land use	Potential for reverse sensitivity associated with the railway line and the state highway.	
compatibility	Potential for reverse sensitivity effects on the school.	
	• There are designations associated with the railway corridor, state highway and school located in the area.	
Climate change	Intensification in the area would have reasonable access to some commercial activities, and good access to	
(low-carbon	public open space, public transport and coastal amenity. This could reduce short vehicle trips.	
futures)	The area is relatively distant to Paraparaumu metropolitan centre and railway station. This may promote private vehicle commuting.	

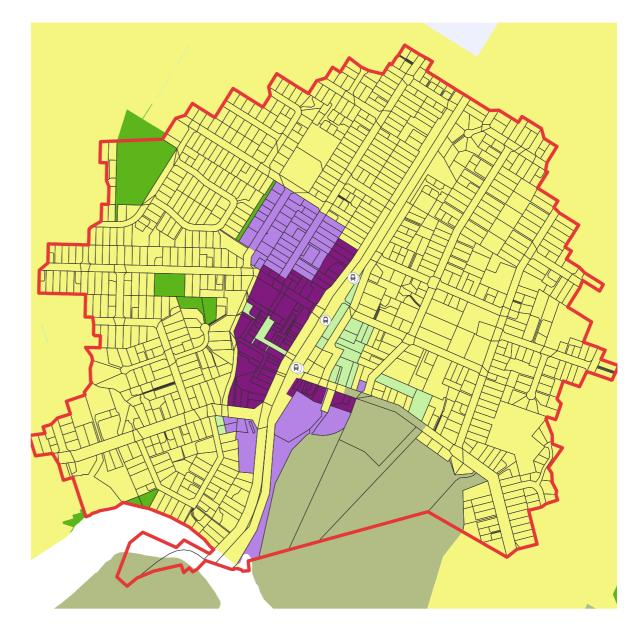
#### **KAPITI COAST INTENSIFICATION** Paekakariki Local Centre and Railway Station

## WAIKANAE TOWN CENTRE

AERIAL



#### ZONING



Railway Station Urban Intensification Study Areas Natural Open Space Zone General Residential Zone Rural Production Zone Town Centre Zone

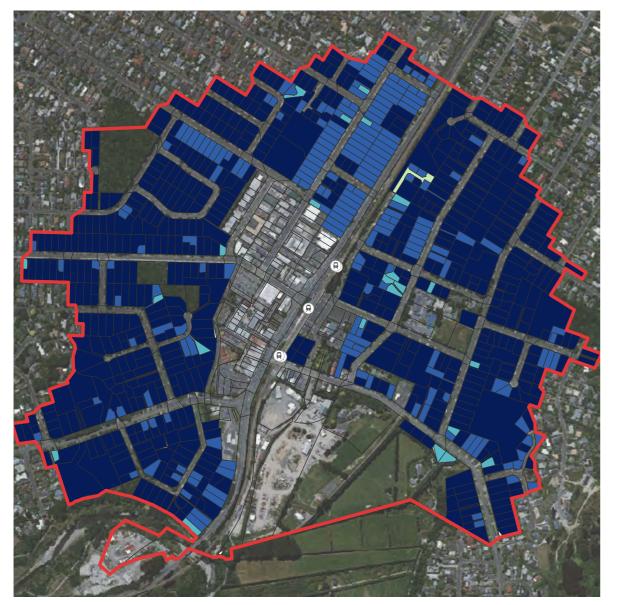
General Industrial Zone Open Space Zone Waikanae North Development Area



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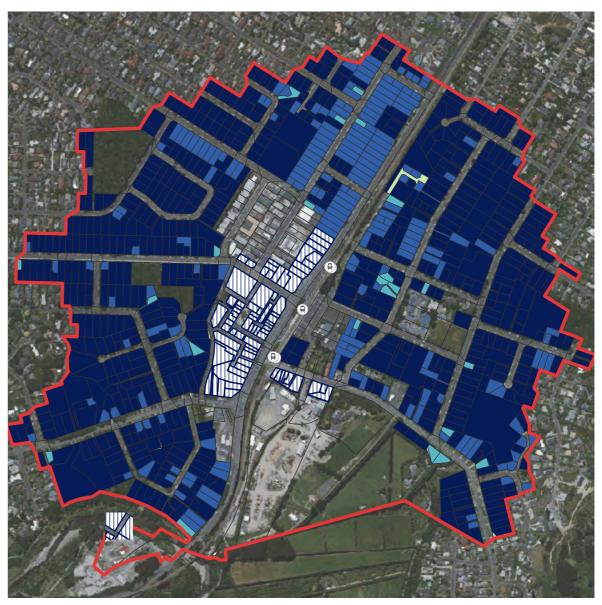


#### **KAPITI COAST INTENSIFICATION** Waikanae Town Centre



SITE WIDTH	EXISTING # RESIDENTIAL UNITS		AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.05	20	1
6.5m - 11m		3	0.16	30	5
11m - 14.5m		4	1.32	40	53
14.5m - 18m		5	14.38	50	719
18m <		6	67.97	60	4,078
	761		83.87		4,856
Additional dwell	ings (yield minus e	xisting resident	al units)		4,095

#### **YIELD IN RESIDENTIAL + TOWN CENTRE ZONE**



	SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
	< 6.5m		up to 2	0.05	20	1
	6.5m - 11m		3	0.16	30	5
	11m - 14.5m		4	1.32	40	53
	14.5m - 18m		5	14.38	50	719
	18m <		6	67.97	60	4,078
	Town centre zone		6	5.14	60	308
		761		89.01		5,164
-	Additional dwellings	(yield minus exist	ting residential ι	inits)		4,403



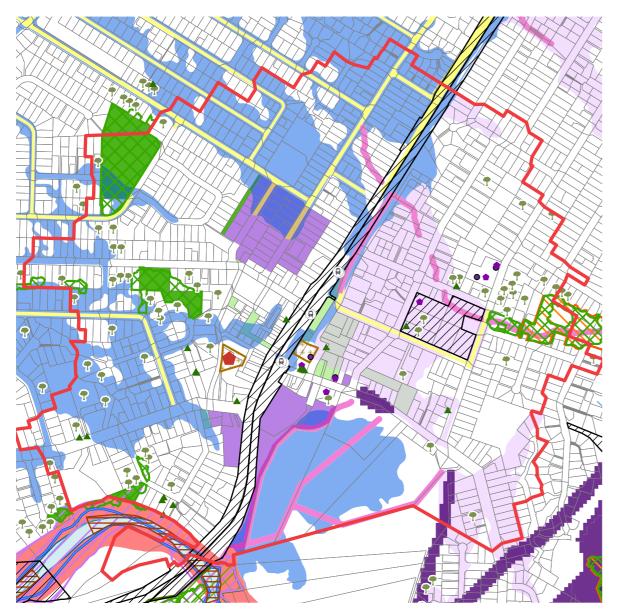
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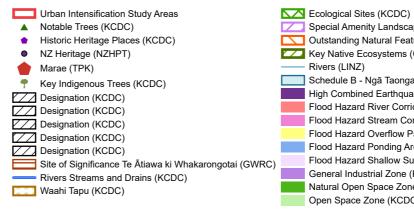
#### **KAPITI COAST INTENSIFICATION** Waikanae Town Centre

## WAIKANAE TOWN CENTRE

#### POTENTIAL QUALIFYING MATTERS



Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.





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Special Amenity Landscapes (KCDC) Outstanding Natural Features and Landscapes (KCDC) Key Native Ecosystems (GWRC) Schedule B - Ngā Taonga Nui a Kiwa (GWRC) High Combined Earthquake Hazard (GWRC) Flood Hazard River Corridor (KCDC) Flood Hazard Stream Corridor (KCDC) Flood Hazard Overflow Path (KCDC)

Flood Hazard Ponding Area (KCDC)

Flood Hazard Shallow Surface Flow (KCDC)

General Industrial Zone (KCDC)

Natural Open Space Zone (KCDC)

Open Space Zone (KCDC)

#### **KAPITI COAST INTENSIFICATION** Waikanae Town Centre

UI-WA (Waikanae Town Centre)					
Locality Waikanae					
Location	The area around the Waikanae Town Centre on both sides of Main Road/the railway line				
Extent Approximate 400m walking distance from the Waikanae Town Centre zone and an approximate 800m walking distance from the Waikanae Railway Station.					

Key constraints		Ke	Key opportunities		
٠	Coordinating intensification with low-density industrial land.	•	Opportunity to improve the legibility and vibrancy of the Waikanae		
•	Flood hazard.		town centre through intensification.		
•	Steeper topography in the eastern extent of the area.	•	Proximity to rapid transit.		
		•	Good access to a range of commercial activities, community		
			services, employment and public open spaces.		

Potential qualifying matters (refer methodology for explanation and limitations)					
Qualifying matter	Applic able?	Notes			
Natural character in the coastal environment					
Wetlands, lakes, rivers and their margins	•	The margins of the Waikanae river run along the southern extent of the area.			
Outstanding natural features and landscapes	•	ONL associated with Hemi Matenga Memorial Park in the eastern extent of the area.			
Significant indigenous vegetation and significant habitats of indigenous fauna	•	Numerous ecological sites and key indigenous trees located throughout the area.			
Relationship of Māori and their culture and their traditions with their ancestral lands, water, sites, wāhi tapu and other taonga	•	Whakarongotai marae and Ruakohatu urupā.			
Historic heritage	•	Several listed buildings located in the east of the area.			
Significant risk from flood hazard	•	Areas of ponding, shallow surface flow, overland flow and stream corridors.			
Significant risk from earthquake hazard	•	Small areas of high combined earthquake hazard around Elizabeth Street.			
Significant risk from coastal hazard					
Nationally significant infrastructure	•	The railway line runs through the area.			
Public open space	•	Several public open spaces located throughout the area.			
Designations	•	School and rail corridor designations.			
Business land for low density uses	•	General Industrial zoned land to the north and south of the Town Centre.			

Criteria	Observations	Rating
Mana whenua	Whakarongotai marae is located on Marae Lane to the west of the Town Centre.	
	There is a wahi tapu site associated with the Whakarongotai marae.	
	<ul> <li>There is a wahi tapu site associated with Ruakohatu urupa to the north of Elizabeth Street.</li> </ul>	
lwi development	• The Waikanae Station park and ride car park (to the west of the station) is identified as Māori freehold land.	
Urban form	<ul> <li>Increased height and building density could be appropriate within and around the Town Centre zone.</li> </ul>	
	<ul> <li>Increased density of urban form will improve the legibility of the area as the centre of Waikanae.</li> </ul>	
	A cohesive response to density around the town centre may be challenged by the low density uses associated	
	with the General Industrial zoned land to the north and south of the town centre.	
Local	• The area within the town centre itself is defined by a mix of single and two storey commercial buildings within the	
neighbourhoods	Town Centre Zone, low density single and two storey industrial/commercial buildings located to the north and	
	south of the Town Centre.	
	The residential area to the west and north of the Town Centre is predominantly defined by single storey	
	residential dwellings.	
	<ul> <li>The residential area to the east of the Town Centre is predominantly defined by single storey residential</li> </ul>	
	dwellings, which are increasingly integrated in to the landscape as the topography becomes steeper towards the west.	
	• Intensification could improve the existing neighbourhood environment within the existing Town Centre zone.	
	<ul> <li>Intensification could alter existing residential neighbourhood environments around the Town Centre, given their existing low-density scale of built form.</li> </ul>	
Activity centres	The area has good access to range of commercial activities and community services, including shops, cafes and	
	entertainment, supermarkets, schools, and other community facilities.	
	The General Industrial areas function as centres of employment.	
	<ul> <li>Intensification could support existing commercial and community activity within the town centre.</li> </ul>	
Residential	<ul> <li>Intensification in the area could contribute significantly to dwelling supply.</li> </ul>	
development	High levels of access to commercial activities and community services could encourage the development of	

Criteria	Observations	Rating
Business land	There is General Industrial zoned land located to the north and south of the town centre. Residential	
	intensification may put pressure on these uses to relocate elsewhere.	
Transport	• The existing intersection at Elizabeth Street and Main Road is already constrained, and intensification to the east	
networks	of the railway line could put further pressure on this intersection.	
	The area is within a walkable catchment of the Waikanae railway station.	
Infrastructure	<ul> <li>Water and wastewater reticulation is generally integrated into the existing street network.</li> </ul>	
and servicing	Stormwater reticulation is generally integrated into the street network although there are a number of streets	
	without reticulation. Stormwater in the southern extent of the area discharges into the Waikanae river. In the	
	northern extent of the area stormwater discharges through Ngā Manu reserve towards the Ngarara stream.	
	Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or	
	pipes and pump stations between the area and the plant.	
Natural	<ul> <li>There are several ecological sites located in the eastern and western extents of the area.</li> </ul>	
ecosystem	<ul> <li>There are numerous listed indigenous trees located throughout the area.</li> </ul>	
values		
Water bodies	The Waikanae river runs along the southern extent of the area.	
	• A stream associated with the stormwater network runs through the northern extent of the area and discharges in	
	to the Ngarara stream.	
	Reticulated stormwater discharges in to the Waikanae river and Ngarara streams, so intensification within the	
	area could increase discharges to these waterbodies.	
Landscape and	There are several public open spaces located throughout the area. Open spaces in the west of the area are	
open space	generally conservation open spaces. There is a civic open space located within the existing town centre. There	
values	is an open space including sports facilities and playground located on Elizabeth Street.	
	There is an Outstanding Natural Landscape associated with Hemi Matenga Memorial Park located at the     sectors subtract of the same	
	eastern extent of the area.	
11	There are several notable trees located throughout the area.	
Heritage values	There are several listed heritage buildings located in the east of the area, around Elizabeth Street, Seddon	
	Street and Winiata Ave.	
Tomorranhu	There are several notable trees located throughout the area.	
Topography	The area to the west of the railway line is largely flat.	
	The area to the east of the railway line progressively increases in slope to the east.	
Natural hazards	• Flood hazard is identified in a number of locations throughout the area. This is comprised of ponding areas,	
and land risks	shallow surface flow, overland flow paths and stream corridors.	
(including effects of climate	There are some areas of high combined earthquake hazard located to the south of Elizabeth Street.	
change)	<ul> <li>There are sites on the SLUR located on both sides of Main Road in the southern extent of the area.</li> </ul>	
Land use	Potential for reverse sensitivity effects on the railway line.	
compatibility	<ul> <li>Potential for reverse sensitivity effects on industrial land uses.</li> </ul>	
	<ul> <li>Potential for reverse sensitivity effects on the school.</li> </ul>	
	<ul> <li>A school designation and the rail corridor designation run through the area.</li> </ul>	
Climate change	<ul> <li>Intensification in the area would have good access a range of community services, commercial activities, shops,</li> </ul>	
(low-carbon	• Intensincation in the area would have good access a range of community services, commercial activities, shops, employment and public open space.	
futures)	<ul> <li>The area has good access to active modes along Main Road.</li> </ul>	
	<ul> <li>The area is within a walkable catchment of the Waikanae Railway station.</li> </ul>	
	<ul> <li>Intensification in the area could promote reduced-emission choices.</li> </ul>	
	<ul> <li>Good access to community services, commercial activities and other amenity may encourage the development</li> </ul>	
	<ul> <li>Good access to community services, commercial activities and other amenity may encourage the development of more energy efficient, higher density dwelling typologies.</li> </ul>	





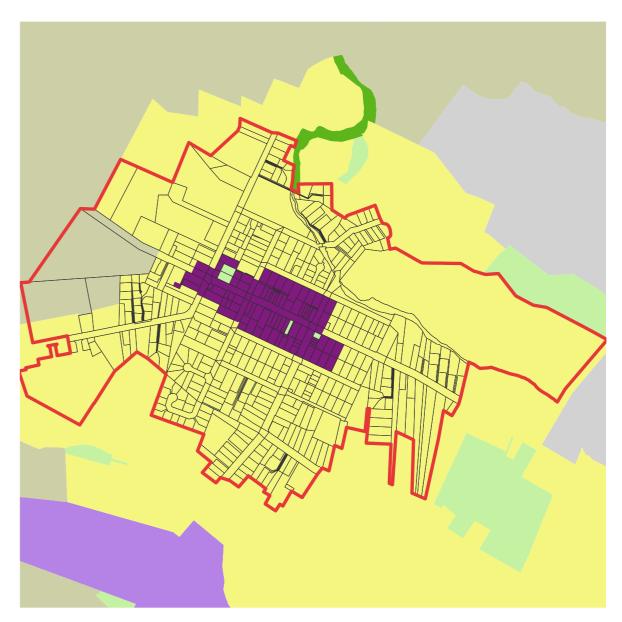
#### **KAPITI COAST INTENSIFICATION** Waikanae Town Centre

## **ŌTAKI MAIN STREET/MILL ROAD**

#### AERIAL



#### ZONING



General Residential Zone General Rural Zone Town Centre Zone

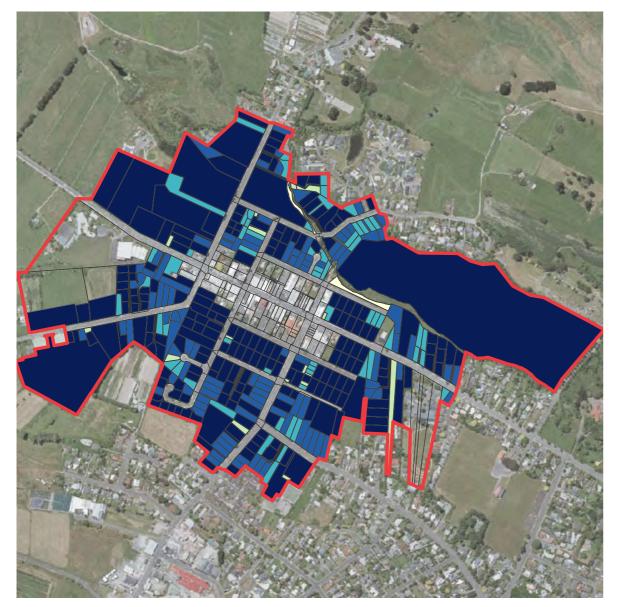
Urban Intensification Study Areas General Industrial Zone Natural Open Space Zone Open Space Zone Future Urban Zone



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#### **KAPITI COAST INTENSIFICATION** Ōtaki Main Street/Mill Road



SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.32	20	6
6.5m - 11m		3	0.84	30	25
11m - 14.5m		4	4.35	40	174
14.5m - 18m		4	8.13	40	325
18m <		4	45.19	40	1,808
	495		58.84		2,338
Additional dwell	ings (yield minus e	xisting resident	ial units)		1,843

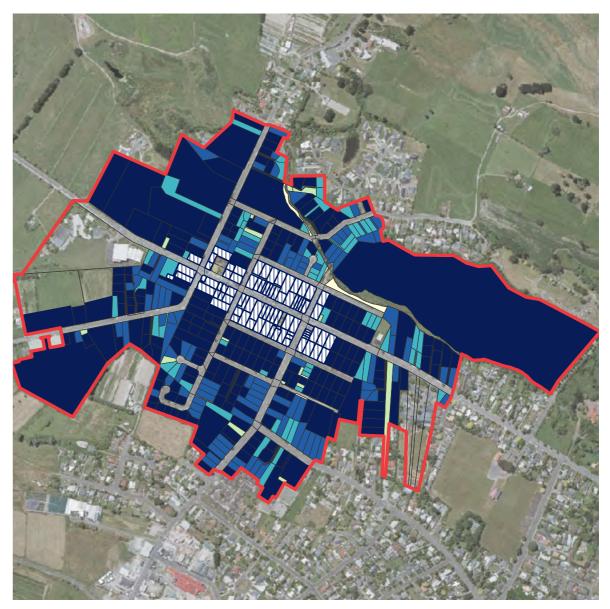
Additional dwellings (yield minus existing residential units)					

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#### YIELD IN RESIDENTIAL + TOWN CENTRE ZONE



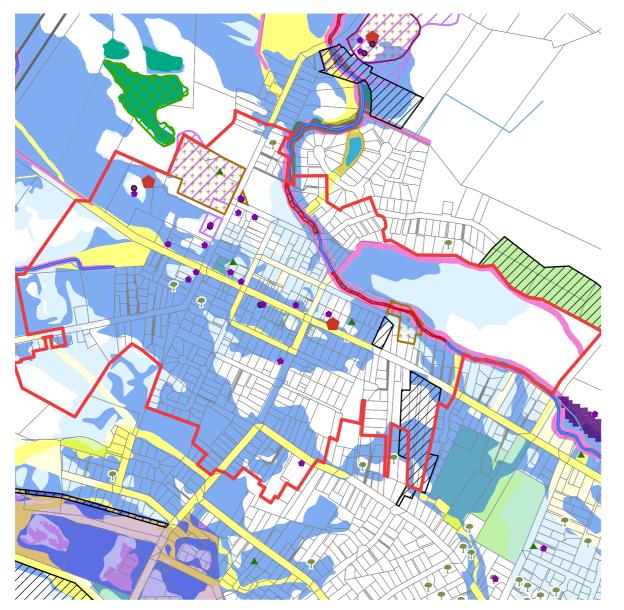
	SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
	< 6.5m		up to 2	0.32	20	6
	6.5m - 11m		3	0.84	30	25
	11m - 14.5m		4	4.35	40	174
	14.5m - 18m		4	8.13	40	325
	18m <		4	45.19	40	1,808
$\mathbb{R}$	Town centre		6	4.65	60	279
		495		63.49		2,617
	Additional dwell	ings (yield minus e	xisting resident	ial units)		2,122

SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD	
< 6.5m		up to 2	0.32	20	6	
6.5m - 11m		3	0.84	30	25	
11m - 14.5m		4	4.35	40	174	
14.5m - 18m		4	8.13	40	325	
18m <		4	45.19	40	1,808	
Town centre		6	4.65	60	279	
495 63.49 2,617						
Additional dwell	ings (yield minus e	xisting resident	ial units)		2,122	

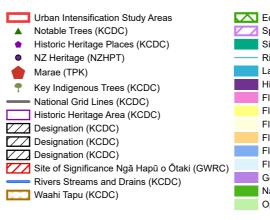
#### **KAPITI COAST INTENSIFICATION** Ōtaki Main Street/Mill Road

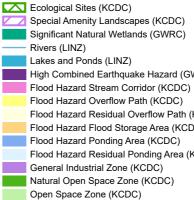
## **ŌTAKI MAIN STREET/MILL ROAD**

#### POTENTIAL QUALIFYING MATTERS



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High Combined Earthquake Hazard (GWRC) Flood Hazard Residual Overflow Path (KCDC) Flood Hazard Flood Storage Area (KCDC) Flood Hazard Residual Ponding Area (KCDC)

#### **KAPITI COAST INTENSIFICATION** Ōtaki Main Street/Mill Road

UI-ŌT-1 (Ōtaki Main Street/Mill Road)					
Locality	Ōtaki				
Location	Ōtaki Main Street/Mill Road				
Extent	Approximate 400m walking distance from the Ōtaki Main Street Town Centre Zone				

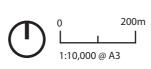
Key constraints	Ke	ey opportunities
Infrastructure, particularly a constrained v	vater supply.	Good access to local services.
Extensive flood hazard.	•	Intensification could support existing and new activities and services
Historic heritage.		on Main Street/Mill Road.
Wāhi tapu.	•	Relatively flat.
<ul> <li>Poor access to public transport.</li> </ul>		
<ul> <li>Discharges to Haruātai stream.</li> </ul>		

Qualifying matter	Applic able?	Notes
Natural character in the coastal environment		
Wetlands, lakes, rivers and their margins	•	The Haruātai stream passes through the area.
Outstanding natural features and landscapes		
Significant indigenous vegetation and significant habitats of indigenous fauna		
Relationship of Māori and their culture and their traditions with their ancestral lands, water, sites, wāhi tapu and other taonga	•	Three wāhi tapu sites (two urupā and a monument). Two marae sites. A number of Māori freehold land blocks.
Historic heritage	•	There are a large number of listed heritage buildings located in the area.
Significant risk from flood hazard	•	Extensive flood hazard.
Significant risk from earthquake hazard		
Significant risk from coastal hazard		
Nationally significant infrastructure		
Public open space	•	There are a number of small civic open spaces integrated into Main Street/Mill Road.
Designations	•	School designation and telecommunications designation.
Business land for low density uses		

Criteria	Observations	Rating
Mana whenua	There are two urupā wāhi tapu sites located within the area.	
	<ul> <li>The Haruātai stream is recognised as a site of significance to Ngā Hapū o Ōtaki.</li> </ul>	
	There are two marae identified in the area.	
lwi development	There are several Māori freehold land blocks located within the area.	
	Te Wānanga o Raukawa campus is located on the western edge of the area around Tasman Road.	
Urban form	<ul> <li>Increased building height and density could be appropriate around Main Street/Mill Road, which is the main thoroughfare.</li> </ul>	
	• It is likely more appropriate to prioritise intensification around old State Highway 1 prior to this area, due to the proximity of that area to current and future transport links.	
Local neighbourhoods	Main Street/Mill Road is defined by predominantly by single story buildings, with some two storey buildings. The blocks to the north and south of Mill Road are predominantly single storey dwellings.	
-	<ul> <li>Main Street/Mill Road appears to have a distinct character based on the scale and appearance of existing buildings and open spaces that would likely be altered by intensification.</li> </ul>	
	<ul> <li>Intensification in the area beyond two storeys could significantly alter the character of the existing neighbourhood.</li> </ul>	
	The area is not within an established Special Character Area.	
Activity centres	There is a good variety of activity around Mill Road, including a museum, library, medical centre, churches, schools and supermarkets.	
Residential	Intensification in the area could contribute modestly to dwelling supply.	
development	Low access to public transport may limit the development of higher density typologies.	
Business land	There is no General Industrial zoned land within the area.	
	Existing business uses are likely to be supported by residential intensification.	
Transport	Significant growth may put pressure on existing east-west connectivity across Ōtaki.	
networks	• While there is no dedicated cycleway, Ōtaki railway station is accessible by active modes along Mill Road.	
	There is an existing bus route that runs along Mill Road, however all areas in Ōtaki have poor access to regional public transport.	

Criteria	Observations
Infrastructure	Reticulated water supply is generally integrated int
and servicing	Storm water reticulation is only integrated into key
	<ul> <li>Intensification in Ōtaki may trigger town-wide upgr</li> </ul>
	<ul> <li>Intensification in Ōtaki may put pressure on alread</li> </ul>
	stations.
Natural	There are three identified key indigenous trees loc
ecosystem	• There are no ecological sites identified in the area.
values	
Water bodies	The Haruātai stream runs through the area, to the
	stormwater appears to discharge into this stream,
	water directly to the stream.
Landscape and	There are a number of small civic open spaces inter-
open space	There are no playgrounds located in the area.
values	The area around the church, urupā and monumen
	landscapes.
	<ul> <li>There are a number of notable trees identified in the second secon</li></ul>
	Ōtaki Domain is relatively accessible to the area.
Heritage values	There are a significant number of heritage listed by
	Rauparaha Street.
	<ul> <li>There is an archaeological site associated with a c</li> </ul>
	Street.
Topography	The area is relatively flat.
Natural hazards	The majority of the area is covered by flood hazard
and land risks	associated with Main Street/Mill Road and the Har
(including effects	<ul> <li>There are four sites identified on the SLUR in the a</li> </ul>
of climate	
change) Land use	The eviction echoel may be considered at the
	The existing school may be sensitive to residential
compatibility	There is a school designation and telecommunicat
Climate change	Intensification in the area would have direct access
(low-carbon	services, schools and open spaces.
futures)	<ul> <li>Poor access to regional public transport may incre</li> </ul>



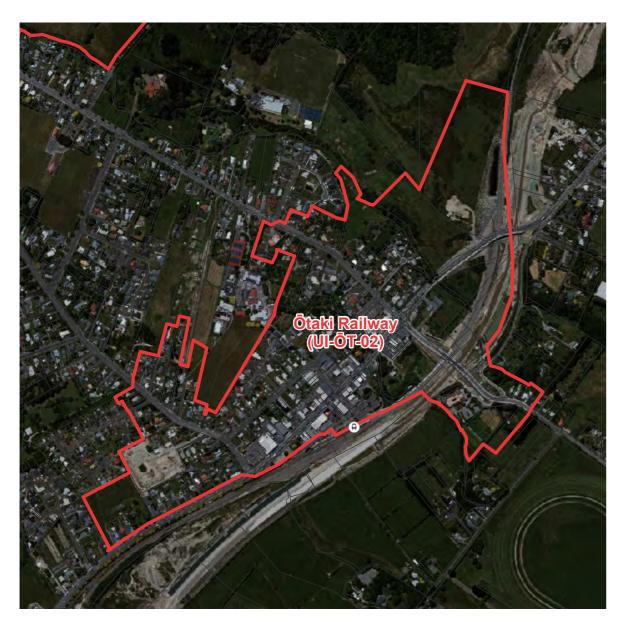


	Rating
o the existing street network.	
streets such as Main Street/Mill Road and Aotaki Street.	
ades to the water supply, particularly reservoir storage.	
y constrained wastewater reticulation networks and pump	
ated in the area.	
north of Mill Road and Raukawa Street. Reticulated	
so intensification within the area could increase discharges of	
egrated into Main Street/Mill Road.	
t on Te Rauparaha Street are recognised as special amenity	
ne area.	
uildings located on Main Street/Mill Road and on Te	
olonial hotel located on the corner of Mill Road and Aotaki	
d. This is comprised of ponding areas, overland flow paths	
uātai stream corridor.	
area.	
intensification in close proximity.	
ions designation located in the area.	
s to a wide range of commercial activities, community	
ase reliance on private vehicle transport.	

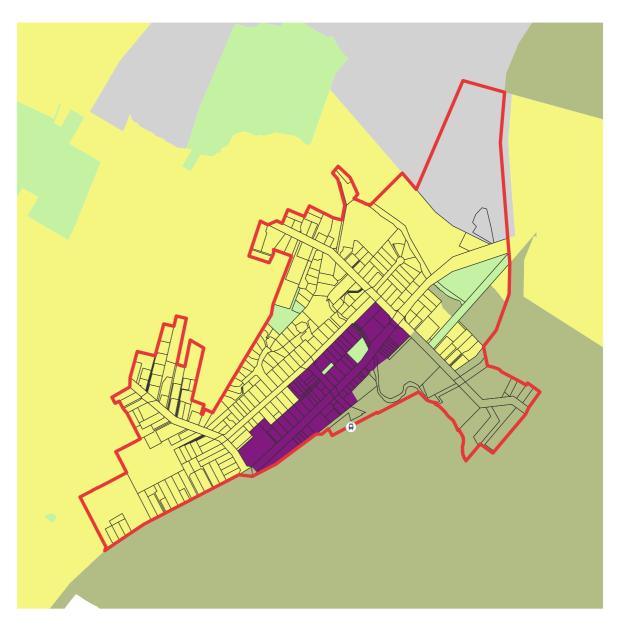
#### **KAPITI COAST INTENSIFICATION** Ōtaki Main Street/Mill Road

## **ŌTAKI RAILWAY**

AERIAL



#### ZONING



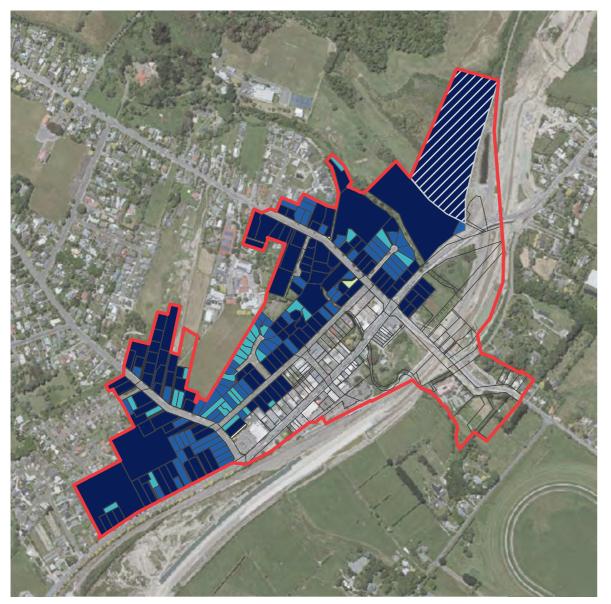
Railway Station Urban Intensification Study Areas General Residential Zone Rural Production Zone Town Centre Zone Open Space Zone Future Urban Zone



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#### **KAPITI COAST INTENSIFICATION** Ōtaki Railway

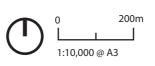


< 6.5m	SITE WIDTH	EXISTING # RESIDENTIAL UNITS		AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
	< 6.5m		up to 2	0.05	20	1
	6.5m - 11m		3	0.05	30	2
11m - 14.5m 4 1.87 40 75	11m - 14.5m		4	1.87	40	75
14.5m - 18m 4 4.62 40 185	14.5m - 18m		4	4.62	40	185
18m < 4 20.19 40 808	18m <		4	20.19	40	808

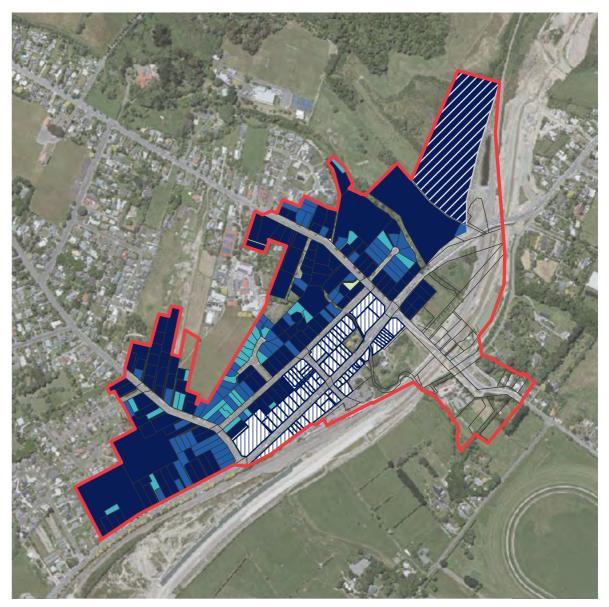
216 26.79 1,070	Additional dwellings (yield minus exis	854	
	216	26.79	1,070



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#### YIELD IN RESIDENTIAL + TOWN CENTRE ZONE

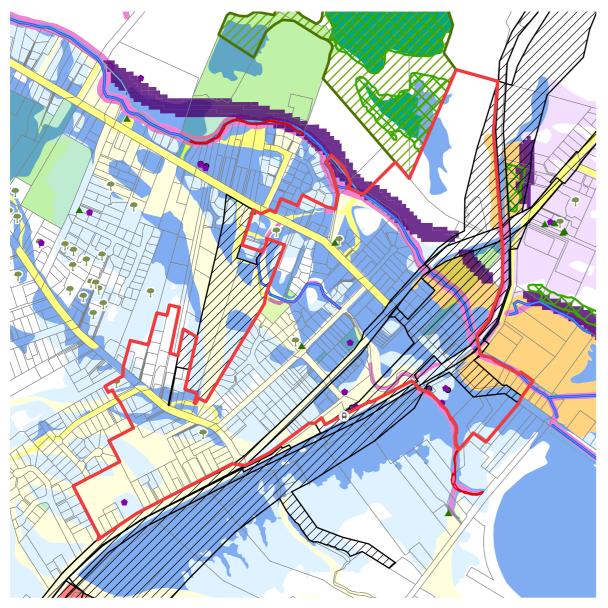


	SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
	< 6.5m		up to 2	0.05	20	1
	6.5m - 11m		3	0.05	30	2
	11m - 14.5m		4	1.87	40	75
	14.5m - 18m		4	4.62	40	185
	18m <		4	20.19	40	808
	Future urban zone	e (excluded from cal	culation, refer se	parate Greenf	ield assessme	ent)
$\mathbf{N}$	Town Centre		6	4.8	60	288
		216		31.59		1,358
	Additional dwelli	ings (yield minus e	existing resident	ial units)		1,142

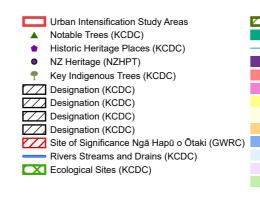
## **KAPITI COAST INTENSIFICATION** Ōtaki Railway

## **ŌTAKI RAILWAY**

#### POTENTIAL QUALIFYING MATTERS



Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.







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Flood Hazard Residual Overflow Path (KCDC) Flood Hazard Flood Storage Area (KCDC) Flood Hazard Residual Ponding Area (KCDC) Flood Hazard Shallow Surface Flow (KCDC)

#### **KAPITI COAST INTENSIFICATION** Ōtaki Railway

UI-ŌT-2 (Ōtaki Railway)			
Locality Ōtaki			
Location Ötaki Railway Station			
Extent Approximate 400m walking distance from the Ōtaki Railway Town Centre Zone			

Key constraints			y opportunities		
٠	Infrastructure, particularly a constrained water supply.	•	Good access to local services.		
•	Extensive flood hazard.	•	Intensification could support existing and new activities and services		
•	Earthquake hazard and liquefaction.		around old SH1.		
•	Poor access to public transport.	•	Improve existing neighbourhood character, particularly the		
•	Discharges to Haruātai stream.		pedestrian environment around old SH1.		

Potential qualifying matters (refer methodology for explana	otential qualifying matters (refer methodology for explanation and limitations)					
Qualifying matter	Applic able?	Notes				
Natural character in the coastal environment						
Wetlands, lakes, rivers and their margins	•	The Haruatai stream and a tributary drain pass through the area.				
Outstanding natural features and landscapes						
Significant indigenous vegetation and significant habitats of indigenous fauna						
Relationship of Māori and their culture and their traditions with their ancestral lands, water, sites, wāhi tapu and other taonga	•	There are two large Māori freehold land block located in the area.				
Historic heritage	•	There are a small number of listed heritage buildings.				
Significant risk from flood hazard	•	Extensive flood hazard.				
Significant risk from earthquake hazard	•	High combined earthquake hazard to the north of the Haruātai Steam.				
Significant risk from coastal hazard						
Nationally significant infrastructure	•	The railway line runs through the area.				
Public open space	•	There are a number of public open spaces located in the area.				
Designations	•	Expressway designation, railway designation and high school designation.				
Business land for low density uses						

Criteria	Observations	Rating
Natural	There are five identified key indigenous trees located in the area.	
ecosystem	There are no ecological sites identified in the area, although there is a key native ecosystem identified to the	
values	north of the area, around Haruatai park.	
Water bodies	• The Haruātai stream runs through the area, to the north of Mill Road. Some reticulated stormwater discharges to	
	this stream, so intensification within the area could increase discharges of water directly to the stream.	
	A tributary drain runs through the area around Dunstan Street into a stormwater management area off Jean Hing	
	Place. Reticulated stormwater discharges to this drain.	
Landscape and	There are several public open spaces located in the area.	
open space	<ul> <li>There is a small playground located at Centennial Park on Old State Highway 1.</li> </ul>	
values	There are no special amenity landscapes identified in the area.	
	There are a number of notable trees identified in the area.	
	Haruatai Park is relatively accessible to the area.	
Heritage values	There are a number of heritage listed buildings located in the area, including the Ōtaki Railway Station,	
	<ul> <li>There is an archaeological site associated with a house located to the north-east of the railway station.</li> </ul>	
Topography	The area to the south of the Harūatai stream is relatively flat.	
	The area to the north of the stream is relatively steep.	
Natural hazards	The area is extensively covered by flood hazard. This is comprised of ponding areas, flood storage areas,	
and land risks	overland flow paths and stream corridors. Some of this is residual.	
(including effects	The area to the north of the Harūatai stream is subject to high liquefaction potential.	
of climate	<ul> <li>There is an area to the north of the Harūatai stream subject to high combined earthquake hazard.</li> </ul>	
change)	There are a two sites identified on the SLUR in the area.	
Land use	<ul> <li>Intensification may have reverse sensitivity effects on the Expressway and railway corridor.</li> </ul>	
compatibility	Ōtaki College may be sensitive to intensification.	
	<ul> <li>Designations in the area are associated with the Expressway, the railway corridor and Otaki college.</li> </ul>	
Climate change	Intensification in the area would have direct access to a wide range of commercial activities, community	
(low-carbon	services, schools and open spaces.	
futures)	<ul> <li>Poor access to regional public transport may increase reliance on private vehicle transport.</li> </ul>	

Criteria	Observations	Rating
Mana whenua	• There are no mapped sites of significance identified in the area, however the Haruātai stream runs through the	
	northern extent of the area, and this is recognised downstream as a site of significance to Ngā Hapū o Ōtaki.	
lwi development	There are two large Māori freehold land blocks located in the east and north of the area.	
Urban form	<ul> <li>Increased building height and density could be appropriate in the area, particularly focussed on Old SH 1, the block back to Dunstan Street, the area around the intersection with Mill Road, and the area around the railway station.</li> </ul>	
Local neighbourhoods	The area is predominantly defined by low density, single storey commercial development located around Old SH1. The environment is relatively vehicle oriented and has little identifiable character. The area could be improved through intensification.	
	<ul> <li>The area to the north west of Dunstan Street and around Mill Road to the west of Old SH1 is defined predominantly by single storey dwellings. Intensification within this part of the are in the area beyond two storeys could alter the character of the existing neighbourhood.</li> <li>The area is not within an established Special Character Area.</li> </ul>	
Activity centres	<ul> <li>There is a good variety of activity within the area, including shops and local services, a supermarket and Ōtaki.</li> </ul>	
Residential	<ul> <li>Intensification in the area could contribute modestly to dwelling supply.</li> </ul>	
development	<ul> <li>Low access to public transport may limit the development of higher density typologies.</li> </ul>	
Business land	There is no General Industrial zoned land within the area.	
	Existing business uses are likely to be supported by residential intensification.	
Transport	The area has good access to the Expressway.	
networks	Ötaki railway station is located in the area (although services to Wellington do not extent do Ōtaki).	
	While there are bus routes that service the area, all areas in Otaki have poor access to regional public transport.	
Infrastructure	Water and wastewater reticulation is generally integrated into the existing street network.	
and servicing	There is storm water reticulation integrated into some streets including Dunstan Street, Waerenga Road, Mill Road, and part of Old State Highway 1. Old State Highway 1 has no stormwater reticulation south of Arthur Street	
	<ul> <li>Intensification in Ōtaki may trigger town-wide upgrades to the water supply, particularly reservoir storage.</li> <li>Intensification in Ōtaki may put pressure on already constrained wastewater reticulation networks and pump stations.</li> </ul>	





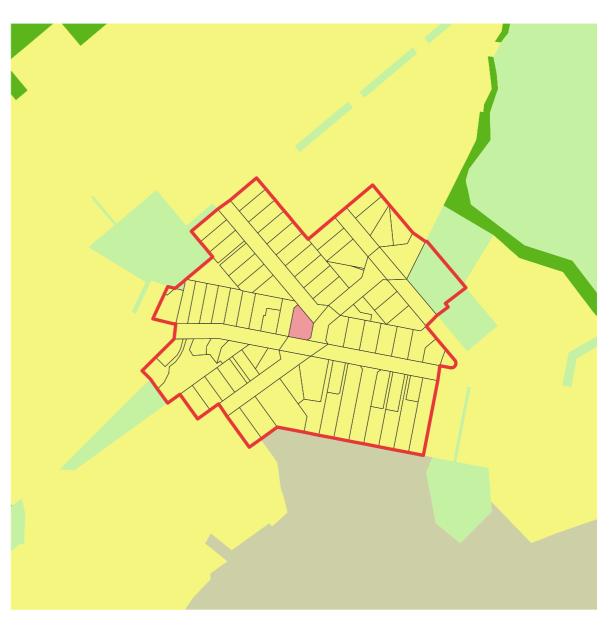
### **KAPITI COAST INTENSIFICATION** Ōtaki Railway

## WAIKANAE BEACH LOCAL CENTRE

AERIAL



ZONING



Urban Intensification Study Areas General Residential Zone General Rural Zone Local Centre Zone Natural Open Space Zone Open Space Zone

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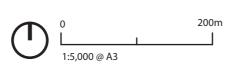
#### **KAPITI COAST INTENSIFICATION** Waikanae Beach Local Centre



SITE WIDTH	EXISTING # RESIDENTIAL UNITS		AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.16	20	3
6.5m - 11m		3	0.08	30	2
11m - 14.5m		4	1.08	40	43
14.5m - 18m		4	3.10	40	124
18m <		4	10.18	40	407
	176		14.60		580
Additional dwell	ings (yield minus e	xistina resident			404



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#### YIELD IN RESIDENTIAL + LOCAL CENTRE ZONE

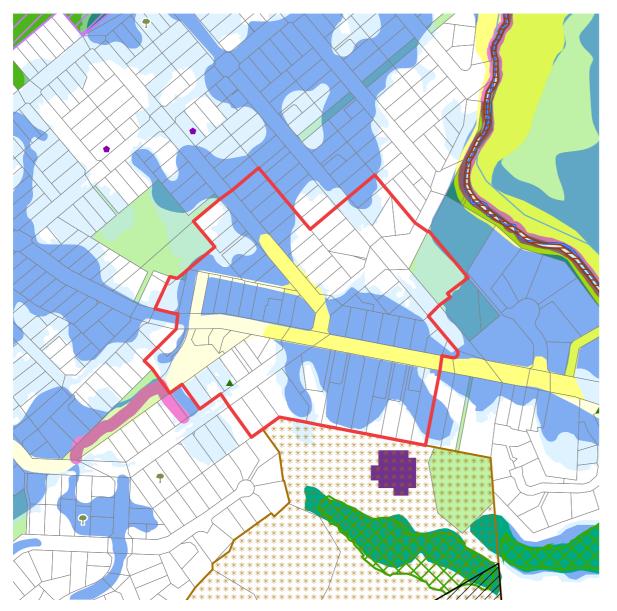


SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.16	20	3
6.5m - 11m		3	0.08	30	2
11m - 14.5m		4	1.08	40	43
14.5m - 18m		4	3.10	40	124
18m <		4	10.18	40	407
Local Centre		4	0.10	40	4
	176		14.70		584
Additional dwell	ings (yield minus e	xisting resident	ial units)		408

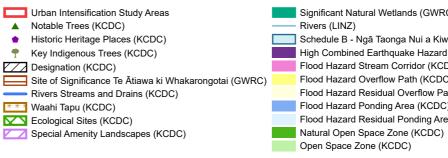
#### KAPITI COAST INTENSIFICATION Waikanae Beach Local Centre

## WAIKANAE BEACH LOCAL CENTRE

#### POTENTIAL QUALIFYING MATTERS



Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.





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Significant Natural Wetlands (GWRC)

- Schedule B Ngā Taonga Nui a Kiwa (GWRC)
- High Combined Earthquake Hazard (GWRC)
  - Flood Hazard Stream Corridor (KCDC)
  - Flood Hazard Overflow Path (KCDC)
  - Flood Hazard Residual Overflow Path (KCDC)
  - Flood Hazard Ponding Area (KCDC) Flood Hazard Residual Ponding Area (KCDC)

#### **KAPITI COAST INTENSIFICATION** Waikanae Beach Local Centre

UI-WB (Waikanae Beach Local Centre)				
Locality	Locality Waikanae Beach			
Location	The area around the intersection of Te Moana Road and Waimea Road			
Extent	Extent Approximate 200m walking distance from the Waikanae Beach Local Centre zone.			

Ke	Key constraints		Key opportunities		
٠	Poor access to a range of commercial activities and community	•	Opportunity to improve the legibility and vibrancy of the Waikanae		
	services.		Beach local centre through intensification.		
•	Extensive flood hazard.	•	Area is relatively flat.		
•	High liquefaction potential.				
•	Proximity to the Takamore wāhi tapu area.				

Potential qualifying matters (refer methodology for explanation and limitations)					
Qualifying matter	Applic able?	Notes			
Natural character in the coastal environment					
Wetlands, lakes, rivers and their margins					
Outstanding natural features and landscapes					
Significant indigenous vegetation and significant habitats of indigenous fauna					
Relationship of Māori and their culture and their traditions with their ancestral lands, water, sites, wāhi tapu and other taonga	•	The Takamore wahi tapu site is located to the south of the area.			
Historic heritage					
Significant risk from flood hazard	•	Extensive flood hazard.			
Significant risk from earthquake hazard					
Significant risk from coastal hazard					
Nationally significant infrastructure					
Public open space					
Designations					
Business land for low density uses					

Criteria	Observations	Rating
Natural ecosystem values	There are no ecological sites identified in the area.	
Water bodies	<ul> <li>There are no waterbodies that pass through the area.</li> <li>Reticulated stormwater discharges to the Waimea Lagoon and Waikanae Estuary, so intensification within the area could increase discharges to these waterbodies.</li> </ul>	
Landscape and open space values	<ul> <li>There are no open spaces located within the area, although the Rangihiroa street reserve is located to the northwest of the area.</li> <li>There are no special amenity landscapes identified in the area.</li> <li>There is one notable tree identified in the area.</li> <li>The area has good access to surround public open space an coastal open space.</li> </ul>	
Heritage values	There are no listed heritage items in the area.	
Topography Natural hazards and land risks (including effects of climate change)	<ul> <li>The area is relatively flat, aside from some areas of gentle dune mounding.</li> <li>The area is extensively covered by flood hazard. This is comprised of ponding areas and overland flow paths.</li> <li>The full extent of the area is subject to high liquefaction potential.</li> <li>The area relatively low lying and close to the coast, so may be subject to increased natural hazard risk associated with climate change.</li> <li>There is one SLUR site located on the eastern edge of the area.</li> </ul>	
Land use compatibility Climate change (low-carbon futures)	<ul> <li>There are no notable reverse sensitivity issues associated with the area.</li> <li>There are no designations in the area.</li> <li>Intensification in the area would have good access to open space, but poor access to other activities and community services. This will likely encourage private vehicle trips to access everyday services.</li> <li>The area has good access to active modes of transport associated with the Expressway.</li> <li>While the area is generally accessible to Waikanae railway station, distance from the station may encourage private vehicle commuting.</li> </ul>	

Criteria	Observations	Rating
Mana whenua	The Takamore wahi tapu area is located immediately to the south of the area.	
Urban form	The existing cluster of shops is not large, and difficult to distinguish from surrounding residential development. A moderate increase in building height and density may be appropriate in the area, and may assist in improving the legibility of the Waikanae Beach local centre.	
Local neighbourhoods	<ul> <li>The area is predominantly defined by single storey dwellings with larger yards.</li> <li>Intensification could alter the existing low density character of the area, although this may have benefits to the legibility and sense of activity around the existing local centre.</li> <li>The western half of the area is located within the Waikanae Beach Special Character Area.</li> </ul>	
Activity centres	<ul> <li>The existing shops within the local centre comprise a dairy and a cafe. Intensification could support the existing shops.</li> <li>The area has a low degree of access to commercial activities and community services (including schools), most of which are located in Waikanae or Paraparaumu.</li> </ul>	
Residential development	<ul> <li>Intensification in the area could contribute modestly to dwelling supply.</li> <li>Low access to commercial activities and community services may limit the development of higher density typologies.</li> </ul>	
Business land	<ul> <li>There is no General Industrial zoned land within the area.</li> <li>Existing business uses are likely to be supported by residential intensification.</li> </ul>	
Transport networks	<ul> <li>The area has immediate access to the Expressway via the adjacent interchange.</li> <li>There is an existing bus route that runs along Te Moana Road.</li> <li>There is reasonable access to Waikanae Station and town centre via active modes along Te Moana Road, although distance may result in vehicle trips to the station, putting pressure on park and ride facilities.</li> <li>Some parts of Te Moana Road include a cycle lane.</li> <li>The area has good access to active modes of transport associated with the Expressway.</li> <li>Some streets in the area have a footpath on only one side.</li> </ul>	
Infrastructure and servicing	<ul> <li>Water and wastewater reticulation is generally integrated into the existing street network.</li> <li>Stormwater reticulation is integrated into the street network to the west of the shops. This discharges in to the Waimea Lagoon and Waikanae Estuary.</li> <li>Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or pipes and pump stations between the area and the plant.</li> </ul>	

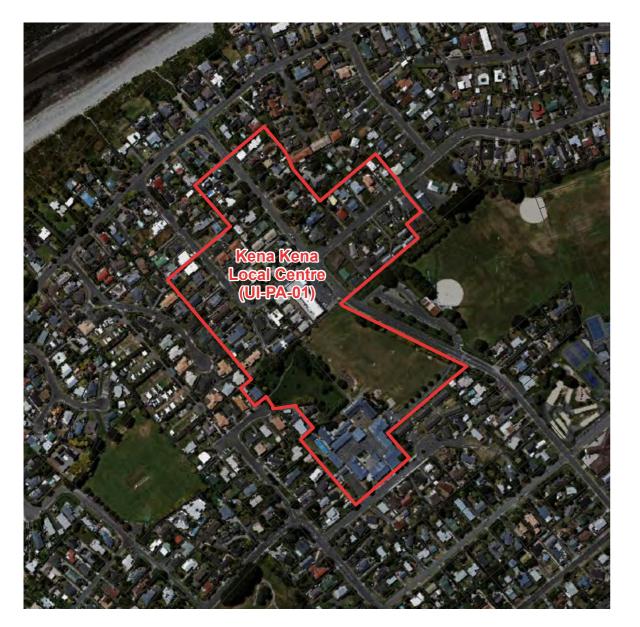




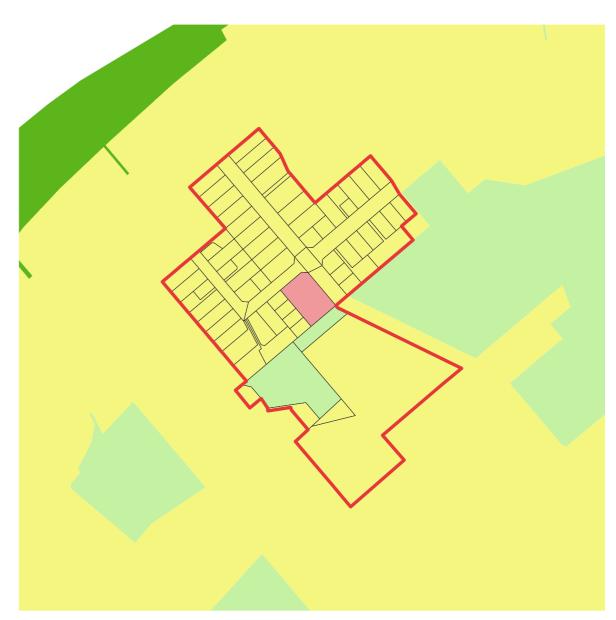
#### **KAPITI COAST INTENSIFICATION** Waikanae Beach Local Centre

## **KENA KENA LOCAL CENTRE**

AERIAL



ZONING



Urban Intensification Study Areas General Residential Zone Local Centre Zone Natural Open Space Zone Open Space Zone

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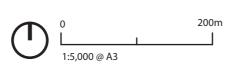
#### **KAPITI COAST INTENSIFICATION** Kena Kena Local Centre



SITE WIDTH	EXISTING # RESIDENTIAL UNITS		AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.00	20	0
6.5m - 11m		3	0.00	30	0
11m - 14.5m		4	0.03	40	1
14.5m - 18m		4	1.74	40	70
18m <		4	2.72	40	109
	82		4.50		180
Additional dwel	lings (yield minus e	existina resident	ial units)		98



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#### YIELD IN RESIDENTIAL + LOCAL CENTRE ZONE

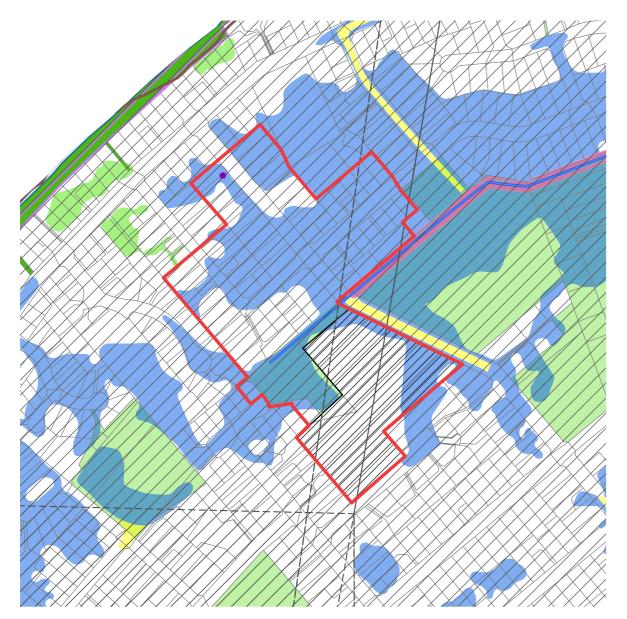


SITE WIDTH	EXISTING # RESIDENTIAL UNITS	•••••••	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.00	20	0
6.5m - 11m		3	0.00	30	0
11m - 14.5m		4	0.03	40	1
14.5m - 18m		4	1.74	40	70
18m <		4	2.72	40	109
Local Centre		4	0.27	40	11
	82		4.77		191
Additional dwell	ings (yield minus e	xisting resident	ial units)		109

#### KAPITI COAST INTENSIFICATION Kena Kena Local Centre

## **KENA KENA LOCAL CENTRE**

#### POTENTIAL QUALIFYING MATTERS

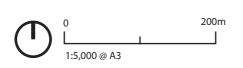


Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.





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Flood Hazard Stream Corridor (KCDC) Flood Hazard Overflow Path (KCDC) Flood Hazard Fill Control Area (KCDC) Flood Hazard Ponding Area (KCDC) Natural Open Space Zone (KCDC) Open Space Zone (KCDC)

#### **KAPITI COAST INTENSIFICATION** Kena Kena Local Centre

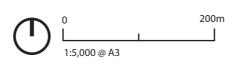
UI-PA-1 (Kena Kena Local Centre)					
Locality	Paraparaumu				
Location	Location The area around the Kena Kena shops on the corner of Ngapotiki Street and Te Kupe Road.				
Extent	Extent Approximate 200m walking distance from the Kena Kena local centre zone.				

Key constraints		Key opportunities		
Low lying land ne	ar the coast.	•	Opportunity to improve the legibility and vibrancy of the Kena Kena	
<ul> <li>Flood hazard.</li> </ul>			local centre through intensification.	
Distance from Pa	pararaumu station and metropolitan centre.	•	Excellent access to public and coastal open space.	
High liquefaction	potential.	•	The area is flat.	

Qualifying matter		c Notes		
Natural character in the coastal environment				
Wetlands, lakes, rivers and their margins				
Outstanding natural features and landscapes				
Significant indigenous vegetation and significant habitats of indigenous fauna	•	Potential effects of increased discharge on the Waikanae saltmarsh wetlands.		
Relationship of Māori and their culture and their traditions with their ancestral lands, water, sites, wāhi tapu and other taonga				
Historic heritage	•	Heritage listed building on Ngapotiki street.		
Significant risk from flood hazard	•	Flood ponding hazard to a significant extent of the area.		
Significant risk from earthquake hazard				
Significant risk from coastal hazard	•	Low lying area in close proximity to the coast.		
Nationally significant infrastructure				
Public open space	•	Public open space located to the north of the school, and Te Atiawa Park.		
Designations	•	School designation.		
Business land for low density uses				

Criteria	Observations				
Mana whenua	<ul> <li>There are no mapped sites of significance located within the area, although the area is upstream from the Waikanae saltmarsh wetlands, which is identified as a site of significance to Te Ātiawa ki Whakarongotai.</li> </ul>				
Urban form	<ul> <li>A moderate increase in building height and density may be appropriate in the area, and may assist in improving the legibility of the area around the shops as a local centre.</li> </ul>				
Local neighbourhoods	<ul> <li>Kāpiti island is visible from a number of streets in the area. Intensification may obstruct some local and private views of the island.</li> <li>Intensification could alter the existing low density character of the area, although this will be mitigated to some extent large adjacent open spaces (including Te Atiawa Park).</li> </ul>				
Activity centres	<ul> <li>There are a number of commercial activities located within the Kena Kena shops. Intensification could support the existing shops.</li> <li>The area is accessible to a number of schools.</li> <li>The area is relatively distant to Paraparaumu town centre.</li> </ul>				
Residential development	Intensification in the area could contribute modestly to dwelling supply.				
Business land	<ul> <li>There is no General Industrial zoned land within the area.</li> <li>Existing business uses are likely to be supported by residential intensification.</li> </ul>				
Transport networks	<ul> <li>Intensification of the area may put pressure on existing east-west connectivity across northern Paraparaumu.</li> <li>There is an existing bus route that runs along Te Kupe Road and down Mazengarb Road.</li> <li>The area is relatively distant to Paraparaumu station and metropolitan centre. Active modes of transport may be less utilised on this basis and this may put pressure on park and ride facilities at the station.</li> </ul>				
Infrastructure and servicing	<ul> <li>Water and wastewater reticulation is generally integrated into the existing street network.</li> <li>Stormwater reticulation is generally integrated into the street network although there are a number of streets without reticulation. Stormwater discharges through Te Atiawa Park into the Waikanae saltmarsh wetlands.</li> <li>Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or pipes and pump stations between the area and the plant.</li> </ul>				
Natural ecosystem values	• There are no mapped ecological sites located within the area, although the Waikanae saltmarsh wetlands are located downstream from the area. The saltmarsh wetlands are identified as an area of indigenous coastal biodiversity.				
Water bodies	<ul> <li>A drain that discharges into the Waikanae saltmarsh wetlands runs through the area, along Te Atiawa park.</li> <li>Intensification within the area could increase discharges to the Waikanae saltmarsh wetlands.</li> </ul>				

Criteria	Observations	Rating
Landscape and	The area has excellent access to public open space at Te Atiawa Park.	
open space	The area has good access to coastal open space.	
values	<ul> <li>There are no identified special amenity landscapes within the area.</li> </ul>	
Heritage values	<ul> <li>There is a heritage listed building located in the north of the area on Ngapotiki street.</li> </ul>	
Topography	The area is flat.	
Natural hazards and land risks	<ul> <li>Flood hazard covers the a significant extent of the central and northern portion of the area. This is identified as ponding hazard.</li> </ul>	
(including effects	The full extent of the area is subject to high liquefaction potential.	
of climate change)	<ul> <li>The area relatively low lying and close to the coast, so may be subject to increased natural hazard risk associated with climate change.</li> </ul>	
	The school site is identified on the SLUR as an old landfill.	
Land use	Potential for reverse sensitivity effects on the school.	
compatibility	<ul> <li>The area is located underneath the airport approach path, although this is unlikely to affect building heights in the area.</li> <li>A school designation is located in the south of the area.</li> </ul>	
Climate change (low-carbon	Intensification in the area would have good access to open space, but relatively poor access to other activities and community services. This could encourage private vehicle trips to access everyday services.	
futures)	<ul> <li>Distance to Paraparaumu station may encourage private vehicle commuting.</li> </ul>	
	<ul> <li>Good access to coastal amenity may encourage the development of more energy efficient, higher density dwelling typologies.</li> </ul>	



#### **KAPITI COAST INTENSIFICATION** Kena Kena Local Centre

## MAZENGARB LOCAL CENTRE

AERIAL



#### ZONING



Urban Intensification Study Areas General Residential Zone Rural Lifestyle Zone Local Centre Zone Open Space Zone

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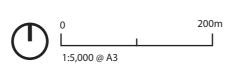
#### **KAPITI COAST INTENSIFICATION** Mazengarb Local Centre



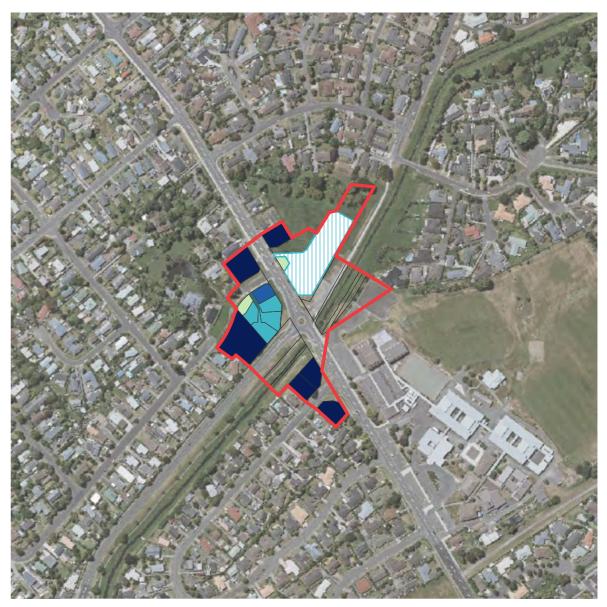
SITE WIDTH	EXISTING # RESIDENTIAL UNITS		AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.00	20	0
6.5m - 11m		3	0.05	30	2
11m - 14.5m		4	0.20	40	8
14.5m - 18m		4	0.05	40	2
18m <		4	0.68	40	27
	12		0.98		39
Additional dwell	ings (yield minus e	existing resident			27



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#### YIELD IN RESIDENTIAL + LOCAL CENTRE ZONE

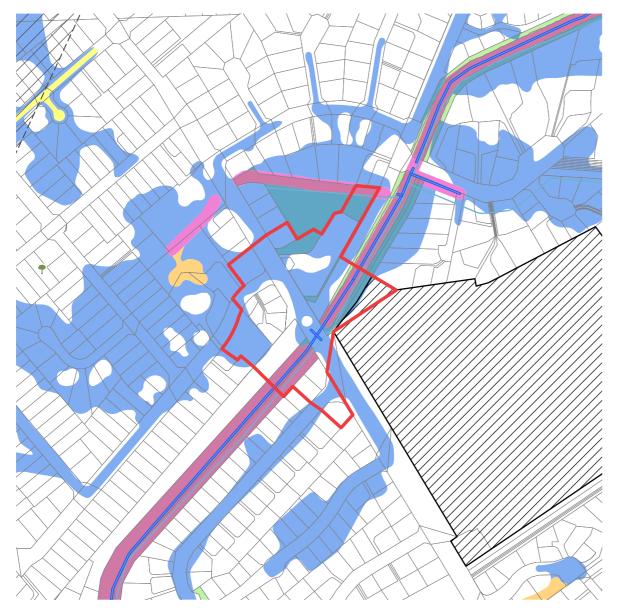


SITE WIDTH	EXISTING # RESIDENTIAL UNITS	•••••••	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.00	20	0
6.5m - 11m		3	0.05	30	2
11m - 14.5m		4	0.20	40	8
14.5m - 18m		4	0.05	40	2
18m <		4	0.68	40	27
Local Centre		4	0.46	40	18
	12		0.98		57
Additional dwelli	ings (yield minus e	xisting resident	ial units)		45

#### KAPITI COAST INTENSIFICATION Mazengarb Local Centre

## MAZENGARB LOCAL CENTRE

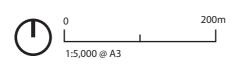
#### POTENTIAL QUALIFYING MATTERS



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#### **KAPITI COAST INTENSIFICATION** Mazengarb Local Centre

Urban Intensification Study Areas Key Indigenous Trees (KCDC) Designation (KCDC) Rivers Streams and Drains (KCDC) Rivers (LINZ) Flood Hazard Stream Corridor (KCDC) Flood Hazard Overflow Path (KCDC) Flood Hazard Flood Storage Area (KCDC) Flood Hazard Ponding Area (KCDC) Open Space Zone (KCDC) Airport OLS (KCDC)

UI-PA-2 (Mazengarb Local Centre)		
Locality	Locality Paraparaumu.	
Location	The area around the intersection of Mazengarb Road and Guildford Drive.	
Extent	Extent Approximate 100m walking distance from the Mazengarb local centre zone.	

Ke	Key constraints		y opportunities
•	Poor access to a range of community services and commercial activities (except Paraparaumu College).	•	The area is flat.
•	Flood hazard.		
•	Distance from Papararaumu station and metropolitan centre.		
•	High liquefaction potential.		

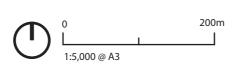
Potential qualifying matters (refer methodology for explanat	Potential qualifying matters (refer methodology for explanation and limitations)				
Qualifying matter	Applic able?	Notes			
Natural character in the coastal environment					
Wetlands, lakes, rivers and their margins	•	Mazengarb stream runs through the area.			
Outstanding natural features and landscapes					
Significant indigenous vegetation and significant habitats of indigenous fauna	•	Potential effects of increased discharge on the Waikanae estuary.			
Relationship of Māori and their culture and their traditions with					
their ancestral lands, water, sites, wāhi tapu and other taonga					
Historic heritage					
Significant risk from flood hazard	•	Flood hazard to a significant extent of the area.			
Significant risk from earthquake hazard					
Significant risk from coastal hazard					
Nationally significant infrastructure					
Public open space	•	Public open space in the northern extent of the area.			
Designations	•	School designation.			
Business land for low density uses					

Criteria	Observations	Rating
Mana whenua	There are no mapped sites of significance located within the area, although the area is upstream from the Waikanae estuary, which is identified as a site of significance to Te Ātiawa ki Whakarongotai.	
Urban form	• The Mazengarb local centre is not significant in the scale of its amenity, comprising only one restaurant. While increased height and density could improve the legibility of the local centre, this could be unwarranted in the context of the small scale of activity associated with the centre.	
Local neighbourhoods	The area is predominantly defined by Paraparaumu College to the east, and low density dwellings to the west.     There does not appear to be any notable or cohesive neighbourhood character that would be affected by     intensification in the area.	
Activity centres	<ul> <li>The Mazengarb local centre is not significant in the scale of its amenity, comprising only one restaurant.</li> <li>The area is accessible to a number of schools, including Paraparaumu College, which is adjacent to the area.</li> <li>The area is relatively distant to Paraparaumu town centre.</li> </ul>	
Residential development	<ul> <li>Intensification in the area in the area could contribute minimally to dwelling supply.</li> <li>Low access to commercial activities and community services may limit the development of higher density typologies.</li> </ul>	
Business land	<ul> <li>There is no General Industrial zoned land within the area.</li> <li>Intensification may support the existing local centre, although due to its small scale, benefits are likely to be minimal.</li> </ul>	
Transport networks	<ul> <li>Intensification of the area may put pressure on existing east-west connectivity across northern Paraparaumu.</li> <li>There is an existing bus route that runs along Mazengarb Road.</li> <li>There is a cycleway/footpath that runs along the Mazengarb Stream. This does not provide direct access to Paraparaumu metropolitan centre, although it does connect to Guildford drive closer to the metropolitan centre.</li> <li>The area is relatively distant to Paraparaumu station and metropolitan centre. Active modes of transport may be less utilised on this basis.</li> </ul>	
Infrastructure and servicing	<ul> <li>Water and wastewater reticulation is generally integrated into the existing street network.</li> <li>Stormwater reticulation is generally integrated into the street network. Stormwater discharges to an open drain that runs to the Waikanae estuary.</li> <li>Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or pipes and pump stations between the area and the plant.</li> </ul>	
Natural ecosystem values	There are no mapped ecological sites located within the area, although the Waikanae estuary is located downstream from the area. The estuary is identified as an area of indigenous coastal biodiversity.	

Criteria	Observations	Rating
Water bodies	The Mazengarb stream, which discharges into the Waikanae estuary, runs through the area.	
	Intensification within the area could increase discharges to the Waikanae estuary.	
Landscape and	• The area has moderate access to open space. There is adjacent an open space to the north of the area,	
open space	although this is predominantly a grassed area.	
values	There are no identified special amenity landscapes within the area.	
Heritage values	There are no heritage buildings located in the area.	
Topography	The area is flat.	
Natural hazards	• Flood hazard covers the a significant extent of the area. This is identified as ponding and stream corridor hazard.	
and land risks	The full extent of the area is subject to high liquefaction potential.	
(including effects		
of climate		
change)		
Land use	Potential for reverse sensitivity effects on the school.	
compatibility	A school designation is located to the east of the area.	
Climate change	Intensification in the area would have good access to Paraparaumu College, but poor access to other activities	
(low-carbon	and community services. This will likely encourage private vehicle trips to access everyday services.	
futures)	• While the area is generally accessible to Paraparaumu railway station, distance from the station may encourage private vehicle commuting.	

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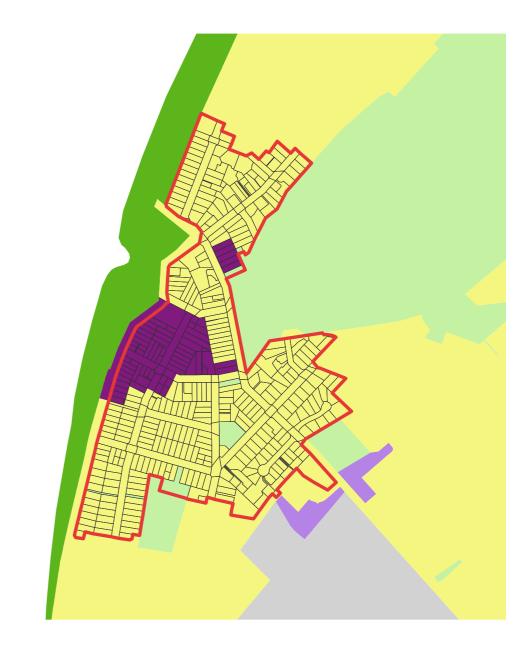


### KAPITI COAST INTENSIFICATION Mazengarb Local Centre

# PARAPARAUMU BEACH TOWN CENTRE

AERIAL

ZONING



Urban Intensification Study Areas General Residential Zone Town Centre Zone General Industrial Zone Natural Open Space Zone Open Space Zone Airport Zone

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#### **KAPITI COAST INTENSIFICATION** Paraparaumu Beach Town Centre

### YIELD IN RESIDENTIAL AREA



SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.06	20	1
6.5m - 11m		3	0.53	30	16
11m - 14.5m		4	4.49	40	180
14.5m - 18m		4	10.45	40	418
18m <		4	9.40	40	376
	416		24.94		991
Additional dwell	ings (yield minus e	existing resident	ial units)		575



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### YIELD IN RESIDENTIAL + TOWN CENTRE ZONE

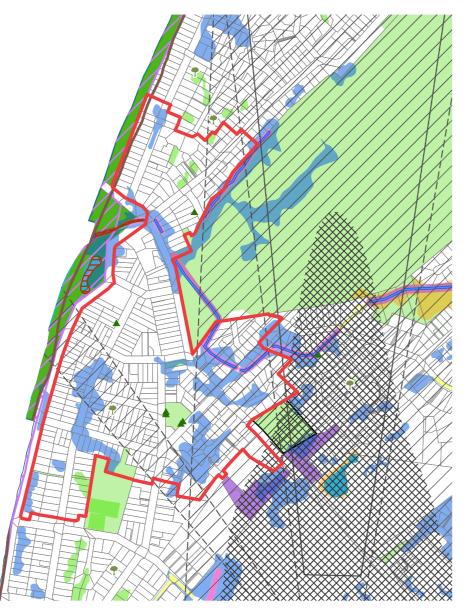


SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.06	20	1
6.5m - 11m		3	0.53	30	16
11m - 14.5m		4	4.49	40	180
14.5m - 18m		4	10.45	40	418
18m <		4	9.40	40	376
Town Centre		6	4.22	60	253
	416		29.16		1,244
Additional dwell	ings (yield minus e	xisting resident	ial units)		828

#### KAPITI COAST INTENSIFICATION Paraparaumu Beach Town Centre

# PARAPARAUMU BEACH TOWN CENTRE

#### POTENTIAL QUALIFYING MATTERS



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Lakes and Ponds (LINZ)

- Schedule B Ngā Taonga Nui a Kiwa (GWRC)
- Flood Hazard Stream Corridor (KCDC)
- Flood Hazard Overflow Path (KCDC)
- Flood Hazard Fill Control Area (KCDC)
- Flood Hazard Flood Storage Area (KCDC) Flood Hazard Ponding Area (KCDC)
- General Industrial Zone (KCDC)
- Natural Open Space Zone (KCDC)
- Open Space Zone (KCDC)
- $\mathbb{Z}$  Airport OLS (KCDC)
- Airport Noise Polygons (KCDC)

#### **KAPITI COAST INTENSIFICATION** Paraparaumu Beach Town Centre

UI-PA-3 (Paraparaumu Beach Town Centre)	
Locality	Paraparaumu
Location	The area to the north and south of the Paraparaumu Beach town centre.
Extent	Approximate 400m walking distance from the Paraparaumu Beach town centre zone.

Ke	Key constraints		/ opportunities
٠	Coastal hazard and effects of climate change.	•	Excellent access to a range of commercial services and community
•	Congestion on Kāpiti Road.		activities, as well as coastal amenity and open space.
•	High liquefaction potential.	•	Intensification could further support a well established town centre.
		•	The area is flat.

Potential qualifying matters (refer methodology for explanat	Potential qualifying matters (refer methodology for explanation and limitations)				
Qualifying matter	Applic able?	Notes			
Natural character in the coastal environment	•	Special amenity landscape in the coastal margin adjacent to the area.			
Wetlands, lakes, rivers and their margins	•	Tikotu stream runs through the area.			
Outstanding natural features and landscapes					
Significant indigenous vegetation and significant habitats of indigenous fauna	•	Potential effects of increased discharge on the Waikanae estuary.			
Relationship of Māori and their culture and their traditions with	•	Sites of significance associated with the Tikotu stream and the coastal			
their ancestral lands, water, sites, wāhi tapu and other taonga		margin.			
Historic heritage	•	Archaeological sites.			
Significant risk from flood hazard					
Significant risk from earthquake hazard					
Significant risk from coastal hazard	•	The area is located immediately adjacent to the coast.			
Nationally significant infrastructure					
Public open space	•	Several public open spaces located throughout the area.			
Designations	•	Obstacle limitation surfaces associated with the airport.			
Business land for low density uses					

Criteria	Observations	Rating
Mana whenua	• The Tikotu Stream is identified as a site of significance to Te Ātiawa ki Whakarongotai and Ngāti Toa Rangatira.	
	The Te Uruhi lagoon and the Paraparaumu coastal margin are identified as sites of significance to Te Ātiawa ki Whakarongotai.	
	• There are a number of archaeological sites located within and around the town centre, associated with middens, burial sites and kāinga.	
Urban form	• Existing urban form around the town centre is well developed, generally ranging from 2 to 3 storeys, with one 14	
	storey apartment building. Increased height and building density is likely to be appropriate within and around the Town Centre zone.	
	• On the basis of the established scale of urban form in the town centre, increase in the height and density of built	
	form in areas to the north and south of the town centre, and along Kāpiti road, could be appropriate.	
Local neighbourhoods	Intensification within the town centre could be consistent with established patterns of development within the area.	
· <b>J</b>	<ul> <li>The residential areas to the north and south of the town centre are defined by a mix of one and two storey</li> </ul>	
	dwellings, on relatively densely developed sites. Moderate intensification of these areas could to be consistent	
	with existing patterns of development.	
Activity centres	• The area has access to a range of commercial activities and community services, including shops, cafes and	
	entertainment, and other community facilities.	
	Intensification could support existing commercial and community activity within the town centre.	
Residential	Intensification in the area is likely to contribute to dwelling supply.	
development	High levels of access to a range of activities and coastal amenity may encourage the development of higher density typologies.	
Business land	There is no General Industrial zoned land within the area.	
Transport	Kāpiti Road is the most congested road in the district, and development in the area could exacerbate this.	
networks	• Alterations to the surrounding road network are planned to relieve some of this congestion. Work to the network	
	is contingent on NZTA funding and not planned to be completed until the mid 2030's.	
	Distance to Paraparaumu railway station may promote vehicle commuting, although there is a cycleway	
	incorporated into Kāpiti Road.	
Infrastructure	Water and wastewater reticulation is generally integrated into the existing street network.	
and servicing	Stormwater reticulation is generally integrated into the street network, although to a lesser extent in the areas to the most of the term control of the term control of the street includion through the street includion.	
	the north of the town centre. Stormwater discharges at a number of points directly to the coast, including through the Tikotu stream.	
	bepending on socie, development in the area may ingger appliades to the existing waste water plant, and/or	
	pipes and pump stations between the area and the plant.	

Criteria	Observations	Rating
Natural	There are no mapped ecological sites located within the area.	
ecosystem	There is one key indigenous tree located in the area.	
values		
Water bodies	The Tikotu stream runs through the area.	
	Intensification in the area could increase discharges to the Tikotu stream and directly into the coastal marine	
	area.	
Landscape and	• The area has excellent access to coastal open space, which includes a playground located in Maclean Park.	
open space	There are a number of smaller public open spaces located within the area.	
values	There are a number of notable trees located within the area.	
	• There are no special amenity landscapes located within the area, although the coastal margin adjacent to the	
	area is identified as a special amenity landscape.	
Heritage values	There are no heritage buildings located in the area.	
	There are a number of archaeological sites located throughout the area, and there is an archaeological area	
	identified on Ocean road.	
Topography	The area is flat.	
Natural hazards	• There are small areas of flood hazard located within the area. These are primarily made up of small extents of	
and land risks	ponding, fill control area and stream corridor associated with the Tikotu stream.	
(including effects	The full extent of the area is subject to high liquefaction potential.	
of climate	The area relatively low lying and adjacent to the coast, so will be subject to increased natural hazard risk	
change)	associated with climate change.	
	There are a number of sites on the SLUR located within the Town Centre.	
Land use	• Parts of the area are located underneath the obstacle limitation surfaces associated with the airport. These are	
compatibility	unlikely to prohibit development below 4 storeys in residential areas and 6 storeys in the town centre, although	
	taller buildings may be affected.	
	• There are no designations located within the area, although there is a cemetery designation located adjacent the	
	area.	
Climate change	<ul> <li>Intensification in the area would have good access a range of community services, commercial activities, shops,</li> </ul>	
(low-carbon	public open space and coastal amenity. This could reduce short vehicle trips.	
futures)	• The area has good access to active modes along Kāpiti Road, although proximity to the railway is relatively	
	distant, and this may promote some vehicle commuting.	
	Good access to community services, commercial activities and other amenity may encourage the development	
	of more energy efficient, higher density dwelling typologies.	



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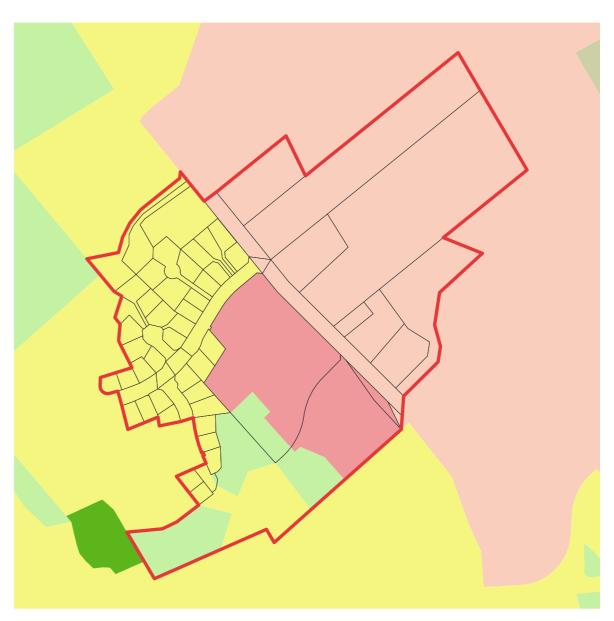
#### **KAPITI COAST INTENSIFICATION** Paraparaumu Beach Town Centre

# **MEADOWS LOCAL CENTRE**

AERIAL



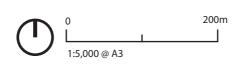
### ZONING



Urban Intensification Study Areas General Residential Zone General Rural Zone Rural Lifestyle Zone Local Centre Zone Natural Open Space Zone Open Space Zone



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#### **KAPITI COAST INTENSIFICATION** Meadows Local Centre

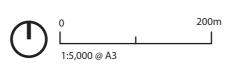
### YIELD IN RESIDENTIAL AREA



SITE WIDTH	EXISTING # RESIDENTIAL UNITS	•••••••	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.00	20	0
6.5m - 11m		3	0.00	30	0
11m - 14.5m		4	0.17	40	7
14.5m - 18m		4	0.40	40	16
18m <		4	4.09	40	164
	54		4.66		186
Additional dwell	ings (yield minus e	existing resident	ial units)		132

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### YIELD IN RESIDENTIAL + LOCAL CENTRE ZONE

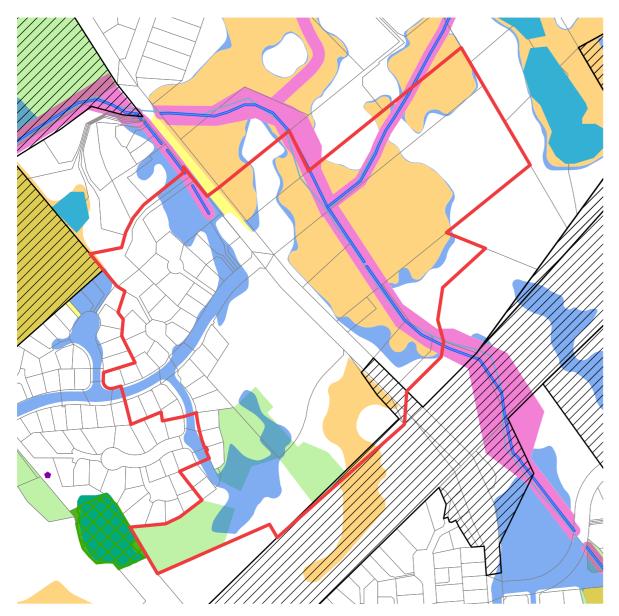


SITE WIDTH	EXISTING # RESIDENTIAL UNITS	•••••••	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.00	20	0
6.5m - 11m		3	0.00	30	0
11m - 14.5m		4	0.17	40	7
14.5m - 18m		4	0.40	40	16
18m <		4	4.09	40	164
Local Centre		4	3.31	40	132
	54		7.97		318
Additional dwel	lings (yield minus e	xisting resident	ial units)		264

### KAPITI COAST INTENSIFICATION Meadows Local Centre

# **MEADOWS LOCAL CENTRE**

#### POTENTIAL QUALIFYING MATTERS



Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.



Lakes and Ponds (LINZ) Flood Hazard Stream Corridor (KCDC) Flood Hazard Overflow Path (KCDC) Flood Hazard Flood Storage Area (KCDC) Flood Hazard Ponding Area (KCDC) Natural Open Space Zone (KCDC) Open Space Zone (KCDC)



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#### **KAPITI COAST INTENSIFICATION** Meadows Local Centre

UI-PA-4 (Meadows Local Centre)				
Locality Paraparaumu				
Location	The area around the corner of Mazengarb Road and Realm Drive.			
Extent	Approximate 200m walking distance from the Meadows precinct local centre zone. Excludes the extent to the north of Mazengarb Road, which is associated with Future Urban Study Area OH-01.			

Ke	Key constraints		/ opportunities
•	Poor access to a range of community services and commercial	•	Development opportunity associated with undeveloped parts of the
	activities.		area.
•	Liquefaction potential.	•	The area is relatively flat.

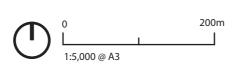
Qualifying mottor	Annlia	Notas
Qualifying matter	Applic	Notes
	able?	
Natural character in the coastal environment		
Wetlands, lakes, rivers and their margins	•	Ponds located within the area.
Outstanding natural features and landscapes		
Significant indigenous vegetation and significant habitats of		
indigenous fauna		
Relationship of Māori and their culture and their traditions with		
their ancestral lands, water, sites, wāhi tapu and other taonga		
Historic heritage		
Significant risk from flood hazard		
Significant risk from earthquake hazard		
Significant risk from coastal hazard		
Nationally significant infrastructure	•	Expressway located adjacent to the area.
Public open space	•	Several public open spaces located throughout the area.
Designations	•	The Expressway designation extends in to the area.
Business land for low density uses		

Criteria	Observations	Rating
Water bodies	A tributary to the Mazengarb Stream originates in the north of the area.	
	<ul> <li>There are two ponds located in public open spaces to the south of the area.</li> </ul>	
	<ul> <li>Intensification in the area could increase discharges to the Mazengarb Stream.</li> </ul>	
Landscape and	• The area has good access to public open spaces, both within the area, and at Mazengarb Reserve to the north	
open space	of the area.	
values	There are no special amenity landscapes located within the area.	
Heritage values	There are no heritage buildings located in the area.	
	• Given the archaeological sites associated with the Expressway, there could be the possibility of discovery within	
	the area.	
Topography	The area is relatively flat.	
Natural hazards	• There are small areas of flood hazard located to the south of Mazengarb Road. This includes areas of ponding	
and land risks	and flood storage.	
(including effects	The area to the north of Mazengarb Road (outside the extent of the study area) is subject to extensive flood	
of climate	hazard.	
change)	The full extent of the area is subject to high liquefaction potential.	
Land use	Potential for reverse sensitivity effects on the Expressway.	
compatibility	<ul> <li>The Expressway designation extends along Mazengarb Road into the area.</li> </ul>	
Climate change	Intensification in the area will have a low degree of access to a range of community services and commercial	
(low-carbon	activities. This could promote short vehicle trips.	
futures)	The area has good access to active modes along the Expressway, which provide access to Paraparaumu	
	metropolitan centre.	
	• While the area is generally accessible to Paraparaumu railway station, distance from the station may encourage	
	private vehicle commuting.	

Criteria	Observations	Rating
Mana whenua	<ul> <li>There are no mapped sites of significance within the area, although there are a number of archaeological sites associate with middens located around the Expressway to the south of the area.</li> </ul>	
Urban form	• The local centre is relatively undeveloped and is not significant in the scale of its amenity, comprising a church and early childhood education centre a large extent of at-grade car parking. While increased height and density could improve the legibility of the local centre, this could be unwarranted in the context of the small scale of activity associated with the centre.	
Local neighbourhoods	<ul> <li>The area is relatively undeveloped, and defined predominantly by the Expressway to the south and rural residential activity within the rural zone to the east.</li> <li>The area to the north of Realm Drive is predominantly defined by single storey residential dwellings. There does not appear to be any notable or cohesive neighbourhood character that would be affected by intensification in the area.</li> </ul>	
Activity centres	<ul> <li>The local centre is not significant in the scale of its amenity (although this may change over time)</li> <li>There are limited commercial activities located in the surrounding area.</li> <li>Paraparaumu College is located approximately 1km to the north of the area.</li> </ul>	
Residential development	<ul> <li>Intensification in the area in the area could contribute minimally to dwelling supply.</li> <li>Low access to commercial activities and community services may limit the development of higher density typologies.</li> </ul>	
Business land	There is no General Industrial zoned land within the area.	
Transport networks	<ul> <li>The area does not have direct access to the Expressway.</li> <li>The area has good access to active modes along the Expressway.</li> <li>Distance to Paraparaumu railway station may promote vehicle commuting.</li> </ul>	
Infrastructure and servicing	<ul> <li>Water and wastewater reticulation is integrated into Realm Drive and Mazengarb Road to the north of Realm Drive.</li> <li>Stormwater reticulation is integrated in to Realm Drive, and there is a reticulation point in Mazengarb Road opposite the local centre zone. Stormwater to a pond in Mazengarb Reserve, which discharges into Mazengarb Stream. This eventually discharges in to Waikanae estuary.</li> <li>Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or pipes and pump stations between the area and the plant.</li> </ul>	
Natural ecosystem values	• There are no mapped ecological sites located within the area, although there is an ecological area and wetland located to the south-west of the area.	



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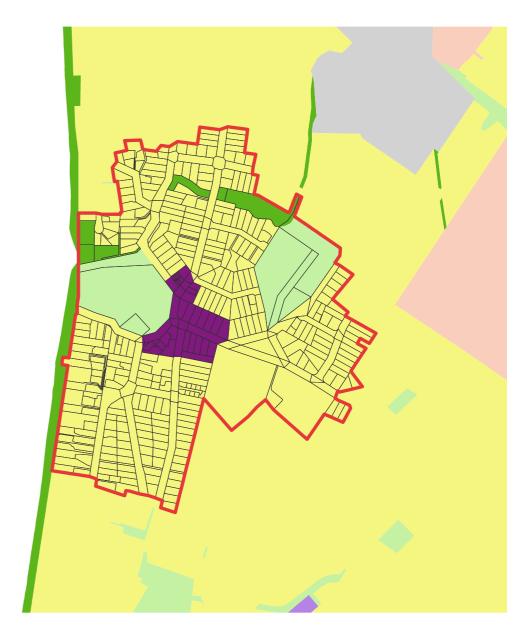


### **KAPITI COAST INTENSIFICATION** Meadows Local Centre

# **RAUMATI BEACH TOWN CENTRE**

#### AERIAL

ZONING



Urban Intensification Study Areas General Industrial Zone General Residential Zone Rural Lifestyle Zone Town Centre Zone

Natural Open Space Zone Open Space Zone Airport Zone



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#### **KAPITI COAST INTENSIFICATION** Raumati Beach Town Centre

### YIELD IN RESIDENTIAL AREA



SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.43	20	9
6.5m - 11m		3	0.02	30	1
11m - 14.5m		4	1.53	40	61
14.5m - 18m		4	13.59	40	544
18m <		4	12.00	40	480
	401		27.58		1,094
Additional dwell	ings (yield minus e	xisting resident	ial units)		693



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### YIELD IN RESIDENTIAL + TOWN CENTRE ZONE

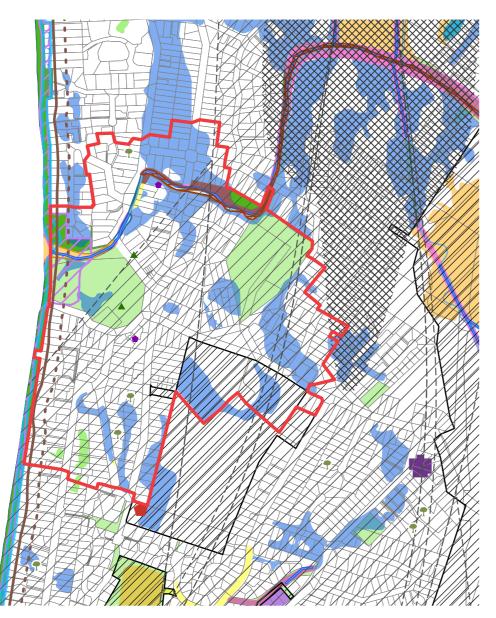


SITE WIDTH	EXISTING # RESIDENTIAL UNITS	CAPACITY # STOREYS	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.43	20	9
6.5m - 11m		3	0.02	30	1
11m - 14.5m		4	1.53	40	61
14.5m - 18m		4	13.59	40	544
18m <		4	12.00	40	480
Town Centre		6	1.99	60	199
	401		29.57		1,213
Additional dwell	ings (yield minus e	existing resident	ial units)		812

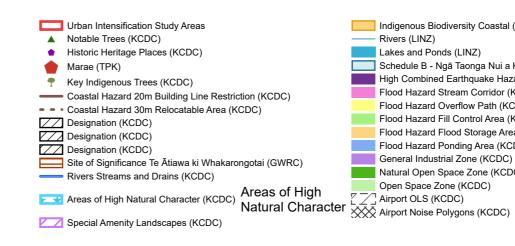
#### KAPITI COAST INTENSIFICATION Raumati Beach Town Centre

# **RAUMATI BEACH TOWN CENTRE**

#### POTENTIAL QUALIFYING MATTERS



Note: this drawing highlights potential "qualifying matters" that may apply to each area, based on existing mapping. This is a scoping exercise only. These have not been used to reduce height or denisty as a part of this assessment. Refer to the covering report for discussion on potential qualifying matters.





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Indigenous Biodiversity Coastal (GWRC) Rivers (LINZ) Lakes and Ponds (LINZ) Schedule B - Ngā Taonga Nui a Kiwa (GWRC) High Combined Earthquake Hazard (GWRC) Flood Hazard Stream Corridor (KCDC) Flood Hazard Overflow Path (KCDC) Flood Hazard Fill Control Area (KCDC) Flood Hazard Flood Storage Area (KCDC) Flood Hazard Ponding Area (KCDC) General Industrial Zone (KCDC)

Natural Open Space Zone (KCDC)

#### **KAPITI COAST INTENSIFICATION** Raumati Beach Town Centre

UI-RB (Raumati Beach Town Centre)			
Locality	Raumati Beach		
Location	Location The area around the Raumati Beach town centre.		
Extent	Extent Approximate 400m walking distance from the Raumati Beach town centre zone.		

Key constraints		Key opportunities		
	Coastal hazard and effects of climate change.	Excellent access to a range of commercial services and community		
	High liquefaction potential.	activities, as well as coastal amenity and open space.		
		• Intensification could further support a well established town centre.		

Potential qualifying matters (refer methodology for explanation and limitations)				
Qualifying matter	Applic able?	Notes		
Natural character in the coastal environment	•	Special amenity landscapes along the coastal edge.		
Wetlands, lakes, rivers and their margins	•	The Wharemauku stream runs through the area.		
Outstanding natural features and landscapes				
Significant indigenous vegetation and significant habitats of	•	Coastal indigenous biodiversity associated with the mouth of the		
indigenous fauna		Wharemauku stream.		
Relationship of Māori and their culture and their traditions with	•	The Wharemauku Stream is a site of significance of Te Atiawa ki		
their ancestral lands, water, sites, wāhi tapu and other taonga		Whakarongotai.		
Historic heritage	•	A small number of listed heritage buildings located throughout the area.		
Significant risk from flood hazard	•	Flood hazard associated with the Wharemauku stream.		
Significant risk from earthquake hazard				
Significant risk from coastal hazard	•	The area is located immediately adjacent to the coast.		
Nationally significant infrastructure				
Public open space	•	Several public open spaces located throughout the area.		
Designations	•	School designation.		
Business land for low density uses				

Criteria	Observations	Rating
Natural	The area around the mouth of the Wharemauku stream is identified as an area of indigenous coastal	
ecosystem	biodiversity.	
values	There are three identified key indigenous trees located in the area.	
Water bodies	The Wharemauku stream flows through the area. Intensification in the area could increase discharges to the	
	Wharemauku stream.	
Landscape and	The area has excellent access to public open space, including at Weka Park and Raumati Beach park.	
open space	The underlying dune topography had an influence on the landscape of the area.	
values	• The coastal edge and the area around the Raumati Beach park are identified as a special amenity landscape.	
	There are two notable trees identified in the area.	
Heritage values	There are two listed heritage buildings located within the area.	
	There are two archaeological sites identified in the area.	
Topography	The area is relatively undulating, and topography increases in steepness on the coastal side of the area.	
Natural hazards	• The area around the Wharemauku stream is subject to flood hazard, although the raised areas in and around	
and land risks	the town centre are relatively free of flood hazard.	
(including effects	• The coastal margin and low lying areas around the Wharemauku stream are likely to be subject to increased risk	
of climate	from climate change.	
change)	The entire area is subject to high liquefaction potential.	
Land use	Parts of the area are located beneath the airport obstacle limitation surface, although these are unlikey to affect	
compatibility	building heights in the area.	
	Potential for reverse sensitivity effects on the school.	
	There is a school designation located in the south of the area.	
Climate change	• Intensification in the area would have good access a range of community services, commercial activities, shops,	
(low-carbon	public open space and coastal amenity. This could reduce short vehicle trips.	
futures)	The area has reasonable access by active modes to Paraparaumu metropolitan centre.	
	Good access to community services, commercial activities and other amenity may encourage the development	
	of more energy efficient, higher density dwelling typologies.	

Criteria	Observations	Rating
Mana whenua	The Wharemauku stream is identified as a site of significance to Te Ātiawa ki Whakarongotai.	
	An archaeological site associated with the Wharemauku pā is located in the north of the area.	
Urban form	<ul> <li>Existing urban form around the town centre is well developed, generally 2 storeys and in some cases three storeys. Increased height and building density is likely to be appropriate within and around the Town Centre zone.</li> </ul>	
	• Increased height and density in and around the town centre would help strengthen the areas legibility as the centre of Raumati Beach.	
Local neighbourhoods	The town centre area and the residential area surrounding the town centre is composed of a mixture of activities developed at a relatively high density. There are a number of terrace and multi-unit housing typologies established in the area. Increases in height and density is likely to complement established patterns of development.	
	• The area to the north of the town centre is defined by single and double storey dwellings integrated into the ridge that overlooks the Wharemauku stream. Residential intensification may alter the scale of existing development in this area, although this may be mitigated to some extent by the topography of the area.	
	• The area to the south of the town centre is located within the Raumati Beach special character area. This area is defined predominantly by one and two storey dwellings located around the ridgeline along Rosetta Road. Residential intensification is likely to alter the existing scale of development in the area.	
Activity centres	<ul> <li>The area has good access to range of commercial activities and community services, including shops, cafes, schools, and other community facilities.</li> <li>Intensification would be likely to support existing activities in the area.</li> </ul>	
Residential	<ul> <li>Intensification in the area is likely to contribute to dwelling supply.</li> </ul>	
development	<ul> <li>High levels of access to a range of activities and coastal amenity may encourage the development of higher density typologies.</li> </ul>	
Business land	There is no General Industrial zoned land in the area.	
Transport	There is a bus route on Raumati Road.	
networks	The area is well connected by active modes to Paraparaumu district centre and relatively accessible to     Paraparaumu railway station.	
Infrastructure	Water and wastewater reticulation is generally integrated into the existing street network.	
and servicing	• Stormwater reticulation is generally integrated into the street network. The majority of stormwater in the area discharges at various points in to the Wharemauku stream.	
	• Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or pipes and pump stations between the area and the plant.	



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### KAPITI COAST INTENSIFICATION Raumati Beach Town Centre

# **RAUMATI SOUTH LOCAL CENTRE**

AERIAL



ZONING

Urban Intensification Study Areas General Residential Zone Local Centre Zone Natural Open Space Zone Open Space Zone

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### **KAPITI COAST INTENSIFICATION** Raumati South Local Centre

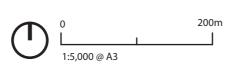
### YIELD IN RESIDENTIAL AREA



SITE WIDTH	EXISTING # RESIDENTIAL UNITS		AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.05	20	1
6.5m - 11m		3	0.00	30	0
11m - 14.5m		4	0.75	40	30
14.5m - 18m		4	1.20	40	48
18m <		4	3.26	40	130
	70		5.27		209
Additional dwell	ings (yield minus e	existing resident	•		139



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### YIELD IN RESIDENTIAL + LOCAL CENTRE ZONE

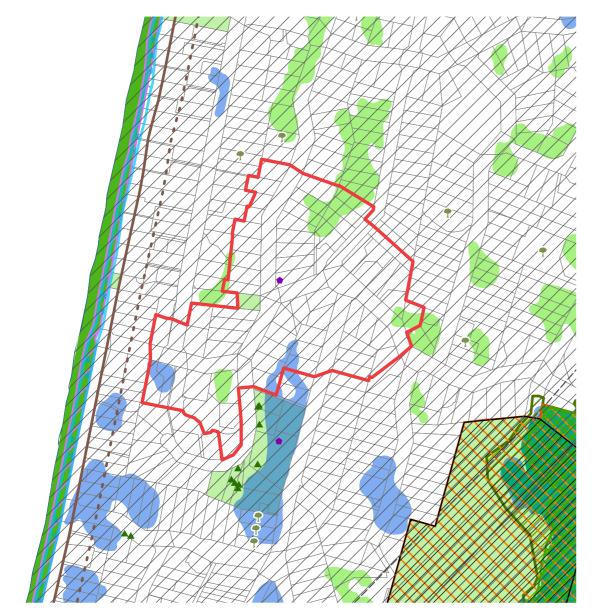


SITE WIDTH	EXISTING # RESIDENTIAL UNITS	•••••••	AREA IN HA	APPLIED DENSITY DW/HA	APPROX YIELD
< 6.5m		up to 2	0.05	20	1
6.5m - 11m		3	0.00	30	0
11m - 14.5m		4	0.75	40	30
14.5m - 18m		4	1.20	40	48
18m <		4	3.26	40	130
Local Centre		4	0.25	40	10
	70		5.52		219
Additional dwell	ings (yield minus e	existing resident	ial units)		149

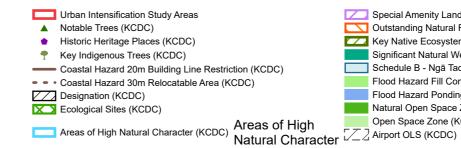
#### KAPITI COAST INTENSIFICATION Raumati South Local Centre

# **RAUMATI SOUTH LOCAL CENTRE**

#### POTENTIAL QUALIFYING MATTERS

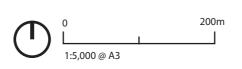


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- Special Amenity Landscapes (KCDC)
- Outstanding Natural Features and Landscapes (KCDC)
- Key Native Ecosystems (GWRC)
  - Significant Natural Wetlands (GWRC)
- Schedule B Ngā Taonga Nui a Kiwa (GWRC)
- Flood Hazard Fill Control Area (KCDC) Flood Hazard Ponding Area (KCDC)
- Natural Open Space Zone (KCDC)
- Open Space Zone (KCDC)

#### **KAPITI COAST INTENSIFICATION** Raumati South Local Centre

UI-RS (Raumati South Local Centre)			
Locality Raumati South			
LocationThe area around the Raumati South local centre on the corner of Poplar Ave and Renown Road.ExtentApproximate 200m walking distance from the Raumati South local centre zone.			

	Key constraints	Key opportunities		
ſ	High liquefaction potential.	•	Good access to local commercial activity, amenity and coastal open	
	Relative distance to Paraparaumu metropolitan centre and railway		space.	
	station.	•	Intensification could further support a well established local centre.	

Potential qualifying matters (refer methodology for explanation and limitations)				
Qualifying matter	Applic able?	Notes		
Natural character in the coastal environment				
Wetlands, lakes, rivers and their margins				
Outstanding natural features and landscapes				
Significant indigenous vegetation and significant habitats of				
indigenous fauna				
Relationship of Māori and their culture and their traditions with				
their ancestral lands, water, sites, wāhi tapu and other taonga				
Historic heritage	•	One listed heritage building in the area.		
Significant risk from flood hazard				
Significant risk from earthquake hazard				
Significant risk from coastal hazard				
Nationally significant infrastructure				
Public open space	•	One public open space located within the area.		
Designations				
Business land for low density uses				

Criteria	Observations	Rating
Mana whenua	There are no mapped sites of significance located within the area.	
Urban form	• The existing cluster of shops is modest in scale. A moderate increase in building height and density may be	
	appropriate in the area, and may assist in improving the legibility of the Raumati South local centre.	
Local	• The area is predominantly defined by single storey dwellings integrated into the gently undulating landscape.	
neighbourhoods	The western half of the area is situated within the Raumati Beach special character area.	
	• Increases in height and density could alter the existing character of the area, although this may be mitigated to	
	some extent by the topography of the area.	
Activity centres	• There are a number of commercial activities located within the Raumati South shops. Intensification could	
	support existing commercial activity within the area.	
	There is some commercial activity on the northern side of the intersection between Poplar Ave and Renown	
	Road, even though this is not part of the local centre zone.	
	The area is relatively accessible to Raumati South school.	
	The area is relatively distant to Paraparaumu town centre.	
Residential	Intensification in the area could contribute modestly to dwelling supply.	
development	• High levels of access to a range of activities and coastal amenity may encourage the development of higher	
	density typologies.	
Business land	There is no General Industrial zoned land in the area.	
Transport	There is a bus route on Poplar Ave.	
networks	• The area is not well served by active mode access to Paraparaumu metropolitan centre or Paraparaumu railway	
	station.	
	Distance to Paraparaumu Station is likely to promote private vehicle commuting and put pressure on park and	
	ride facilities at the train station.	
Infrastructure	Water and wastewater reticulation is generally integrated into the existing street network.	
and servicing	• Stormwater reticulation is generally integrated into the street network. The majority of stormwater in the area	
	discharges directly in to the the coastal marine area via a rising main on Kainui Road.	
	Depending on scale, development in the area may trigger upgrades to the existing waste water plant, and/or	
	pipes and pump stations between the area and the plant.	
Natural	There are no mapped ecological sites identified within the area.	
ecosystem		
values		
Water bodies	There are no waterbodies located within or adjacent to the area.	

Criteria	Observations	Rating
Landscape and	• There is a small public open space located within the area adjacent to the local centre, and there is a larger park	
open space	located to the south of the area.	
values	The area has good access to coastal open space to the west.	
	The area is accessible to Queen Elizabeth Park.	
	The underlying dune topography had an influence on the landscape of the area.	
	There are no special amenity landscapes identified within the area.	
Heritage values	The building located on the corner of Poplar Ave and Renown Road is a listed heritage building.	
Topography	The area is relatively undulating, and topography increases in steepness on the coastal side of the area.	
Natural hazards	There are some small extents of flood hazard located within the area.	
and land risks	The entire area is subject to high liquefaction potential.	
(including effects		
of climate		
change)		
Land use	There are no notable reverse sensitivity issues in the area.	
compatibility	There are no designations in the area.	
Climate change	Intensification in the area would have reasonable access to some commercial activities, and good access to	
(low-carbon	public open space and coastal amenity. This could reduce short vehicle trips.	
futures)	The area is relatively distant to Paraparaumu metropolitan centre and railway station. This may promote private vehicle commuting.	

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### KAPITI COAST INTENSIFICATION Raumati South Local Centre

# **METHODOLOGY**

#### GENERAL METHODOLOGY AND **ASSUMPTIONS**

- Walkable catchments have been mapped by KCDC, to the following specification: 800m from the edge of the metropolitan centre zone and rapid transit stops; 400m from town centres and 200m from local centres. Properties that fall within these walkable catchments have been assessed.
- Roads, open space, rural zoned sites and designations have been excluded. •
- The assessment assumes the following overall specification (consistent with the draft District Growth Strategy):

Area	Maximum	Recession plane assumption
	height	
Metropolitan centre zone	12 storeys	No recession planes
Town centre zone and mixed use	6 storys	No recession planes
zone (and Paekakariki Local Centre)		
Local centre zone	4 storeys	No recession planes
General residential zone within the	6 storeys	8m vertical at the boundary with 60
walkable catchment of the metropoli-		degree recession plane
tan centre or rapid transit stop		
General residential zone around	4 storeys	8m vertical at the boundary with 60
Town and Local centres		degree recession plane

- Recession plane assumptions have been derived from the Auckland Unitary Plan's Terrace House and Apartment Building Zone.
- . Based on applied recession planes, the minimum site width required to acheive certain buildings heights was calculated (refer diagrams shown).
- A minimum 1m side yard has been assumed.
- For 2 storey buildings, a minimum width of 4.5m has been assumed. For 3+ storey buildings, a minimum 7m width has been assumed. Assumed less than 4.5m wide does not provide sufficient space to accommodate a storey.
- Each site within the intensification area has been graded based on site width. Site widths were identified by measuring the shortest side of the largest rectangle that can fit within each of each site. Density was applied to each site based on the building height that could be accommodated on the site, based on its width.
- Densities have been derived from the KCDC draft District Growth Strategy, and have been adjusted to fit the modelled recession planes as applied within the general residential zone (see the adjacent diagrams).
- Within the Local Centre zone a density of 40 dwellings per hectare (4 storeys) has been applied. This assumes a non-residential ground floor, and no recession planes.
- Within the Town Centre, Mixed Use and Paekakariki local centre zone a density of 60 dwellings per hectare (6 storeys) has been applied. This assumes a nonresidential ground floor, and no recession planes.
- Within the Metropolitan Zone, a density of 100 dwellings per hectare (12 storeys) • has been applied. This assumes a non-residential ground floor, and no recession planes.
- Existing dwellings for each site are estimated based on the number of address • points located within each site. No existing dwellings have been assumed on sites within the centres or mixed use zones.
- Potential qualifying matters shown are indicative only. The presence of qualifying matters has not been taken into account in the calculation of potential yield., nor have other site specific constraints such as topography, access or hazards.
- The yield calculations contained in this assessment should be seen as indicative only. They represent a general quantum of dwelling capacity that could be enabled based on the parameters and assumptions outlined in this methodology. They do not account for the feasibility or realisability of development.



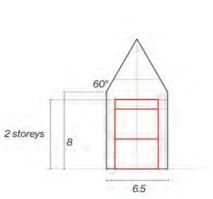
This plan has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors of pmissions to the extent that they arise from inaccurate information provided by the Client or any external source.

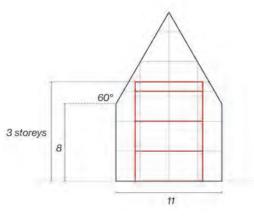
#### DENSITY, HEIGHT AND RECESSION PLANE ASSUMPTIONS

2 STOREY - 20 DW/HA

#### UP TO 6.5M WIDE

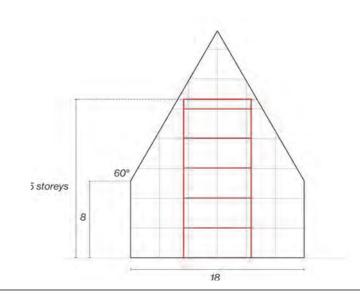
# BETWEEN 6.5M AND 11M WIDE

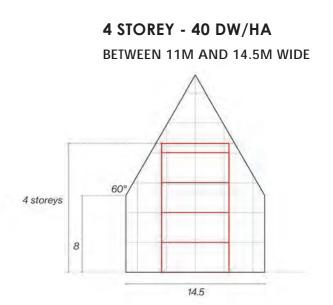




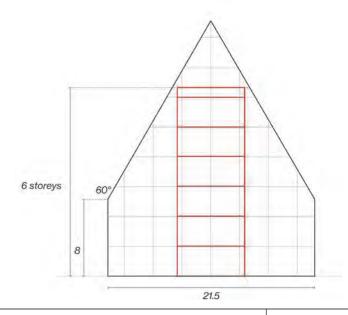
3 STOREY - 30 DW/HA

#### 5 STOREY - 50 DW/HA BETWEEN 14.5M AND 18M WIDE







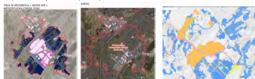


**KAPITI COAST INTENSIFICATION** 

# Appendix 4: Aurecon Three-Waters Infrastructure Assessment

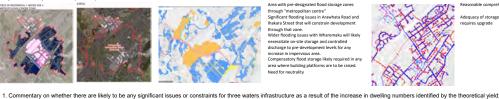
#### KCDC Masterplanning owth Area Revie

itan Centre (UI-PA-05)





ant flooding issues in Ara Street that will constrai nt levels for any



g constraints on Wharemauku. As a predesigntaed flood storage area, unlikely to progress significant development in area without establishment of compensatory storage and/ or upstream attentuation. Close connection to existing astewater treatment plant, though localised network upgrades may be required in some areas. Well serviced by water supply network, however population triggers for storage upgrade requirements to be confirmed Significant flooding con

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Stormwater in particular is a significant constraint to development in this area. Residential densification viable, outside of flood storage zones provisional on ensuring stormwater neutrality can be established. Network upgrade requirements likely to be loce

#### ariki Local Centre and Ra way Station (





and alc Coasta of rail Number of localised volcano catchments



age to be co

d and likely

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield

e absence of a formalised sewer network would present a significant issue if looking to up densities in the area. The establishment of a new treatment plant or a major pumpstation and transmission main establishment of a localised gravity connection network. Confirmation is required on the adequacy of the water network, in particular storage requirements for the increased population. Localised flooding a necessitates improved drainage in these areas required to achieve prescribed densities. ould lkely be required. This would also trigg sed population. Localised flooding along the rail and in the vicinity of town

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

The cost of reticulation and treatment plant upgrades is likely to be prohibative to development

#### WaikanaeTown Centre(UI-WA)





Significant secondary flow through northern part of town and kohekohe road area

Town centre general clear Park to south influenced by Waikanae river

Significant ponding on eastern side of Need for neutrality in design outcome



Reticulation duscharges primarily by gravity to west via two trunl connections which feeds back to Paraparaumu treatment plant Minor network upgrades likely required

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

Significant areas of Kohekohe street area impacted by flooding and localised upgrades likely required (noting much of this flooding seems to be relatively shallow). Similarly for breakouts from stream across northern reaches in area. Water supply looks good however adequacy of storage to meet future demand needs to be confirmed. Localised infrastructure upgrades likely required to imrove wastewater connection to trunk wastewater mains.

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Town centre relatively well suited to improved densities with wider drainage upgrades implemented (as closer to top reaches of cat ent). Water and wastewater can accommodate growth with relatively minor upgrades

#### Ōtaki MainStreet/Mill Road(U,-ŌT-01)





Known issues with breakout from stream through town centre limited local sw network



Known condition issues Adequacy of storage limited.

Close to WWTP Aging infrastructure Poor condition Number of localised PSs

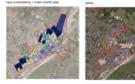
1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical vield.

significant issues with quality of existing local infrastructure which is known to be aging and strained (water and wastewater). Issues also with breakout fro with limited formal network to acco plant is close, existing network known to be performaing poorly

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

nd network upgrades/ connections in all three waters. Potential for development to the east of stream Likely requires storage upgrades, streets

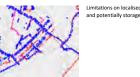
#### Ōtaki Railway(U,-ŌT-02)





from Otaki river breakout Designated storage zone to north of township impede development Improved drainage likely required for streetscapes

Significant flooding with secondary flow



Limitations on localised water supply Close treatment plant.

Known constraints on existing reticulated supply

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

Existing infrastructure known to be undersized with known maintenance issues in need of significant upgrade to accommodate projected demands. Network storage and supply requirments for bulk area (being in part asissted by SH upgrades) with issues on local catchment and potential for breakout from Otaki river. Designated storage zones identified that will const ater known to be close to limits. Extensive flooding through rain development to the north.

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Significant storage and network upgrades required to develop this area. Protection from Otaki river and local drainage network required to accommodate

Waikanae BeachLocal Centre(UI-WB)





Overflow from the low lying area behind dunes. secondary flowpath down Te Moa Road potential backwater effects from edimentations.



Good water supply networks. Upgrade scale unlikely to necessitate storage upgrades

Directly adjacent to tranfer pumpstation

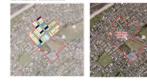
1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

Good for connection to main wastewater trunk mains and relatively well serviced by water. Issues with low lying flatter residential areas with secondary overflow from area down Te Moana road.

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Stormwater upgrades required to develop area, likely to necessitate reticulation upgrades

#### Kena KenaLocal Centre(UI-PA-01)





low lying area behind dune scape with significant localised ponding backwater influence from waikanae reserve



Upgrade scale unlikely to necessitate Localised gravity network that pumps storage upgrades back towards WWTP. Good water supply networks. Potential for local pumpstation upgrades

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

Significant issues with stormwater management in the area low lying area likely to subject to the influence of sea level rise. Relatively well served by water and wastewater networks.

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Limited options to deal with backwater influence of elevated sea levels. Potential to stormwater pumpstation and associated reticulation upgrader

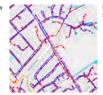
#### Mazengarb Local Centre(U,-PA-02





2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Flood sensitive, need for compensatory storage Compensatory storage likely require



Reasonably well connected for water Good connection in close proximity to supply WWTP

Given pre-existing nature of flooding, compensatory storage likely required

Known area of flooding and levels to be established to ensure clear of floodplain. Relatively well served for water and wastewater



mu BeachTown Centre(UI-PA-03)



localised (volcano) stormwater catchments

constraints adjacent to stream

areas with limited network reliance on soakage in some areas localised ponding zones adjacent to development areas



od water coverage

undulating topography and localised pumpstations with rising main connections storage requirements to be confirmed.

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

Constraints likely in establishment of floor levels. Localised upgrades would likely be required to wastewater network and pumpstations. Storage implications to be confirmed holistically.

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

#### Given pre-existing nature of flooding, compensatory storage likely required in designated flood areas

#### vsLocal Centre(UI-PA-04)





pre-defined storage areas constraints adjacent to stream signated stoarge area



Reasonably well connected for water Sood connection in close proximity to wWTP

Known area of flooding and levels to be established to ensure clear of floodplain. Relatively well served for water and wastewater

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Designated stormwater areas to be accomodated into design

#### Raumati BeachTown Centre(UI-RB)





recent stormwater upgrades and pumpstation for CBD constraints adjacent to wharemauku localised ponding in school grounds stage 2 works pending



wastewater networks daisy chains. Localised constraints to be confirmed localised network upgrade required

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

Constraints with sea level rise in proximity of stream. Ability of wastewater network to accommodate peak flows. Storage and pump capacity to be confirmed.

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

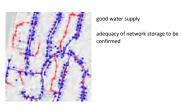
Development viable through area.

Raumati SouthLocal Centre(UI-RS)





localised (volcano) stormwater catchments areas with limited network reliance on soakage in some areas undulating dune scape



wastewater networks daisy chains. Localised constraints to be confirmed localised network upgrade required

1. Commentary on whether there are likely to be any significant issues or constraints for three waters infrastructure as a result of the increase in dwelling numbers identified by the theoretical yield;

Constraints likely to be in loading upper reaches of daisy chanied network. Storage and pump upgrades may need to be required. Localised low spots may necessitate formalised connection.

2. Commentary on the implications of these issues (i.e. what might need to be considered in terms of infrastructure planning to enable intensification).

Minor wastewater upgrades and stormwater connection

# Appendix 5: KCDC Walkable Catchment Methodology

Boffa Miskell Ltd | Kāpiti Coast Urban Development Intensification Assessment

### Walkable Catchment methodology

The Walkable Catchment maps were created by the Kapiti Coast District Council GIS team. The maps show the areas that can be reached on foot from rapid transit stops and from the edge of Metropolitan Centre, Town Centre and Local Centre zones. The methodology behind these maps is described below. The software ArcGIS Pro was used by the GIS team to do this work.

#### 1. Created a Kapiti walking network

Before walking areas can be determined, a digital GIS walking network needs to be created. The KCDC GIS team did not have an existing walking network and enlisted a student to help with this task. He used the KCDC Aerial Photography (2021, 7.5cm per pixel) to manually digitise the walking network. The following walking route types were created:

- Footpaths
- Zebra crossings
- Controlled road crossings
- Uncontrolled road crossings
- Walking tracks
- Bridges
- Tunnels



Figure 1 - Walking Network in Paraparaumu

#### 2. Determined starting points (points to measure distance from)

Before a walkable catchment can be created, the points that we are measuring distance from need to be known. These were determined as follows:

#### • Train stations

These often have more than one entrance point. Each entrance point was used as a starting point when measuring distance.



Figure 2 - Starting Points for Paraparaumu Train Station

#### Metropolitan Centre / Town Centre Zones / Local Centre Zones

As these zones show an area rather than one single location, the starting points for these areas were taken to be the intersection of the walking network and the edge of these areas.



Figure 3 - Starting Points for Metropolitan Centre Zone

#### 3. Performed network analysis

The walkable catchments were determined by performing GIS network analysis for each rapid transit stop and for each Metropolitan, Town Centre, and Local Centre zone. The inputs to this tool that were used each time were as follows:

- Walking network
- Starting points
- Distance
  - o 200m from edge of Local Centre zones
  - o 400m from edge of Town Centre zones
  - o 800m from edge of Metropolitan zone
  - 400m and 800m from train stations

As the areas being measured are relatively flat, slope was not taken into consideration.

This tool created polygons (areas) showing how far a person could walk along the walking network from the starting points.

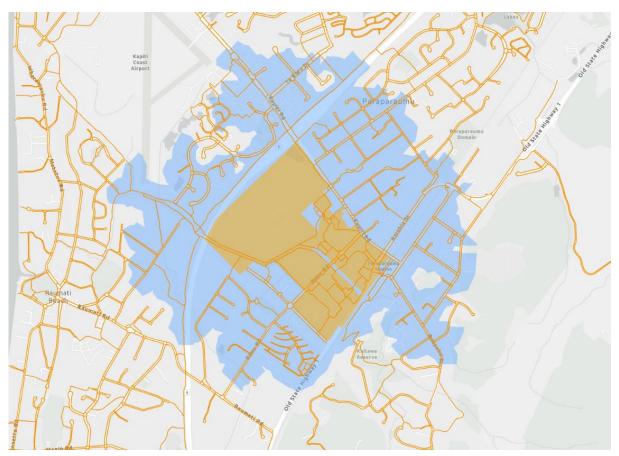


Figure 4 - Walking Catchment (blue) for the Metropolitan Centre Zone (orange)

# Appendix 6: Medium Density Residential Standards

The following table provides a summary of the existing provisions of the General Residential Zone, compared to the Medium Density Residential Standards. References to existing provision numbers are shown in [brackets]. Note that the General Residential Zone includes a number of precincts subject to bespoke provisions. These are not summarised in this table, but can be found in the online version of the Kapiti Coast District Plan.

	Existing General Residential Zone provision	Medium Density Residential Standards
Number of residential units per site	<ul> <li>Up to 4, provided that:         <ul> <li>Each residential unit is capable of being contained within its own allotment which complies with the subdivision standards;</li> <li>Each residential unit is separated by a distance of not less than 4.5m (except for attached residential units);</li> <li>Each residential unit must comply with the permitted activity standards under GRZ-R6.</li> </ul> </li> </ul>	There must be no more than 3 residential units per site.
Building height	<ul> <li>Maximum height of 8m above original ground level [GRZ-R6.7].</li> <li>Minor residential unit maximum height of 4.5m [GRZ-R.6.7.a]</li> </ul>	<ul> <li>Buildings must not exceed 11 metres in height, except that 50% of a building's roof in elevation, measured vertically from the junction between wall and roof, may exceed this height by 1 metre, where the entire roof slopes 15° or more.</li> </ul>
Height in relation to boundary	<ul> <li>2.1m vertically above ground level at the boundary, with a 45 degree recession plane. Applies to all boundaries, including the road boundary [GRZ-R6.8].</li> </ul>	<ul> <li>Buildings must not project beyond a 60° recession plane measured from a point 4 metres vertically above ground level along all boundaries.</li> <li>Does not apply to:         <ul> <li>A boundary with a road;</li> <li>Existing or proposed internal boundaries within a site;</li> <li>Site boundaries with a common wall.</li> </ul> </li> </ul>

	Existing General Residential	Medium Density Residential
	Zone provision	Standards
Setbacks	<ul> <li>3m setback from the road boundary generally (excluding any part of the primary residential building used as a garage) [GRZ-R6.11a];</li> <li>4.5m setback from the road boundary for garages, carports and covered vehcile storage areas [GRZ-R6.11a];</li> <li>For residential units: 3m setback from side and rear boundaries (except one side yard for front alotments may be 1.5m) [GRZ-R6.11c(i)];</li> <li>For accessory buildings: 1m setback from side and rear boundaries [GRZ-R6.11c(ii)];</li> <li>For non-residential buildings: 4m setback from side and rear boundaries [GRZ-R6.11c(ii)].</li> </ul>	<ul> <li>1.5m front yard;</li> <li>1m side yard;</li> <li>1m rear yard;</li> <li>No yard where there is a common wall between 2 buildings.</li> </ul>
Building	40% of total property area	• Maximum 50% of net site area.
coverage	excluding rights of way and access legs [GRZ-R6.5].	
Outdoor living space	<ul> <li>Minimum area 40m<sup>2</sup> [GRZ-R6.10a];</li> <li>Minimum dimension of 4m [GRZ-R6.10b];</li> <li>Located to the north, west or east of any primary residential building [GRZ-R6.10c];</li> <li>Screened by a fence or vegetation to provide privacy from the ground floor windows and the outdoor living space of other primary residential buildings [GRZ-R6.10d];</li> <li>Direct access to an internal habitable room in the primary residential building [GRZ-R6.10e].</li> </ul>	<ul> <li>Outdoor living space for residential units at the ground floor level:         <ul> <li>Minimum area 20m<sup>2</sup>;</li> <li>No dimension less than 3m;</li> <li>Must be accessible from the residential unit;</li> <li>May be:                 <ul> <li>Grouped cumulatively by area in 1 communally accessible location; or</li> <li>Located directly adjacent to the unit.</li> <li>Must be free of buildings, parking spaces, servicing and manoeuvring areas.</li> <li>Outdoor living space for residential units above ground floor level:</li></ul></li></ul></li></ul>

	Existing General Residential	Medium Density Residential
	Zone provision	Standards
Outlook space	No existing outlook space requirements.	Grouped cumulatively by area in 1 communally accessible location; or Located directly adjacent to the unit. An outlook space must be provided from habitable room
		<ul> <li>The minimum dimensions for a required outlook space are as follows: <ul> <li>a principal living room must have an outlook space with a minimum dimension of 4 metres in depth and 4 metres in width; and</li> <li>all other habitable rooms must have an outlook space with a minimum dimension of 1 metre in depth and 1 metre in width.</li> </ul> </li> <li>The width of the outlook space is measured from the centre point of the largest window on the building face to which it applies.</li> <li>Outlook spaces may be within the site or over a public street or other public open space.</li> <li>Outlook spaces may be under or over a balcony.</li> <li>Outlook spaces may be under or over a balcony.</li> <li>Outlook spaces may be under or over a balcony.</li> <li>Outlook spaces must— <ul> <li>be clear and unobstructed by buildings; and</li> <li>not extend over an outloor in outlook space or outdoor</li> </ul> </li> </ul>
Windows to street	No existing windows to street requirements.	<ul> <li>living space required by another dwelling.</li> <li>Any residential unit facing the street must have a minimum of 20% of the street-facing façade</li> </ul>

	Existing General Residential Zone provision	Medium Density Residential Standards
Landscaped area	No existing landscape area requirements.	<ul> <li>in glazing. This can be in the form of windows or doors.</li> <li>A residential unit at ground floor level must have a landscaped area of a minimum of 20% of a developed site with grass or plants, and can include the canopy of trees regardless of the ground treatment below them.</li> <li>The landscaped area may be located on any part of the development site, and does not need to be associated with each residential unit.</li> </ul>
Minimum allotment size	<ul> <li>Raumati, Paraparaumu and Waikanae: 450m<sup>2</sup> (inclusive of access) [SUB-RES-R26.4];</li> <li>General Residential Zone at Ōtaki: 450m<sup>2</sup> for front lots, 550m<sup>2</sup> for rear lots, 700m<sup>2</sup> average (exclusive of access) [SUB-RES-R26.5].</li> <li>Lots must accommodate an 18m diameter circle [SUB- RES-R26.6].</li> <li>General residential zone at Paekākāriki, Peka Peka and Te Horo: 950m2 [SUB-RES- R27.2a].</li> <li>General residential zone at Õtaki Beach: 450m2 minimum with 600m2 average (exclusive of access) [SUB-RES-R27.2].</li> <li>Lots must accommodate an 18m diameter circle [SUB- RES-R27.3].</li> </ul>	<ul> <li>No minimum lot size, shape or other size-related requirements, for the following types of subdivision:         <ul> <li>Subdivision where there is an existing residential unit, if the subdivision does not increase the degree of any non- compliance with the building standards;</li> <li>Subdivision where residential units are approved under a land use resource consent and no vacant allotments are created.</li> </ul> </li> </ul>

#### About Boffa Miskell

Boffa Miskell is a leading New Zealand professional services consultancy with offices in Auckland, Hamilton, Tauranga, Wellington, Christchurch, Dunedin and Queenstown. We work with a wide range of local and international private and public sector clients in the areas of planning, urban design, landscape architecture, landscape planning, ecology, biosecurity, cultural heritage, graphics and mapping. Over the past four decades we have built a reputation for professionalism, innovation and excellence. During this time we have been associated with a significant number of projects that have shaped New Zealand's environment.

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