

# Anticipated Environmental Results

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## 1 Environmental Results Anticipated and Monitoring Measures

*The following defines the environmental results anticipated from the Objectives and Policies of this District Plan. The measures that are proposed to be monitored have also been identified. The outcomes from the monitoring will be reported five yearly as part of assessing the effectiveness of the District Plan.*

### Urban

- 1.1 Future residential growth will be consistent with the directions in the District Growth Strategy 2009.
- Measure: More than 80% of new population and dwelling growth to be located within the urban limits identified for Cambridge, Te Awamutu and Kihikihi and the rural villages of Pirongia, Ohaupo, Ngahinapouri, Te Pahu, Rukuhia, Karāpiro, Te Miro and Pukeatua.
- 1.2 The density targets identified within Waipa 2050 District Growth Strategy will be achieved within the new growth areas of the urban towns of Cambridge and Te Awamutu.
- Measure: Structure Plans: The new green field subdivision within structure plan areas shall achieve an average density of 12-15 houses per hectare.
- 1.3 Reduced reliance on Hamilton City for providing employment to the District's residents.
- Measure: Monitor the rate of uptake of Industrial and Commercial Zoned land in the District.
- 1.4 Increased diversity of housing types is provided for in the community, based on both lot size and dwelling type.
- Measure: Annual review of building consents recording the number of apartments, units, dwellings, attached dwellings, compact, and multi unit housing types.
- 1.5 Public comfort that the amenity values of the residential areas is being maintained and enhanced.
- Measure: Annual review of public complaints, submissions to the Long Term Plan regarding nuisance matters, annual residents' survey feedback.
- 1.6 Declining numbers of resource consents seeking non-compliance with general and specific standards.
- Measure: Annual review of resource consent applications.
- 1.7 New development does not result in any unexpected effects on the efficiency and effectiveness of existing infrastructure.
- Measure: Annual review of asset as-built construction plans relative to Asset Management Plans for the infrastructure services, monitoring of asset performance.

### Rural

- 1.8 Reduced fragmentation of rural land resulting from lower levels of residential growth occurring within the rural area.
- Measure: Less than 20% of the District's additional population growth will occur outside of the urban towns and rural villages identified within Waipa 2050 District Growth Strategy.

This will be measured by way of new dwelling consents. The rural area is used primarily for primary production purposes.

- Measure: The area used for productive purposes not decreasing.

1.9 The number of new developments within the rural environment that are not reliant on the rural land resource are reduced.

- Measure: Annual review of resource consents for non-rural activities in the Rural Zone.

1.10 Non-farming activities are not located on high class soils.

- Measure: Area of land removed from productive use by non-farming activities on high class soils.

1.12 Provision is made to protect access to mineral resources and to provide for mineral extraction activities where this is undertaken in a manner that avoids, remedies or mitigates any effects on the environment and on the amenity of adjoining land uses, as far as practicable.

- Measure: Review of public complaints.
- Measure: Monitoring of compliance with resource consent conditions.

1.13 Public comfort that the amenity values of the rural areas is being maintained and enhanced.

- Measure: Annual review of reverse sensitivity complaints (noise, odour).

#### **Development and Subdivision**

1.14 Reduced fragmentation of rural land resulting from lower levels of residential growth occurring within the rural area.

- Measure: Less than 20% of the District's additional population growth will occur outside of the urban towns and rural villages identified within Waipa 2050 District Growth Strategy. This will be measured by way of new dwelling consents.

1.15 Land will be subdivided in a manner which is best suited to its proposed use and development while protecting the environment, promoting the amenities of the neighbourhood and maintaining appropriate opportunities for its future use and development. Monitor density and clustering of large lot residential in Class IV-VII land.

- Measure: Annual monitoring of the number of new lots developed and building consents issued by land use activity and zone.

1.16 Low-impact stormwater design becomes standard practice particularly through provisions in the Regional Infrastructure Technical Specifications.

- Measure: Annual review of completed Council Stormwater Management Plans for urban catchments and percentage of new lots having low impact stormwater design.

#### **Transportation**

1.17 There will be an increased use of walking, cycling and public transport in urban areas resulting in the reduction in Vehicle Kilometres Travelled per capita.

- Measure: Annual review of public transport.

1.18 Five yearly review of 'journey to work' question in the Census.

- Measure: Annual residents' survey.

### **Natural Hazards**

1.19 No new development in areas of significant natural hazard risk.

- Measure: Annual review of building permit details for such areas and the number granted with and without detailed hazard analysis.

### **Protection**

1.20 Subdivision and development of land undertaken in a manner which does not adversely affect any nominated/scheduled existing landscape characteristics or the heritage value of sites, buildings, places, or areas including Māori ancestral land, water sites, wāhi tapu and other taonga sites; and in addition these elements shall be protected through opportunities provided for within the Plan.

- Measure: Annual review of resource consents.

1.21 Number of lots created as a result of Transferable Development Rights.

- Measure: Annual monitoring of significant natural areas and adjacent development.
- Measure: Annual report on resource consents in outstanding landscapes and high amenity value landscapes.

1.22 There is an increase in the area set aside for biodiversity protection purposes as a result of the protection lot provisions.

- Measure: Annual review of number, location and scale of protection lots created by the various protection measures.

1.23 The quality of the District's water bodies is improved.

- Measure: Annual review of Waikato Regional Council environmental monitoring reports.

1.24 Access to water bodies is not reduced as a result of development.

- Measure: No waiver of esplanade reserves or strips on subdivisions.

### **Recreation**

1.25 New recreation land is provided for within new growth areas in locations that are readily accessible to those within the new growth areas.

- Measure: Review of structure plans at plan change stage.
- Measure: Annual review of subdivision consents resulting in vesting of reserves for consistency with structure plans and Town Concept Plans.
- Measure: The proximity of new reserves (in terms of walking distance) from new development areas.

1.26 To provide for passive recreation and reserve needs of the community in a way that sustains the reserve and its environmental qualities for use by future generations.

- Measure: Review of structure plans at plan change stage.

- 1.27 To provide for active recreation and reserve needs of the community in a way that sustains the functional efficiency of the reserve to cater for a number of passive and active reserve activities.
- Measure: Review of structure plans at plan change stage.
  - Measure: Annual residents' survey.

#### **Large Lot Residential**

- 1.28 Large Lot Residential development occurring in a manner that does not adversely affect the environment and at locations consistent with Waipa 2050.
- Measure: Annual review of plan changes and resource consents by Rural Zone and Large Lot Residential Zone.
- 1.29 There is an increase in the area set aside for biodiversity protection purposes as a result of the protection lot provisions.
- Measure: Annual review of number, location and scale of protection lots created by the various protection measures.
  - Measure: The quality of the District's water bodies is improved.
- 1.30 Annual review of Waikato Regional Council environmental monitoring reports.

#### **Reserves**

- 1.31 New recreation land is provided for within new growth areas in locations that are readily accessible to those within the new growth areas.
- Measure: Development or review of Reserve Management Plans and Reserve Concept Plans.
  - Measure: Annual residents' survey.

#### **Airport Business Zone (Titanium Park)**

- 1.32 High standards of visual amenity and landscaping within the zone and at the zone boundaries where it adjoins Rural Zoned land and existing dwellings.
- Measure: Review of resource consents and development plans.
- 1.33 Avoidance or appropriate protection of new activities sensitive to aircraft noise within the Airport Business Zone.
- Measure: Annual review of resource consents and building consent plans within the zone and adjacent to it.

#### **Lake Karāpiro Events Zone**

- 1.34 That the effects of reserve users, users of associated recreational waters and associated structures, do not compromise water quality or ecological values of Lake Karāpiro, or detrimentally affect the significant landscape values and amenity of the wider rural environment.
- Measure: Review the effects of temporary activities.

### **Karāpiro and Arapuni Hydro Power Zone**

- 1.35 Minimal conflict with other activities, particularly new subdivision, use and development that could adversely affect the safe and efficient functioning of the hydro-energy generation facilities.
- Measure: Review of public complaints.

### **Temporary Activities**

- 1.36 Temporary activities occurring without significant adverse effects on the environment.
- Measure: Review of public complaints.
  - Measure: Annual residents' survey.

### **Works and Utilities**

- 1.37 That the provision of utility services, by either the service operator or individuals, are efficiently and effectively provided for while not adversely impacting on the: environment, in particular the amenities contained in outstanding and other specified landscapes; and the biodiversity values of the District.
- Measure: Review of public complaints and monitoring of resource consent conditions.

### **National Electricity High Voltage Network**

- 1.38 The on-going operation, maintenance, upgrading and development national electricity high-voltage network traversing the Waipā District will be protected from inappropriate subdivision and development.
- Measure: Continued reliable and secure supply of electricity to the Waipā District.

### **Activities on the Surface of Water**

- 1.39 Activities on the surface of water are undertaken in a manner that avoids, remedies or mitigates adverse effects on the natural values of the waterbody, and on the amenity of adjoining land uses.
- Measure: Review of public complaints.

### **Signs**

- 1.40 Signs shall be effective and compatible with the amenity values of the surrounding environment and which has minimal impact on traffic and pedestrian safety. Review of public complaints.
- Measure: Review of enforcement actions (and compliance with District Plan requirements).

### **Hazardous Substances and Contaminated Sites**

- 1.41 That people, property and the environment are protected from the potential adverse effects of the use, handling, storage, transport and disposal of hazardous, including radioactive substances and that hazardous facilities and sub-facilities are developed and operated in a manner which minimises the risk of an accidental release, or loss of control of hazardous substances.
- Measure: Review of public complaints.
  - Measure: Monitoring of compliance with resource consent conditions.

- Measure: Review of recorded hazardous substance “incidents” and any enforcement actions taken.

### **Earthworks**

- 1.42 Any modifications to existing landforms within the District as a consequence of the subdivision and development of land are carried out in a manner which does not give rise to any hazard or generate any adverse effects on the environment, people and communities.
- Measure: Review of public complaints.
  - Measure: Review of effect of earthworks within outstanding natural features and landscapes and high value amenity natural features and landscapes.

### **Odour, smoke, fumes and dust**

- 1.43 Odour, smoke, fumes and dust from any activities will be controlled to a level so as to minimise any nuisance effects.
- Measure: Review of public complaints.

### **Glare and Lighting**

- 1.44 Glare from any activities will be controlled to a level so as to minimise any nuisance effects.
- Measure: Review of public complaints.

### **Noise**

- 1.45 Ensure that the community is protected from the adverse effects of noise and vibration.
- Measure: Review of public complaints.

### **Biodiversity**

- 1.46 There is no net loss in the extent of vegetation cover of the District.
- Measure: 5 yearly assessment and change analysis of the “Bioveg” and SNA dataset based on updated aerial photos.