

# RESOURCE CONSENT



HAMILTON OFFICE  
3 Cook Street, Hamilton  
PO Box 4010, Hamilton East  
Telephone 07 856 7184  
Facsimile 07 856 0551

File Number: 60 55 42A  
Resource Consent Number: 930464

TAUPO OFFICE  
283 Broadlands Road, Taupo  
Telephone 07 378 6539

TE AROHA OFFICE  
59 Whitaker Street, Te Aroha  
Telephone 07 884 8099

**Pursuant to the Resource Management Act 1991, the Waikato Regional Council (hereinafter referred to as the Council), hereby grants consent to:**

Taupo District Council  
Attention: Mike Keys  
Private Bag 2005  
TAUPO

(hereinafter referred to as the Grantee)

**This consent authorises the Grantee to:**

- i) up to 9000 cubic metres of treated municipal waste water per day from the Taupo urban area onto land; and,
- ii) gases and aerosols from sewage treatment and spray irrigation operations into the air,

in the vicinity of Rakaunui Road at or about map reference NZMS 260 U18 804 787

**On the land described as:** that land contained within Part Section 1, SO Plan 58810, Block II Tauhara Survey District

**For a term to expire on:** 31 December 2015

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- a) All activities authorised by this permit shall be undertaken in accordance with the principles contained in that document titled "Assessment of Environmental Effects: Proposed Land Treatment System for Sewage Effluent: Taupo" - a report prepared for Taupo District Council, by Woodward - Clyde, dated June 1993; as provided in support of the application for this permit.

### CONSTRUCTION

- b) The Grantee shall retain persons with recognised documented experience in the construction and rehabilitation fields to prepare a management plan detailing the procedures to be put in place to control stormwater and suspended sediment on this site during the construction of this wastewater treatment and disposal facility. This management plan shall have as its primary objective the minimising of the potential for the generation of sediment laden runoff from this site during construction works.

The management plan shall address the following aspects of construction works:

- 1 Sequencing and programming of earthworks;
- 2 Earthworks procedures to be adopted during construction;
- 3 Management and maintenance of silt control structures;
- 4 Post construction rehabilitation of all disturbed lands.

This management plan shall be submitted to the Council for the Council's written approval prior to construction works commencing.

- c) In the event that archaeological remains are discovered during construction activities, those activities will cease immediately and a representative of Ngati Tahu and Ngati Tuwharetoa shall be notified.

### OPERATIONAL PARAMETERS

- d) All activities authorised by this permit shall be undertaken in such a manner that they do not produce a detectable objectionable odour at or beyond the outer boundary of the land to which this permit relates.
- e) The Biochemical Oxygen Demand of the treated waste water discharged onto the ground, as determined from any 24 hour flow weighted sample shall not exceed a concentration of 100 grams per cubic metre at all times.
- f) The median faecal coliform concentration of the treated waste water discharged as determined from not less than 5 samples taken over not more than a 30 day period shall not exceed  $3.0 \times 10^6$  colonies per 100 millilitres.
- g) The nitrogen load in the treated waste water discharged onto the land shall not exceed 640 kilograms per hectare per year.

- h) There shall be no surface runoff of wastewater from the treatment facilities or the disposal area at any time. To this end wastewater shall not be discharged at times which include when frost conditions exist in the disposal area and when the rainfall intensity in the disposal area exceeds 0.5 millimetres per minute.
- i) The disposal area shall not be grazed by stock, and crop grown in the disposal area shall be harvested and removed from the disposal area.
- j) The maximum rate at which waste water is applied onto the land at any location in the disposal area shall not exceed 35 millimetres per week.
- k) Irrigation shall not be undertaken within 20 metres of the irrigation area boundary at any time, or within the buffer area provisions identified in the Operations Manual developed under condition n) below, unless the owner of that property authorises a lesser separation, in writing.

### **TREATMENT SYSTEM DESIGN, CONSTRUCTION AND MANAGEMENT**

- l) The Grantee shall retain a registered engineer with appropriate experience to supervise the development of a detailed design for the proposed waste water treatment and disposal facilities, including all linkages to, and modifications to the existing Pollution Control Plant. This engineer shall provide a report describing the works to be constructed, stating that the works have been suitably investigated and designed in accordance with good engineering practice. A copy of this report shall be provided to the Council prior to the commencement of construction of the treatment and disposal facility.
- m) The Grantee shall retain a registered engineer with appropriate experience to supervise the construction of the wastewater treatment and disposal facilities. This engineer shall provide a construction certificate stating that the works have been undertaken in accordance with good engineering practice. A copy of this certificate shall be provided to the Council prior to the exercise of this permit.
- n) The Grantee shall retain a suitably qualified and experienced person to supervise the compilation of an Operations Manual for the sewage treatment and disposal facilities. This Manual shall be developed in consultation with representatives of parties with an interest in the environment in the vicinity of the disposal area, including Tasman Lumber and Lakeland Health. This Manual shall address at least the following matters:
  - i) A comprehensive description of the treatment and disposal facility;
  - ii) A discussion of the methods to be utilised to monitor the treatment and disposal activities in an operational sense including:
    - monitoring of influent waste water
    - monitoring of treatment processes
    - monitoring of disposal site conditions including wind speed and direction, rainfall and frost conditions
  - iii) Management responses to wind speed and direction, rainfall and frost conditions on the site;
  - iv) Develop buffer zone provisions downwind of irrigation areas to ensure there are no unacceptable health risks to land users on adjacent properties;

- v) Development, management and maintenance of the disposal area including spray disposal infrastructure, tree planting and other aspects of the buffer zones;
- vi) Crop management procedures;
- vii) Crop harvesting procedures, including the measures to be adopted to ensure that consumption of the product produced from that crop, will not produce unacceptable health risks;
- viii) Management procedures and lines of responsibility;
- ix) Maintenance procedures to be followed;
- x) Contingency measures in place to deal with unusual events;
- xi) Sludge management;
- xii) Description of the effects monitoring to be undertaken;
- xiii) Other actions necessary to comply with the provisions of this permit;
- xiv) Reporting procedures; and,
- xv) Procedures for improving and/or reviewing the operations manual.

The Manual shall be to a standard satisfactory to the Council and shall be forwarded to the Council prior to the exercise of this permit.

- o) The wastewater treatment system shall be operated, maintained and managed in accordance with the Operations Manual accepted by the Council, or any subsequent update to that Manual as accepted by the Council in writing.
- p) In the event that compliance with condition (d) above is in question, an "odour incident" will have occurred. In this regard, an odour incident will have occurred if:
  - i) The Waikato Regional Council (the Council) determines it has, or
  - ii) No less than three individuals determine in writing that an objectionable odour was detected, provided that the Council is satisfied that this declaration is not vexatious. That declaration shall include the individuals' names and addresses, the date and time the objectionable odour was detected, the location where the objectionable odour was detected. The declaration shall be signed and dated.

Upon determination of an odour incident, the Grantee shall consult with the determiner and the Council, and if required by the Council, shall provide the Council with the following details in writing within 48 hours:

- 1 the cause of the odour
- 2 the events leading to the production of odour
- 3 contingency measures taken in attempting to prevent odour generation and the success of these procedures
- 4 mitigation and remedial action to be taken by the Grantee to reduce and minimise the odour to acceptable levels
- 5 an estimate of the time required to reduce and minimise the odour to acceptable levels

The Grantee shall take all reasonable and practical steps to eliminate the odour worthwith.

## MONITORING

- q) The Grantee shall install a suitable device to measure the volume of effluent discharged onto the ground.
- r) The Grantee shall determine the quality, quantity and variability of the treated waste water discharged onto the ground under the provisions of this permit to the satisfaction of the Council. To this end, the Grantee shall unless otherwise provided by the Council, following consultation with the Grantee, undertake the following determinations:
- (i) Determine the Biochemical Oxygen Demand (BOD) concentration of a 24 hour composite sample at least once a week.
  - (ii) Determine the faecal coliform and enterococci concentration of not less than five samples taken over no more than a 30 day period at least once a month.
  - (iii) Determine the total nitrogen load discharged on a daily basis by reference to at least one 24 hour composite sample taken at least once a week.
  - (iv) Determine the Total Phosphorus load discharged on a daily basis by reference to at least one 24 hour composite sample taken at least once a month.

The results of these determinations shall be provided to the Council at three monthly intervals.

- s) The Grantee shall retain an appropriately experienced person to supervise development of a monitoring programme to evaluate the environmental effects of this discharge. As a minimum this programme shall contain details on the following:
- i) monitoring to be undertaken to assess the effects of this discharge on soil structure and health of pasture species.
  - ii) monitoring of ground water levels within the discharge site and the immediate vicinity of the discharge site.
  - iii) Monitoring of ground water quality both within the disposal site and adjacent to the disposal site utilising lysimeters, piezometers and seeps and analysing that waste for nitrogen nutrients, phosphorus nutrients and bacterial quality. As such it is envisaged that this work would be directed at confirming that phosphorus nutrients and bacterial material in the waste water was not entering the ground water below the disposal site; and confirming and refining the nitrogen budget that has been postulated for this operation.
  - iv) Monitoring to check for surface water runoff and analysing any runoff for organic, nutrient and bacterial contamination.
  - v) Investigations/research associated with optimising various site and operational parameters to minimise the leaching of nitrogen nutrients from the site.
  - vi) Monitoring for odour associated with the treatment and disposal operations.
  - vii) Monitoring of the "health" quality of product produced from the disposal area crop.
  - viii) Monitoring of any health effect associated with the disposal operations.
  - ix) Reporting intervals and format.
  - x) Review of the monitoring programme.

Items (vii) and (viii) shall be developed in consultation with representatives of Lakeland Health. This programme shall be developed to a standard acceptable to the Council prior to the exercise of this permit.

- t) The Grantee shall undertake the monitoring programme developed in accordance with condition (s) above.
- u) The Grantee shall utilise the best practicable option to minimise the amount of nitrogen which can exit in the ground water from the disposal site.
- v) The Grantee shall retain an appropriate person to investigate improvement and advancements in technology applicable to the facilities in place on this site to minimise the effects of the exercise of this permit on the environment, and report the findings of those investigations to the Council by 31 December 1998 and at five yearly intervals thereafter. Such reports shall be to a standard acceptable to the Council.
- w) The Council may review the conditions of this permit:
- i) at any time to implement the findings from the investigations undertaken in accordance with the provisions of condition (v) above; and
  - ii) at five yearly intervals from the date of granting of this permit;
- or the purpose of dealing with any adverse effects on the environment arising from the exercise of this permit.
- x) The Grantee shall pay to the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act, or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act.

Dated at Hamilton this ..... 30th ..... day of ..... August ..... 1994 .....

For an on behalf of the  
Waikato Regional council

*M E Poole*

for Secretary

**SCANNED**