

# ***Resource Consent Certificate***

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**Resource Consent Number:** 107446

**File Number:** 60 25 22A

***Pursuant to the Resource Management Act 1991, the Waikato Regional Council  
hereby grants consent to:***

Hauraki District Council  
P O Box 17  
PAEROA 2951

*(hereinafter referred to as the Consent Holder)*

**Consent type:** Discharge permit

**Consent subtype:** Discharge to water

**Activity authorised:** Discharge up to 250 cubic metres per day of treated sewage effluent to Waihou River in the vicinity of Abattoir Rd, Turua

**Location:** Abattoir Rd – Turua

**Map Reference:** NZMS 260 T12:389-364

**Consent duration:** Granted for a period expiring on 1 May 2018

***Subject to the conditions overleaf:***

## CONDITIONS

1. The wastewater treatment and disposal system shall be operated and maintained in general accordance with the application for this resource consent and the document titled "**Turua Wastewater Discharge Consent Renewal AEE**", dated May 2002, prepared by Montgomery Watson Harza Limited, unless inconsistent with the activity authorised or the resource consent conditions below.
2. The consent holder shall ensure that the treatment plant is managed and operated by an appropriately trained operator.
3. The consent holder shall ensure contractors are made aware of the conditions of this resource consent and ensure compliance with those conditions.
4. The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act, 1991 or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act, 1991.
5. The maximum volume of treated wastewater discharged shall not exceed 250 cubic metres on average over a 24 hour period. This shall be measured by readings of the meter at least every four days (or less) and taking the average over the four day (or less) period.
6. The consent holder shall measure the permeability of the soil prior to the commencement of construction. Should it be greater than  $1 \times 10^{-7}$  metres per second, the floor of the pond shall be reworked and compacted to a permeability of  $1 \times 10^{-7}$  metres per second.

The consent holder shall construct the liner of the maturation pond in accordance with accepted engineering practices. To this end the consent holder shall, unless otherwise required by the Waikato Regional Council in writing following consultation with the consent holder, provide a written report to the Waikato Regional Council detailing the "as-built" details of the maturation pond liner.

7. The consent holder shall meet condition 8 of this consent following the installation and commissioning of the maturation pond and rock filters at the treatment plant or from 1 July 2006 whichever occurs first. Prior to this time condition 8 shall not apply and the consent holder shall apply the following discharge standards. The consent holder shall ensure that the quality of the discharge prior to entering the Waihou River is equal to or less than the concentrations outlined in the tables below as follows:

Parameter	Median Discharge Quality	Ninety Percentile Discharge Quality
<b>cBiochemical Oxygen Demand (g/m<sup>3</sup>)</b>	38	47
<b>Suspended Solids (g/m<sup>3</sup>)</b>	84	170
<b>Ammoniacal Nitrogen (g/m<sup>3</sup>)</b>	23	35

Parameter	Median Discharge Quality	Ninety Percentile Discharge Quality
<b>Faecal coliforms (cfu/100mL)</b>	33, 000	370, 000

The median of the parameters shall be calculated from the preceding 10 samples taken. Compliance with the ninety percentile discharge quality standard shall be determined by not more than one sample result in the preceding 10 sample results being above the stated limit. The median and ninety percentile shall be based on every sample taken in accordance with

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monitoring conditions of this consent, any other samples taken of the discharge by the consent holder, and any samples taken by the Waikato Regional Council staff of the discharge where the results have been provided to the consent holder.

8. The consent holder shall ensure that the quality of the discharge prior to entering the Waihou River is equal to or less than the concentrations outlined in the tables below as follows:

Parameter	Median Discharge Quality	Ninety Percentile Discharge Quality
<b>cBiochemical Oxygen Demand (g/m<sup>3</sup>)</b>	35	50
<b>Suspended Solids (g/m<sup>3</sup>)</b>	50	170
<b>Ammoniacal Nitrogen (g/m<sup>3</sup>)</b>	20	35

Parameter	Median Discharge Quality	Ninety Percentile Discharge Quality
<b>Faecal coliforms (cfu/100mL)</b>	3, 000	40, 000
<b>E. coli (cfu/100mL) as determined by the process described in condition 10</b>	2, 000	28, 000

The median of the parameters shall be calculated from the preceding 10 samples taken. Compliance with the ninety percentile discharge quality standard shall be determined by not more than one sample result in the preceding 10 sample results being above the stated limit. The median and ninety percentile shall be based on every sample taken in accordance with monitoring conditions of this consent, any other samples taken of the discharge by the consent holder, and any samples taken by the Waikato Regional Council staff of the discharge where the results have been provided to the consent holder.

9. The consent holder shall characterise the quality, quantity and variability of the discharge to the satisfaction of the Waikato Regional Council. To this end the consent holder shall, unless otherwise required to do so by the Waikato Regional Council in writing following consultation with the consent holder, characterise and report on the discharge at a point prior to discharge as follows:
- a) Monitor by single grab sample for the following parameters: total phosphorus, biochemical oxygen demand, suspended solids, ammoniacal nitrogen, total nitrogen, and pH.
  - b) *Faecal coliforms* shall be monitored by single grab sample until after the upgrade is completed. After the upgrade is completed, both *Faecal coliforms* and *E.coli* shall be monitored for a period of 12 months by single grab sample, after which time only *E.coli* shall be monitored by single grab sample.
  - c) Monitoring shall be on a monthly basis and prior to, and during, the upgrade from the outlet of the oxidation pond, and upon completion of the upgrade from the outlet of the maturation pond (after the final rock filter).
10. The consent holder shall report to the Waikato Regional Council within three months of both *E.coli* and *Faecal coliform* monitoring required by condition 9(b) being completed. This report shall include a recommendation based on this monitoring for a median and a (1 in 10) 90 percentile *E.coli* limit to replace the *Faecal coliform* limit in condition 8 by written agreement from the Programme Manager, Utilities Programme of the Waikato Regional Council.
11. Within two years of the granting of this consent, the consent holder shall present a report to the Waikato Regional Council detailing the concentrations of Total Ammoniacal Nitrogen in the Waihou River in the vicinity of the discharge. As a minimum, this report shall be based on

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sampling of the Waihou River, conducted during a period of low flow, to show Total Ammoniacal Nitrogen concentrations within 1 metre of the left and right river banks, at points approximately 20 metres upstream of the discharge, 50 metres downstream of the discharge, and 80 metres downstream of the discharge. The report shall analyse the sampling results in terms of actual mixing of effluent occurring, and in terms of the potential effect of Ammoniacal Nitrogen on aquatic biota in the vicinity of the discharge. The report shall be to the satisfaction of the Waikato Regional Council.

12. Notwithstanding the stated limits in conditions 7 and 8 of this consent, the consent holder shall make all reasonable and practical efforts to ensure that the final effluent quality is maximised within the capabilities of the treatment system in operation.
13. The consent holder shall ensure that after reasonable mixing the discharge does not cause any of the following effects:
  - a) The production of any conspicuous oil or grease films, scums, foams or floatable or suspended materials;
  - b) Any conspicuous change in the colour or visual clarity;
  - c) Any emission of objectionable odour;
  - d) The rendering of freshwater unsuitable for consumption by farm animals;
  - e) Any significant adverse effects on aquatic life.
14. All sample analyses shall be undertaken in accordance with the methods detailed in the "Standard Methods for the Examination of Water and Waste Water, 1998" 20<sup>th</sup> edition by A.P.H.A and A.W.W.A and W.E.F, or any other method approved in advance by the Waikato Regional Council.
15. The consent holder shall provide to the Waikato Regional Council and Ngati Maru, a written monitoring report by ~~1 June~~ 30 September each year that this consent is current. As a minimum this report shall include the following:
  - a) All data collected as required by condition 9 of this consent for ~~1 April to 31 March~~ 1 July to 30 June of the preceding year;
  - b) A summary of the monitoring results required by condition 9 of this consent for ~~1 April to 31 March~~ 1 July to 30 June of the preceding year and a critical analysis of the information in terms of compliance and environmental effects;
  - c) A comparison of data with previously collected data identifying any emerging trends;
  - d) Comment on compliance, and any reasons for non-compliance or difficulties in achieving compliance with conditions 7 or 8 (whichever is applicable) of this consent;
  - e) Comment on any works that have been undertaken, or that are proposed to be undertaken in the up-coming year, to improve the environmental performance of the treatment and/or disposal system;
  - f) Report on and discuss any complaints received regarding the treatment and/or discharge of treated effluent; and
  - g) Any other issues considered important by the consent holder.
16. The consent holder shall notify the Waikato Regional Council as soon as practicable and as a minimum requirement within 48 hours, of the consent holder becoming aware of any accidental discharge, plant breakdown, or other circumstances which are likely to result in the limits of this consent being exceeded. The consent holder shall, within 7 days of the incident occurring, provide a written report to the Waikato Regional Council identifying the exceedance, possible causes, steps undertaken to remedy the effects of the incident and measures that will be undertaken to ensure future compliance.

17. The consent holder shall provide the Waikato Regional Council with a management plan which details the procedures that will be implemented to operate in accordance with the conditions of this resource consent. This plan and any updated versions shall be formulated in consultation with Ngati Maru. This plan shall be lodged within six months of the commencement of this consent, and shall be reviewed and updated prior to the discharge occurring from the maturation pond and rock filter outlet. Following the discharge occurring from the maturation pond and rock filter the plan shall be reviewed as a minimum every two years that this consent is operative and updated if required. The plan shall address, but may not be limited to, the following:

- a) A description of the entire treatment system facility;
- b) A description of routine maintenance procedures to be undertaken;
- c) An outline of the methods to be utilised to monitor the treatment plant in an operational sense including:
  - monitoring of influent wastewater
  - monitoring of treatment performance
- d) Specific management procedures for the efficient functioning of the treatment system;
- e) Procedures for recording routine maintenance and all repairs that are undertaken;
- f) Contingency measures in place to deal with unusual events;
- g) Procedures for visual inspection of the ponds;
- h) Other actions necessary to comply with the requirements of this resource consent; and
- i) Procedures for improving and/or reviewing the management plan.

The consent holder shall manage the wastewater treatment and discharge in accordance with the management plan detailed in this condition. Any changes to the plan shall be confirmed in writing by the consent holder following consultation with the Waikato Regional Council and Ngati Maru. Changes to the plan shall be approved in writing by the Waikato Regional Council prior to any change being implemented.

18. The consent holder shall maintain and keep a complaints register for all complaints made about the treatment and disposal site received by the consent holder. The register shall record:

- a) The date, time and duration of the event/incident that has resulted in a complaint;
- b) Any corrective action undertaken by the consent holder in response to the complaint including actions taken to prevent similar events in the future;
- c) The location of the complainant when the event was detected;
- d) The possible cause of the event;
- e) The weather conditions and wind direction at the site when the event occurred; and
- f) The height of the Waihou River at the time the event occurred.

The register shall be available to the Waikato Regional Council at all reasonable times. Complaints received by the consent holder which may infer non-compliance with the conditions of this consent shall be forwarded to the Waikato Regional Council within 5 days of the complaint being received.

19. The consent holder shall construct and place a sign in the vicinity of the discharge to the Waihou River, in such a way that it is conspicuous to river users, advertising of the presence of the wastewater discharge.
20. The Waikato Regional Council may in the month following the third, sixth, ninth, and twelfth anniversary of the commencement of this consent, serve notice on the consent holder under section 128 (1) of the Resource Management Act 1991, of its intention to review the conditions of this resource consent for the following purposes:
- (a) to review the effectiveness of the conditions of this resource consent in avoiding or mitigating any adverse effects on the environment, in particular effects on the Waihou River water quality, from the exercise of this resource consent and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions; or
  - (b) if necessary and appropriate, to require the holder of this resource consent to adopt the best practicable option to remove or reduce adverse effects on the surrounding environment due to contaminants entering the Waihou River; or
  - (c) to review the adequacy of and the necessity for monitoring undertaken by the consent holder; or
  - (d) to require additional improvements to the wastewater treatment plant to reduce the level of nutrients in the discharge as a result of improved water quality upstream of the discharge; or
  - (e) to address any adverse effects on receiving waters from seepage occurring from the treatment system.

Costs associated with any review of the conditions of this resource consent will be recovered from the consent holder in accordance with the provisions of section 36 of the Resource Management Act 1991.

*Dated at Hamilton this 13 day of October 2003*

*For and on behalf of the  
Waikato Regional Council*



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