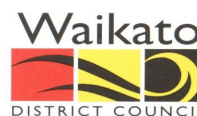


CONSENT MONITORING REPORT



Your Community Partner

Consent Name	Matangi Wastewater Treatment System
Consent No.	105551
Year	2008-09
Date	7 October 2009
File No.	55 06 13M

District Office
15 Galileo St, Private Bag 544
Ngaruawahia New Zealand
Ph 07 824 8633
Fax 07 824 8091
Call Free 0800 492 452
www.waikatodistrict.govt.nz

Area Offices
Huntly 07 828 7551
Raglan 07 825 8129

REPORT/COMMENTS

Matangi Wastewater Treatment System

The Waikato District Council holds resource consent to discharge up to 52 cubic metres of treated sewage effluent per day to ground from the Matangi wastewater treatment system. The consent has an expiry date of 30 September 2021.

In the 2007-2008 period a comparison with data from previous years suggested the wastewater treatment system was deteriorating. A project to replace the media in the recirculating sand filter and provide an additional disposal area was begun in June 2008. Overall performance for the reporting period July 2008 – June 2009 shows a significant improvement in overall results as a consequence.

Estimated Total Nitrogen was reported as 387 kg/yr for the 2007-2008 period. This was calculated from a calculated average TN of 36.8 mg/L and an average flow of 29 m³/day. This represents an application rate of 3710 kg/Ha.yr

Using the same method for 2008-2009 the average TN was 34.5 mg/L and an average flow of 36.9 m³/day gives an estimated Total Nitrogen discharge of 465 kg/yr or an application rate of 4429 kg/Ha.yr

If the Median Total Nitrogen of 11.44 kg/Ha.day and the Median averaged daily flow of 33.5 m³/day are used this gives an estimated Total Nitrogen application rate of 4176 kg/Ha.yr for 2008-09.

The nutrient mass load has not changed greatly despite the treatment quality performance improvement. In the previous period the greater proportion of the Total Nitrogen was comprised of the Total Kjeldahl Nitrogen and in the current period it is now largely comprised of Nitrate Nitrogen.

A comparison of the current period nutrient results for the three sampling bores versus the results for 2007-2008 shows little change in ground water quality.

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H Cameron
PLANTS ENGINEER

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R J Bax
GENERAL MANAGER
WATER & FACILITIES