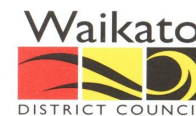


CONSENT MONITORING REPORT



Your Community Partner

Consent Name	Te Kauwhata Wastewater Treatment System
Consent No.	940355
Year	2009-10
Date	6 September 2010
File No.	USV03 / 55 06 19M

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Te Kauwhata Wastewater Treatment System

The Waikato District Council holds resource consent (940355) to discharge up to 1080 cubic metres of treated wastewater per day from the Te Kauwhata wastewater treatment plant to Lake Waikare.

A review of the consent conditions during the 2009-2010 reporting year indicated that the treatment system is meeting the water quality parameters of the resource consent and is having no more than a minor environmental effect.

Discharge water quality parameters generally remained the same as the previous reporting period.

The maximum consented discharge flow was exceeded regularly during periods of heavy rainfall. The maximum consented discharge flow was exceeded regularly for short durations in September, October, December, May and June during the reporting period.

The maximum daily flow was 2467 cubic metres per day in June 2010. The median maximum was 1051 cubic metres per day over the total reporting period. The monthly outflows for the reporting period are higher than the previous period. Some recent investigations have identified 10 properties with illegal stormwater connections to the sewer system. These have been disconnected.

The overall performance picture has remained good with improvement in median recorded values for suspended solids and ammoniacal nitrogen results.

Summary of Nutrient load discharged to Waikato River

Total Nitrogen applied to the Wetland

The 90th Percentile value was 5.91 kg/ha/day
Median value for the 2009/10 year was 2.74 kg/ha/day

Total Nitrogen discharged to Lake Waikare

The 90th Percentile value was 6.97 kg/day
Median value for the 2009/10 year was 1.14 kg/day

Total Phosphorous discharged to the Wetland

The 90th Percentile value was 1.57 kg/day
Median value for the 2009/10 year was 0.84 kg/day

Total Phosphorous discharged to Lake Waikare

The 90th Percentile value was 2.43 kg/day

Median value for the 2009/10 year was 1.82 kg/day

Summary of Treatment

The Aquamats system is providing very good treatment performance.

Pond Outlet Median Performance

cBOD5 < 10
TSS < 30
TN < 15
NH4-N <1
TP <5
FC <1000

Wetland Outlet Median Performance

cBOD5 < 5
TSS < 10
TN < 5
NH4-N <1
TP <5
FC <500

Carleys Transport continues to be monitored weekly for trade waste compliance to encourage reduced fertiliser or stock effluent washings going directly to the treatment plant. The Eel factory has been moved onto a trade waste consent.

The Wetland continues to contribute to the overall improvement of the discharge quality. The attached data tables demonstrate there is a general quality improvement from the pond 2 outlet and the wetland outlet sample values recorded.

An application to renew the resource consent was made on the 30 January 2008, six months prior to expiry. The application was notified and received a number of submissions in opposition. The application is on hold while consultation continues. Significant progress has been made on this and staff are expecting to propose draft consent conditions in the next 2 months.

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H Cameron
PLANTS ENGINEER

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R Bax
GENERAL MANAGER
WATER & FACILITIES