

CONSENT MONITORING REPORT



Your Community Partner

Consent Name	Huntly Wastewater Treatment System
Consent No.	951126 and 119647
Year	1 July 2012 – 30 June 2013
Date	17 September 2013
File No.	55 06 29M / USV03

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

Huntly Wastewater Treatment Discharge 1 July 2012 – 30 June 2013

The Waikato District Council holds the above resource consents associated with the treatment and discharge of wastewater from the Huntly sewage treatment plant located on the outskirts of the settlement. The resource consents issued by Waikato Regional Council include the following:

119647 Active after April 2012
To discharge up to 11500 cubic metres per day of treated wastewater from the plant after treatment subject to a number of conditions.

Treatment Performance and Consent Compliance

Treatment performance and compliance with consent conditions is documented on the attached Consent Report Table and Monitoring Results Spreadsheet. The worksheet labelled 'Trends' compares the current year to 30th June to the previous 4 years.

The graphs show that most criteria used for compliance have been within the required limits.

Analyses indicate that the effluent quality does not meet the requirements of the new consent in terms of suspended solids or *E.coli*. A UV treatment unit was installed and commissioned in mid September 2013. *E.coli* results are expected to be within required limits for the majority of 2013-14

Suspended Solids

The level of treatment received in a pond/wetland system was not conducive to removing suspended solids to levels required by the Huntly consent prior to the recent upgrade works. Final testing and commissioning of the upgrade works are not complete to enable an accurate assessment of performance against the consent conditions.

E.coli

The recent upgrade has included the installation of UV disinfection. The unit was commissioned in mid September 2013. The final sample point will now be moved to post the UV unit rather than after Pond 1. *E.coli* figures should be compliant from this point on.

There were no discharge quantity exceedances for 2012-13.

Decommissioning of the gravel filter and construction of a rock lined channel has been completed.

The combined discharge quality of the Huntly and Ngaruawahia treatment plants will be significantly improved in the 2013-14 compliance year with the installation and commissioning of new treatment steps at both plants. At Ngaruawahia, an 'Actiflo' treatment system has been installed to remove most of the suspended solids material from the effluent. This process will also significantly improve most other consent parameters. Ultraviolet disinfection has been installed at both sites.

Operational Comments

Septage Receiving Plant:

The plant screens and accepts septic tank waste but there are problems with the electronic swipe card system that we are working on.

Main Stepping Screen:

This works well and there have been no major problems. A change to the programming has seen an improved gross solid removal.

Aerators:

The existing aerators provide good dissolved oxygen levels.

Wetland and gravel lined channel:

These continue to assist with improving water quality There were no incidents of overflows from the wetlands during winter months.

Staff Maintenance Visits:

A dedicated staff member visits the site at least twice a week.

Inflow and Infiltration:

In excess of \$1m work to be carried out in the Dudley and Fraser catchments to replace ageing pipework and to carry out pump station improvements in the current financial year.

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P Seward
TREATMENT PLANTS ENGINEER

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L Larsen
OPERATIONS MANAGER