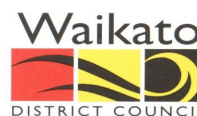


# CONSENT MONITORING REPORT



Your Community Partner

|              |   |
|--------------|---|
| Consent Name | Ngaruawahia Wastewater Treatment System |
| Consent      | 100972, 100973, 100974                  |
| Year         | 2007-08                                 |
| File No.     | 55 06 26M                               |
| Date         | 22 October 2008                         |

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## Compliance with Ngaruawahia resource consents – 100972, 100973, 100974 2007-08

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

- 100972. To discharge up to 5000 cubic metres per day of treated wastewater from the plant after treatment subject to a number of conditions.
- 100973. To discharge contaminants to air from the wastewater treatment plant.
- 100974. To construct and maintain an outflow diffuser on the bed of the Waikato river for the discharge of treated domestic wastewater.

### Summary

A review of the monitoring data for the 2007-08 year indicates that the performance of the wastewater treatment plant (WWTP) declined during the reporting period, compared with 2006-07. In relation to non-compliance with the consent conditions, the following points are made:

- Partially compliant BOD. The 90<sup>th</sup> Percentile value was 21 g/m<sup>3</sup>. Minimum 9 g/m<sup>3</sup>, Mean 16.9 g/m<sup>3</sup>, median value for the 2007-08 year was 17 g/m<sup>3</sup>. Maximum recorded value was 25 g/m<sup>3</sup> in March 2008
- Non-compliant FC. The 90<sup>th</sup> Percentile value was 227,000. Minimum 9000, Mean 217,000, median value for the 2007-08 year was 26,000 MPN per 100mL. Maximum recorded value was 2,000,000. Large numbers of wildfowl were present in the wetland through the summer period and the results may reflect this, however this WWTP is also subject to short-circuiting between inlet and outlet of the pond. This is being addressed in the current upgrade works begun in the 2007-08 year.
- Non-compliant DRP. The 90<sup>th</sup> Percentile value was 9.98 g/m<sup>3</sup>. Minimum 4.96 g/m<sup>3</sup>, Mean 7.3 g/m<sup>3</sup>, median value for the 2007-08 year was 7.7 g/m<sup>3</sup>. Maximum recorded value was 10 g/m<sup>3</sup>
- Non-compliance NH<sub>4</sub>-N. The 90<sup>th</sup> Percentile value was 30 g/m<sup>3</sup>. Minimum 20 g/m<sup>3</sup>, Mean 25 g/m<sup>3</sup>, median value for the 2007-08 year was 25.2 g/m<sup>3</sup>. Maximum recorded value was 33 g/m<sup>3</sup>. WWTP is subject to short-circuiting between inlet and

outlet of the pond reducing treatment residence time. This is being addressed in the current upgrade works begun in the 2007-08 year

A significant upgrade project for the Ngaruawahia wastewater treatment ponds has been approved by Council in September 2007 and work is now underway.

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H Cameron  
**Plants Engineer**

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R J Bax  
**Community Assets Group Manager**