

Consent Holder	Ravensdown Fertiliser Co-operative Limited	Consent No	DP040143W
Client Address	Private Bag 6012 Hawke's Bay Mail Centre NAPIER 4142	Site Address	808 Waitangi Road, Awatoto
Contact Name	Kevin Gettins	Phone	(06) 834 1760
Job Code	456-06	Mobile	021 900 292
		Consent Type	Discharge Permit

Activity Description:

to discharge contaminants into water for the purpose of disposing of stormwater, cooling water from air compressors and a hydraulic drive, water from drinking fountains and a truck wash, water from cooling towers and high pressure boilers, and rinse water from a boiler water treatment plant into the Tutaekuri River (Waitangi Estuary).

07-Oct-09	Monitoring Report Sent	Officer	Barbara McKenzie
26-Nov-10	Monitoring Inspection	Officer	Jim May

2010-2011 Statement of Compliance and Overall Grades:

Grade Date	01-Dec-10
Environmental Grade	Compliance
Technical Grade	Compliance

Overall Comments:

To date, full compliance with the conditions has been achieved.

Previous Statement of Compliance and Overall Grades:

Grade Date	30-Nov-10
Environmental Grade	Non Compliance
Technical Grade	Compliance

Overall Comments:

This report was prepared from monitoring data supplied by the consent holder for the 2009-2010 year. There was no site visit. The non-compliance relates to one low pH result for the year.

Refer to back page for grading information

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
1	Technical	All works and structures relating to this resource consent shall be designed and constructed to conform to the best engineering practices and at all times maintained to a safe and serviceable standard.
	Compliance	30-Nov-10
	Compliance	01-Dec-10 Observed to be the case.
2	Technical	The consent holder shall undertake all operations in accordance with any drawings, specifications, statements of intent and other information supplied

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
		as part of the application for this resource consent. If a conflict arises between any conditions of this consent and the application, the conditions of this consent will prevail.
	Compliance	30-Nov-10
	Compliance	01-Dec-10 Observed to be the case.
3	Environmental	For the purposes of this consent, the zone of reasonable mixing of the discharge, to which the Class AE (HB) receiving water quality standards does not apply, shall be the Ravensdown Drain and 90 m down the Awatoto Drain (GPS Co-ordinates N6175341, E2846875).
	Compliance	30-Nov-10
	Compliance	01-Dec-10 This is understood by the consent holder.
4	Environmental	<p>The consent holder shall ensure that the discharge complies with the following standards at the outlet of the settling pond, as shown on Figure 3 submitted with the application and attached:</p> <p>a) pH to be within 6.5 – 8.5.</p> <p>b) Fluoride not to exceed 30 mg/litre.</p> <p>c) Suspended Solids not to exceed 100 mg/litre.</p> <p>d) Rate of discharge not to exceed 265 litres /second.</p> <p>e) Total phosphorus:</p> <p>From the date of the commencement of this consent until 30 June 2012:</p> <p><input type="checkbox"/> Over any 12 month period the concentration of total phosphorus shall not exceed 35 mg/litre for more than 95% of the time;</p> <p><input type="checkbox"/> Over any 12 month period the concentration of total phosphorus shall not exceed 40 mg/litre for more than 99% of the time.</p> <p>From the 1st of July 2012:</p> <p><input type="checkbox"/> Over any 12 month period the concentration of total phosphorus shall not exceed 17 mg/litre for more than 95% of the time;</p> <p><input type="checkbox"/> Over any 12 month period the concentration of total phosphorus shall not exceed 22 mg/litre for more than 99% of the time.</p> <p>f) Soluble Reactive Phosphorus:</p> <p>From the date of the commencement of this consent until 30 June 2012:</p> <p><input type="checkbox"/> Over any 12 month period the concentration of soluble reactive phosphorus shall not exceed 30 mg/litre for more than 95% of the time;</p> <p><input type="checkbox"/> Over any 12 month period the concentration of soluble reactive phosphorus shall not exceed 35 mg/litre for more than 99% of the time.</p> <p>From the 1st of July 2012:</p>

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
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- Over any 12 month period the concentration of soluble reactive phosphorus shall not exceed 15 mg/litre for more than 95% of the time;
- Over any 12 month period the concentration of soluble reactive phosphorus shall not exceed 20 mg/litre for more than 99% of the time.

Non Compliance	30-Nov-10
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There was one low pH result(6.4), recorded for the year (5/11/09).

Compliance	01-Dec-10
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Results submitted in monthly reports by the consent holder show compliance with these requirements. Compliance for the whole season will be assessed after June 2011.

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| 5 | Technical | <p>The consent holder shall carry out the following monitoring programme at the consent holders expense:</p> <p>a) A sampling station shall be maintained at the outlet of the settlement pond and be accessible to the Council officers, or its agents at all times.</p> <p>b) A representative, flow-proportional, composite sample (sampled continuously over a period of 24 hours) shall be collected from the sampling station, referred to in Condition 5a, at least once per week and tested for the following parameters:</p> <ul style="list-style-type: none"> i) pH; ii) total phosphorus; iii) soluble reactive phosphorus; iv) fluoride; v) suspended solids <p>Results shall be recorded on a mass per unit volume of discharge basis and the volume of discharge shall also be recorded. The records shall be forwarded to the Council at monthly intervals, along with an assessment of compliance against condition 4.</p> <p>c) A representative, flow-proportional, composite sample (sampled continuously over a period of one week) shall be collected from the sampling station, referred to in Condition 5a, at six monthly intervals and tested for the following parameters:</p> <ul style="list-style-type: none"> i) total copper ii) total zinc iii) total cadmium iv) total chrome v) total aluminium vi) total sulphur <p>Results shall be taken on a mass per unit volume of discharge basis and the volume of discharge taken shall also be recorded. The records shall be forwarded to the Council at six monthly intervals.</p> <p>d) All sampling and surveys shall be carried out by a person suitably qualified</p> |
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Condition No.	Type of Condition	Consent Condition and Compliance Assessment
		and experienced in this field and authorised by the Council (Manager: Regulation).
		e) All analyses in accordance with conditions of this consent shall be carried out by an independently IANZ accredited laboratory and authorised by the Council (Manager: Regulation).
		f) The consent holder shall calibrate and operate any meters required for monitoring in accordance with the manufacturer's specifications, or to the reasonable satisfaction of the Chief Executive of the Hawke's Bay Regional Council.
	Compliance	30-Nov-10
	Compliance	01-Dec-10 A sampling station is available.
6	Technical	<p>Every fourth year starting from the commencement of this consent, the consent holder shall monitor the following components in the receiving environment at their expense:</p> <p>a) the structure of macrofaunal communities to determine both temporal and spatial changes in the community composition. Species diversity, richness, abundance and evenness shall be determined for the benthic macrofauna, and data should be subjected to appropriate multi-variate analyses in relations to chemical and physical measurements.</p> <p>b) sediment quality to determine sediment health, and potential accumulation of contaminants within the sediments.</p> <p>Sediments should be analysed for:</p> <ul style="list-style-type: none"> - total copper - total cadmium - total chromium - total zinc - fluoride - total phosphorus - sulphur - sediment composition - nickel <p>Metal□□</p> <p>Detection Limit□□</p> <p>□□</p> <p>Total Copper□□</p> <p>2 mg/kg (screen)□□</p>

□□

Total Cadmium□□

0.1 mg/kg (screen)□□

□□

Total Chromium□□

2 mg/kg (screen)□□

□□

Total Zinc□□

4 mg/kg (screen)□□

□□

Total Mercury□□

0.1 mg/kg (screen)□□

□□

Total Nickel□□

2 mg/kg (screen)□□

□□

c) receiving water quality to determine whether contaminants of concern are present and in what concentrations.

Receiving water should be analysed for:

- Temperature
- Salinity
- Dissolved oxygen
- pH
- Suspended Solids
- Chlorophyll a
- Ammoniacal Nitrogen
- Nitrate Nitrogen
- Nitrite Nitrogen
- Nitrate + Nitrite Nitrogen
- Total Nitrogen
- SRP
- TP

- Sulphur
- Fluoride
- Aluminium
- Cadmium
- Chromium
- Copper
- Zinc
- Nickel

Metal□□

Detection Limit□□

□□

Aluminium□□

0.003 mg/L (trace)□□

□□

Cadmium□□

0.00005 mg/L (trace)□□

□□

Chromium□□

0.0005 mg/l (trace)□□

□□

Copper□□

0.0005 mg/l (trace)□□

□□

Zinc□□

0.001 mg/l (trace)□□

□□

Mercury□□

0.00008 mg/l (trace)□□

□□

Nickel□□

0.0005 mg/l (trace)□□

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
		<p>□□</p> <p>d) chlorophyll a concentrations as an indicator of potential nutrient enrichment.</p> <p>e) presence/absence of fish species.</p> <p>f) periphyton biomass and taxonomy as an indicator of potential nutrient enrichment.</p> <p>g) undertake Whole Effluent Toxicity Testing to determine the effects of the combined discharge on organisms in the receiving environment on three test species at 100: 1 dilution.</p>
	Not applicable	30-Nov-10 Next monitoring due June 2011
	Not applicable	01-Dec-10 Next monitoring due June 2011
7	Technical	The consent holder shall submit a monitoring program, designed to meet the requirements of Condition 6, to the satisfaction of the Council (Manager: Environmental Regulation), prior to the receiving environment monitoring occurring in accordance with Condition 7.
	Not applicable	30-Nov-10 Next monitoring due June 2011
	Not applicable	01-Dec-10 Next monitoring due June 2011
8	Technical	Within three months of the receiving environment monitoring taking place in accordance with Condition 7, the consent holder shall submit a report to the Hawke's Bay Regional Council detailing results and analysis of the monitoring, and a summary of conclusions.
	Not applicable	30-Nov-10 Next monitoring due June 2011
	Not applicable	01-Dec-10 Next monitoring due June 2011
9	Technical	The consent holder shall prepare an annual report for the period of July to June each year, and by the end of July and submit it to the Hawke's Bay Regional Council. The report shall summarise monitoring and compliance to the consent conditions and discuss any non-compliance and recommended necessary actions to achieve compliance.
	Compliance	30-Nov-10 Council received this report 1/11/10
	Not applicable	01-Dec-10 The next annual report is due after June 2011 for this whole season.

Grading Information

Each consent condition has been classified as either a Environmental or Technical condition.

Environmental conditions:

Environmental conditions set standards/performance limits for a resource consent, or, mitigates an environmental impact of exercising a resource consent.

Examples of environmental conditions are:

- Installation of up-gradient cut-off drains/ placement of disposal fields
- volume limits of discharges
- water take rates and maximum volumes
- discharge or receiving water contaminant limits

Technical conditions:

Technical conditions sets out technical requirements that allows a consent holder to demonstrate or measure that they meet the Environmental performance required by a resource consent, or help specify the activity authorised.

Examples of technical conditions are:

- sampling effluent/ recording discharge volumes / collating submitting data
- providing of reports/ plans/ designs specifications
- notifications, accreditation, authorities submissions for approval by ER Manager
- installation and maintenance of a water meter

You need to comply with all conditions regardless of whether it's a Environmental or Technical condition.