

# Conditions to Resource Consent WGN080003 [31505]

## Activity

- 1<sup>1</sup>. The location and nature of the discharge shall be in accordance with the consent application and its associated plans and documents lodged with the Wellington Regional Council on 2 July 2007, additional information received on 26 October 2007, the change of conditions application lodged with Wellington Regional Council on 11 January 2013 and further information received on 7 February 2013.

Note: Any change from the location, design concepts and parameters, implementation and/or operation may require a new resource consent or a change of consent conditions pursuant to section 127 of the Resource Management Act 1991.

Note: Where there may be contradiction or inconsistencies between the application and further information provided by the applicant, the most recent information applies. In addition, where there may be inconsistencies between information provided by the applicant and conditions of the consent, the conditions apply.

- 2<sup>2</sup>. The rate of discharge shall not exceed 260,000 cubic metres per day (m<sup>3</sup>/day).
3. The **discharge point** shall be from the existing submarine pipeline outfall, between approximate map references NZMS 260:R27;2660742.5982398 and NZMS 260: R27;2660710.5982311.

## Operations and Maintenance

- 4<sup>3</sup>. Within six months of the commencement of this permit, the permit holder shall prepare and provide to the Manager, Environmental Regulation, Wellington Regional Council an **Operations and Management Overview** of the Moa Point Wastewater Treatment Plant. This document will reflect the management and operation of the plant, and shall be updated when any changes are made.

The overview document shall include, but not be limited to, the following:

- a) A **brief description** of the treatment and disposal system, including a **site map** indicating the locations of all waste streams entering the treatment system, treatment device(s), points of discharge and monitoring sites;
- b) A table of planned daily, weekly, monthly and annual **maintenance checks**;
- c) A summary of the **monitoring and reporting requirements and a list of the relevant plans** (e.g. OMP) associated with all of the consents required for the operation of the Moa Point Wastewater Treatment Plant;
- d) **Contingency plans** in the event of system malfunctions or breakdowns, including at least –

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<sup>1</sup> Condition changed under section 127 of the Act, granted 13 March 2013

<sup>2</sup> Condition changed under section 127 of the Act, granted 13 March 2013

<sup>3</sup> Condition changed under section 127 of the Act, granted 13 March 2013

- i) A list of hazardous material kept and processed onsite;
- ii) Details of the equipment available to remove spills;
- iii) A description of the spill prevention measures that will be undertaken on site;
- iv) A description of the training staff will have in the use of such measures and equipment;
- v) Details on how the disposal of contaminated materials will be undertaken; and
- vi) The procedures involved in the reporting of any spill incidents to the Wellington Regional Council.

At all times the permit holder shall ensure that the Manager, Environmental Regulation, Wellington Regional Council has a copy of the most recent version of the overview document.

### **Community Liaison Group (CLG)**

5. The permit holder shall continue to engage with the Moa Point Community Liaison Group (CLG) established and maintained under the Wellington City Council designation.

A summary of each meeting that includes, but is not limited to, issues discussed, actions agreed upon and any follow-up on agreed actions from previous meetings shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of each CLG meeting.

### **Treated Wastewater Monitoring**

6. The permit holder shall continuously monitor and record the **flow rate** and **volume** of treated wastewater entering the submarine outfall pipeline, to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council. A summary of the records listing the daily discharge volumes and the average and maximum flow rates shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council at quarterly intervals, in accordance with condition 19 of this permit.
7. The permit holder shall provide a suitable wastewater sampling location for the effluent quality monitoring required by conditions 9a, 9b and 11 of this permit. The sampling station shall be located after the UV disinfection unit but prior to entry into the submarine outfall pipeline.
8. All sampling required by the conditions of this permit shall be to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council and shall be carried out by a suitably trained person.

All analyses undertaken in connection with this consent shall be undertaken by an independent registered laboratory accredited to International Accreditation New Zealand (IANZ) or otherwise as specifically approved by the Wellington Regional Council.

### **Effluent Quality**

9. a) The permit holder shall obtain daily representative 24-hour flow-proportioned composite samples of the treated wastewater discharged from the treatment plant to the outfall. These samples shall be analysed for total suspended solids and 5-day carbonaceous biochemical oxygen demand (cBOD5).

9. b) The permit holder shall between the hours of 9:00 am and 5:00 pm each day, obtain a representative grab sample of the treated wastewater discharged from the treatment plant to the outfall. This sample shall be analysed for faecal coliforms.

10. The wastewater discharged from the Moa Point Wastewater Treatment Plant to the coastal waters shall comply with the following effluent quality criteria:

(a) cBOD5

The geometric mean of 90 consecutive daily sampling results shall not exceed **20 g/m<sup>3</sup>** and no more than 10% of 90 consecutive sample results shall exceed **45 g/m<sup>3</sup>**.

(b) Suspended solids

The geometric mean of 90 consecutive daily sampling results shall not exceed **30g/m<sup>3</sup>** and no more than 10% of 90 consecutive sample results shall exceed **68g/m<sup>3</sup>**.

(c) Faecal Coliforms

The geometric mean of 90 consecutive daily sampling results shall not exceed **200 colony forming units per 100 ml** and no more than 10% of 90 consecutive sample results shall exceed **950 colony forming units per 100 ml**.

Compliance with the effluent quality criteria shall be determined from the results of wastewater monitoring undertaken in accordance with conditions (9)(a) and (9)(b) of this permit, with a running geometric mean and ninetieth percentile calculated following each sampling event using the preceding 90 consecutive sample results.

11. The permit holder shall at least once every three months obtain a sample of the treated wastewater discharged from the treatment plant to the outfall. This sample shall be analysed for and not exceed the following:

Total arsenic	0.26g/m <sup>3</sup>
Total cadmium	0.08g/m <sup>3</sup>
Total chromium	0.48g/m <sup>3</sup>
Total copper	0.14g/m <sup>3</sup>
Total lead	0.48g/m <sup>3</sup>
Total mercury	0.01g/m <sup>3</sup>
Total nickel	0.77g/m <sup>3</sup>
Total zinc	1.65g/m <sup>3</sup>
Phenol	0.80g/m <sup>3</sup>
Cyanide as CN	0.10g/m <sup>3</sup>

This sample shall also be analysed for:

pH  
Ammoniacal Nitrogen  
Oil and Grease

12. The results of monitoring undertaken in accordance with conditions 9a, 9b and 11 of this permit shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council on a quarterly basis, in accordance with condition 19 of this permit.

13. The permit holder shall notify the Manager, Environmental Regulation, Wellington Regional Council immediately

in the event that a running geometric mean and/or ninetieth percentile effluent quality value or other value calculated following each wastewater quality sampling event exceeds the criteria stipulated in conditions 10 and 11 of this permit for more than three consecutive sampling events. Such a notification shall include the likely reason for exceedance, and measures to be undertaken by the permit holder to remedy the situation.

The permit holder shall also immediately notify the Medical Officer of Health of any such event.

### **Mixing Zone**

14. The discharge shall not result in any of the following effects beyond a **100-metre radius** of the discharge point (described in condition 3 of this permit):
- a) The production of any conspicuous oil or grease films, scums or foams or floatable or suspended material;
  - b) Any conspicuous change in colour or visual clarity;
  - c) Any emission of objectionable odour; or
  - d) Any significant adverse effects on aquatic life.
15. In the event of a treatment failure that would result in a deterioration of effluent quality, and that would potentially cause a breach of condition 14 of this permit, the permit holder shall advise the Manager, Environmental Regulation, Wellington Regional Council, as soon as is practicable.

### **Ecological Survey**

16. The permit holder shall, during the 9th and 19th year after the commencement of this permit, undertake a dive survey of the diffuser sites (5m east and west of the outfall) to establish an ongoing video and photographic record of the near field benthic habitat, including encrusting communities associated with the diffuser.

The permit holder shall report the results of the survey to the Manager, Environmental Regulation, Wellington Regional Council, within three months of its conclusion. A copy of these results shall also be provided to the Community Liaison Group, Te Atiawa, Te Runanganui o Taranaki Whanui ki te Upoko o te Ika a Maui, Ngati Toa Rangatira and the Wellington Tenth Trust, if requested.

The dive survey and report shall be undertaken by a suitably qualified marine ecologist.

### **Opening the remaining diffuser ports**

17. The permit holder shall open **32 diffuser ports**, configured so that alternate ports are opened on the most shoreward risers, once the average daily inflow rate, calculated using the previous year's flow rates, into the Moa Point Wastewater Treatment Plant **exceeds 1000 l/s**.

### **Complaints**

18. The permit holder shall keep a record of any complaints that are received. The record shall contain the following details, where practicable:
- a) Name and address of the complainant;

- b) Identification of the nature of the complaint;
- c) Date and time of the complaint and of the alleged event;
- d) Weather conditions at the time of the complaint; and
- e) Any measures taken to address the cause of the complaint.

The permit holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this permit within **24 hours** of being received by the permit holder or the next working day.

### Reporting

19. A **quarterly monitoring report** for each three-month period ending 31 March, 30 June, 30 September and 31 December shall be provided to the Manager, Environmental Regulation, Wellington Regional Council within 30 days of the end of each three month period.

The quarterly report shall include, but not be limited to, the following:

- a) The results of all monitoring undertaken, as required by conditions 9a, 9b and 11 of this permit. These results shall be provided in an electronic format and a hard-copy format;
- b) An assessment of compliance with conditions 10, 11 and 14 of this permit; and
- c) Reasons for any non-compliance and subsequent actions undertaken to remedy any non-compliance.

20. The permit holder shall provide to the Manager, Environmental Regulation, Wellington Regional Council an **Annual Assessment and Analysis Report** for the period 1 July to 30 June by 31 July each year summarising compliance with the conditions of this permit. This report shall include, but not be limited to the following:

- a) A summary of all monitoring undertaken in accordance with the conditions of this permit and a critical analysis of the information in terms of compliance and adverse environmental effects;
- b) A comparison of data with previously collected data in order to identify any emerging trends;
- c) Comments on compliance with the conditions of this permit;
- d) Any reasons for non-compliance or difficulties in achieving compliance with the conditions of this permit;
- e) Any measures that have been undertaken to improve the environmental performance of the wastewater treatment and disposal system;
- f) A copy of any complaints recorded (in accordance with condition 18 of this permit) during the year; and
- g) Any other issues considered to be important.

A copy of the report shall be provided to Community Liaison Group, Te Atiawa, Te Runanganui O Taranaki Whanui ki te Upoko o te Ika a Maui, Ngati Toa Rangatira and the Wellington Tenth Trust, if requested.

## Monitoring and Technology Review Report

21. Within six months of the 9th and 19th anniversaries of the commencement of this permit, the permit holder shall provide to the Manager, Environmental Regulation, Wellington Regional Council a **Monitoring and Technology Review Report**. The assessment required by the report shall be undertaken by a suitably qualified and experienced New Zealand specialist or specialists in wastewater treatment and disposal.

The report shall be to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council and also be supplied to the Medical Officer of Health, Community Liaison Group, Te Atiawa, Te Runanganui O Taranaki Whanui ki te Upoko o te Ika a Maui, Ngati Toa Rangitira and the Wellington Tenth Trust.

The scope of the assessment should address, but not necessarily be limited to, the following:

- a) Ongoing compliance with the requirements of this permit particularly in relation to any reported non-compliance with consent conditions;
- b) An assessment of compliance/consistency with any relevant national, or regional water quality policies, standards or guidelines in effect at the time;
- c) An assessment of the results of the permit holder's monitoring undertaken in accordance with this permit including the adequacy and scope of such monitoring;
- d) A summary of any improvements made to the reticulation, treatment or disposal system since the granting of this permit;
- e) A summary of any residual actual or potential effects of the discharge, irrespective of whether those effects are in accordance with the conditions of this permit;
- f) An outline of technological changes and advances in relation to wastewater management, treatment, disposal and beneficial use technologies, which may be available to address any residual adverse effects; and
- g) An assessment of whether any such options or combination of options represent the Best Practicable Option to minimise the effects of the discharge and whether the permit holder intends to incorporate such changes.

## Review conditions

22. Wellington Regional Council may review any or all conditions of this permit by giving notice of its intention to do so pursuant to section 128 of the Resource Management Act 1991, within six months of the tenth or twentieth anniversaries of the commencement of this permit, or within six months of the receipt of the report required by condition 21 of this permit, for any of the following reasons:
- a) To review the adequacy of, and if necessary amend the monitoring requirements outlined in this permit;
  - b) To deal with any adverse effects on the environment that may arise from the exercise of this permit; and which are appropriate to deal with at a later stage;
  - c) To require the implementation of Best Practicable Options, including new treatment technology, to

avoid, remedy or mitigate any significant adverse effect on the environment arising from the discharge.

The review of conditions shall allow for the deletion or amendment of conditions of this permit; and the addition of such new conditions as are shown to be necessary to avoid, remedy or mitigate any significant adverse effects on the environment.

23. The Wellington Regional Council shall be entitled to recover from the permit holder the costs of any review, calculated in accordance with and limited to the Council's scale of charges in force and applicable at that time pursuant to section 36 of the Resource Management Act 1991.

<Conditions>