



*caring about you & your environment*

## Resource Management Act 1991

### Resource Consent


Consent No. WGN 950162(01)

Category: Discharge to Air

Pursuant to sections 105 and 108, and subject to all the relevant provisions of the Resource Management Act 1991 and any Regulations made thereunder, a Consent in respect of a natural resource is hereby granted to:

Name	The Hutt City Council	
Address	Wastewater Project, Private Bag 31 912, Lower Hutt	
Term of Consent	Granted: 5 December 1996	Expires: 5 December 2031
Purpose for Which Right is Granted	Discharge of contaminants to air from operation of a wastewater treatment facility.	
Location	Hutt Valley Wastewater Treatment Facilities between Barnes Street and Waterman Street, Seaview, Lower Hutt	
Legal Description of Land	Sec 56, 57 and 58 SO 22480; Sec 47 and 48 SO 24045; Sec 3 SO 23252, Sec 1 SO 36823, Lot 1 and 2 DP 77153 all being part of Block XIV Belmont SD, at or about map reference NZMS 260:R27;697.946.	
Volume/Quantity/Rate	Up to 7 m <sup>3</sup> /s of combustion products and up to 53 m <sup>3</sup> /s of air from wastewater treatment facilities.	
Standard Conditions	1-5 as on reverse of this form	
Additional Conditions	6-29 as attached	

For and on behalf of  
WELLINGTON REGIONAL COUNCIL

  
.....  
Manager, Consents Management

## Standard Conditions

1. **This consent is subject to all relevant provisions of the Resource Management Act 1991, its amendments and any regulations made thereunder. It is the obligation of the consent holder to comply with all the statutory requirements relating to the exercise thereof.**
2. **The consent holder may keep all such records as may be reasonably required by the Wellington Regional Council and shall, if so requested, supply this information to the Wellington Regional Council.**
3. **This consent is subject to the Wellington Regional Council or its servants, or its agents, being permitted access at all reasonable times for the purpose of carrying out inspections, measurements and the taking of samples.**
4. **The design and maintenance of any works relating to the exercise of the consent must be to a standard adequate to meet the conditions of the consent.**
5. **An annual charge, set in accordance with section 36(2) of the Resource Management Act 1991, shall be paid to the Wellington Regional Council for carrying out its functions in relation to the administration, monitoring and supervision of resource consents, and for carrying out its functions under section 35 (duty to gather information, monitor and keep records) of the Act.**

## General Information

[not part of the consent]

1. **The granting of this consent does not imply compliance with the requirements of any other statute, bylaw or regulation.**
2. **A consent may be exercised only for the purpose stated in that consent. For example, a consent to take water does not authorise the discharge of water or contaminant into water.**
3. **A water or discharge consent is not an authority to obtain access to a source of water or a point of discharge.**
4. **In granting a consent to take or use water the Wellington Regional Council does not guarantee or represent that the quality or quantity specified or implied will be available or maintained.**
5. **The consent holder must, when required, supply the Wellington Regional Council with information on the exercise of the consent.**
6. **If there is a serious temporary shortage of water the Wellington Regional Council may issue a direction under section 329 that the taking or use of any water be apportioned, restricted or suspended for a period of up to 14 days and such a direction may be renewed from time to time.**
7. **The consent holder may apply, pursuant to section 127, to the Wellington Regional Council for a change or cancellation of consent conditions, except that the term of the consent cannot be extended by such a change.**
8. **A consent shall be exercised only by the consent holder or their duly authorised agent. A coastal, water or discharge consent may, pursuant to sections 135, 136 and 137 and upon written notice to the Wellington Regional Council, be transferred to a new owner of the land in respect of which the consent is granted but on the same terms and conditions and for the same purpose as set out in the consent.**
9. **The consent holder shall make payment of such annual resource management cost recovery fees as may be notified and confirmed by the Wellington Regional Council from time to time in accordance with section 36 of the Resource Management Act 1991.**

# Additional Conditions to Resource Consent WGN 950162(01)

6. On completion of commissioning, there shall be no discharges to air that are noxious, dangerous, offensive or objectionable at or beyond the boundary of the property. These discharges include odour and dust.
7. The consent holder shall adopt the best practicable option to contain and treat all discharges to air so as to comply with condition 6.
8. This consent shall commence on the date that sewage is first received at the plant on a regular basis.
9. The commissioning period for any new air treatment facilities shall not exceed two months from the commencement of this consent.

Note: While condition 6 and 24 shall commence at the end of the commissioning period, the other conditions of this consent shall apply from commencement of this consent, unless otherwise stated. Of particular note is condition 16.

10. The consent holder shall carry out a risk assessment of the wastewater treatment plant to provide evidence that the proposed design of the facility is likely to meet condition 6.

The assessment shall include, but not be limited to:

- (a) Odour modelling.

The criteria used to show that the design is likely to meet condition 6 shall be 2 odour units, 99.5% of the time for one hour average concentrations.

The modelling shall be undertaken using site specific one hourly meteorological data.

The data set shall be a minimum of three years in value. *met data set.*

The dispersion model used shall:

- (i) be able to model discharges in simple and intermediate terrain and model non-buoyant ground level discharge sources,
- (ii) have directional building downwash component for point sources,
- (iii) produce one hourly average ground level concentrations,
- (iv) use one hour meteorological data derived by RAMMET or PCRAMMET or an equivalent processing material.

Odour emission rates used in the modelling shall be based on forced choice olfactometry. Maximum odour emissions rates will be used for modelling.

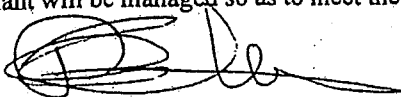
Note: The use of 2 odour units as a modelling criteria is not intended for monitoring or enforcement of condition 6 of this consent. *only a modelling criteria.*

- (b) An assessment of the risk to health from volatile organic compound and hazardous air pollutant emission from the plant.
- (c) Identification of contingency measures to be adopted in the event of emergencies such as plant power failures, plant mechanical failure and air pollution control equipment failure.
- (d) Evidence that the proposed wastewater treatment process has sufficient redundancy built into the plant to mitigate the effects (size and severity) of any potential plant failures.
- (e) Evidence that the design provides effective control over the release of air borne pathogens from the plant.

The assessment shall be provided to the Manager, Consents Management, Wellington Regional Council, at least three months prior to commencement of this consent.

The methods and procedures used for the purpose of this condition shall be agreed to in consultation with the Manager, Consents Management, Wellington Regional Council.

11. The consent holder shall prepare an environmental management plan for the site that demonstrates how the Wastewater Treatment plant will be managed so as to meet the conditions in this consent.



## Additional Conditions to Resource Consent WGN 950162(01) (cont'd)

The plan shall include, but not be limited to:

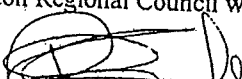
- (a) **operation and maintenance** of the plant's ventilation and air pollution control equipment,
- (b) **training of operators,**
- (c) **incident and complaints recording and reporting,**
- (d) **monitoring requirements of this consent,**
- (e) **contingency plans for emergencies such as plant power failures, plant mechanical failure and air pollution control equipment failure, and**
- (f) **identification of key parameters for air pollution control equipment and their optimum value or range of values to ensure compliance with condition 6.**

If a biofilter is adopted as air pollution control equipment, the key parameters will include:

- backpressure measured and recorded continuously,
- pH, and
- moisture content.

If a scrubber is adopted as air pollution control equipment, the key parameters will include:

- pH measured and recorded continuously, and
- REDOX potential measured recorded continuously.

- (g) **measures to minimise odour from the transport of milliscreenings and sludge from the plant, including filling and cleaning of transportation vehicles.**
  - (h) **Identification of any stand-by equipment and maintenance procedures for that equipment.**
12. **The management plan specified in condition 11 shall be forwarded to the Manager, Consents Management within three months of the date of commencement of this consent. The Manager, Consents Management, Wellington Regional Council, will certify that the management meets condition 11.**
13. **Any change to the management plan (including changes to the key operating parameters) shall be notified to the Manager, Consents Management, Wellington Regional Council, within seven days of the change being adopted at the plant.**
14. **Monitoring of the key parameters identified in condition 11 (f) above shall be carried out at an appropriate frequency for the type of air pollution control equipment adopted, if the monitoring frequency is not stated in condition 11 (f).**
- Continuous monitoring shall be used if it is considered appropriate for the type of control equipment adopted.
- The results of the monitoring shall be forwarded to the Manager, Consents Management, Wellington Regional Council, at three monthly intervals.
15. **The consent holder shall carry out monitoring of air-borne pathogens to demonstrate compliance with condition 6. Monthly sampling at agreed sites for the first three months after commissioning and then at three monthly intervals thereafter for the first two years of operation, with this frequency to be reviewed at the end of this period.**
- The location of the samples sites shall be mutually agreed between the consent holder and the Manager, Consents Management, Wellington Regional Council.
- The testing shall be carried out by a standard method to the satisfaction of the Manager, Consents Management, Wellington Regional Council.
16. **The consent holder shall keep a record of any complaints received. The complaints shall be forwarded to the Manager, Consents Management within twenty-four hours of being received by the consent holder.**
- The consent holder shall endeavour to record the complainants name, time of incident that caused the complaint, wind direction and speed, and plant operating conditions at the time of the complaint.
17. **Any incident that could have caused or has caused adverse effects on the environment at or beyond the boundary of the site shall be notified to the Wellington Regional Council within twenty-four hours. This includes any incidents that result in complaints.**
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## Additional Conditions to Resource Consent WGN 950162(01) (cont'd)

A written report detailing reasons for the incident, measures to mitigate the incident and measures to prevent recurrence shall be forwarded to the Manager, Consents Management, Wellington Regional Council within seven working days.

18. The opacity of all discharges from combustion appliances and any sludge drier (excluding steam) shall not exceed 20%, except for a period of ten minutes for starting up from cold.
19. There shall be no visible discharges, excluding water vapour or clean steam, from any activity on the site, excluding activities specified in condition 18.
20. Any flares used to incinerate excess biogas shall be operated at the optimum temperature. The optimum temperature shall be set by the consent holder to the satisfaction of the Manager, Consent Management, Wellington Regional Council.  

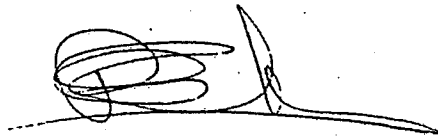
The flare shall automatically re-light or contain an automatic flame detection device that shuts down gas supply in the event of the flare going out.
21. Any sludge drier shall, if its discharges are not directed to a biofilter or a chemical scrubber, be monitored on a six monthly basis, starting within three months of commissioning the sludge drier for the following:
  - (a) Particulate. The method used shall be either ASTM 3685 and ASTM 3154, USEPA Method 5 or ISO 9096. The level of particulate shall not exceed 10mg/Nm<sup>3</sup>.
  - (b) Volatile Organic Compounds, including hazardous air pollutants. The testing shall be carried out by a standard method to the satisfaction of the Manager, Consents Management, Wellington Regional Council.
22. Emissions from any combustion appliances, excluding stand-by equipment shall be tested for the following parameters annually:
  - (a) Oxides of nitrogen
  - (b) Carbon monoxide
  - (c) Sulphur dioxide

The testing shall be carried out by a standard method to the satisfaction of the Manager, Consents Management, Wellington Regional Council.
23. All fans extracting odorous air and air containing pathogens from all enclosures shall maintain sufficient negative pressure to minimise fugitive discharges to air.
24. All ducting carrying odorous air shall, on completion of commissioning, be maintained in a good condition and shall be substantially free of gas or liquid leaks.
25. All biofilters shall be designed to meet the following criteria:
  - (a) the distribution system shall be designed to ensure that gases are effectively dispersed throughout the filter bed,
  - (b) the sides of the filter bed shall be designed and constructed to ensure that untreated process gases cannot bypass the filter media,
  - (c) the beds shall be designed so that there is sufficient redundancy to allow maintenance to be carried out on the bed without a breach of condition 6.
26. The Wellington Regional Council may review any or all conditions hereof by giving notice of its intention to do so pursuant to section 128 of the Resource Management Act 1991, within six months of the first, third and fifth anniversary of the date of commencement of this consent, and every fifth anniversary thereafter for any of the following reasons:
  - (a) To review the adequacy of the monitoring requirements, so as to incorporate into the discharge permit any modification to the monitoring that may be necessary to deal with any adverse effects on the environment arising from the management or operation of the plant.
  - (b) To deal with any adverse effects in the environment of discharges to air which may arise from the exercise of this permit.
  - (c) To alter monitoring requirements on light of the results obtained from any previous monitoring.



## Additional Conditions to Resource Consent WGN 950162(01) (cont'd)

27. The consent holder may apply, pursuant to section 127 of the Resource Management Act 1991, for a change or cancellation of any condition of the discharge permit, except condition 29, within six months of the first, third and fifth anniversary of the date of commissioning the plant, and every fifth anniversary thereafter.
28. This permit shall lapse on 1 October 2003 unless the permit is given effect to before that date, or extension is granted pursuant to an application made within three months of that date to the Wellington Regional Council pursuant to section 125 (1)(b) of the Resource Management Act 1991.
29. This consent shall expire 35 years after its commencement.

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end, positioned in the center of the page.