



**environment  
SOUTHLAND**

*Te Taiaro Tonga*

**AUTH-20158288**

Cnr North Road and Price Street  
(Private Bag 90116  
DX YX20175)  
Invercargill

Telephone (03) 211 5115  
Fax No. (03) 211 5252  
Southland Freephone No. 0800 76 88 45

## **Discharge Permit**

**Pursuant to Section 104B** of the Resource Management Act 1991, a resource consent is hereby granted by the Southland Regional Council to **Prime Range Meats Ltd** of **PO Box 5120, Invercargill 9843** from **3 November 2015**.

**Please read this Consent carefully, and ensure that any staff or contractors carrying out activities under this Consent on your behalf are aware of all the conditions of the Consent.**

### **Details of Permit**

Purpose for which permit is granted:	To discharge contaminants, including odour, to air from a meat works and rendering plant, and from a wastewater treatment system
Location	- site locality - GPS reference - groundwater zone - catchment
	157-159 West Plains Road, Invercargill NZTM2000 1241100 E, 4854150 N Makarewa Waikiwi Stream
Legal description of land at the site:	Sections 52, 53, 63, & 64 Blk XV Invercargill HUN, Pt Section 51 Blk XV Invercargill HUN, Lot 1 DP 554
Expiry date:	3 November 2030

### **Schedule of Conditions**

1. This resource consent authorises the discharge of contaminants to air, namely odour, arising from the operation of a meat works and rendering plant, as described in the application for resource consent dated 21 August 2015, and further information provided 12 October 2015.
2. The discharges shall only be contaminants from processes described in the application dated 21 August 2015, and further information provided 12 October 2015, as follows:

- (a) Material reception and mechanical processing;
- (b) Rendering in 3, at any one time, of the following 4 cookers:
  - (i) 3 Iwell batch cookers (one retained for standby use only) each with a raw material capacity of 2,500 kilograms,
  - (ii) a 3,000 kilograms per hour continuous low temperature cooker;
- (c) Rendering in a small, existing, low-temperature cooker for fish meal processing;
- (d) Blood drying in a diesel-fired rotary drier having an output of up to 350 kg dried blood per hour;
- (e) Sausage casing process;
- (f) Solids separation, solids pressing, milling, transfer and storage;
- (g) Tallow and meat and bone meal processing;
- (h) Two bio-filters:
  - (i) Roofed bio-filter approximately 19 metres by 32 metres in size;
  - (ii) Auxiliary bio-filter approximately 8.2 metres by 16 metres in size.
- (i) Collection and treatment of wastewater in two anaerobic ponds (10,000 cubic metres and 20,000 cubic metres capacity), an extended aeration system and a wastewater settlement tank.

*Rendering Plant*

- 3. (a) Only fresh or suitably preserved raw material shall be processed in the rendering plant. For the purposes for this condition, "fresh" means not older than 24 hours from the time of slaughter and "suitably preserved" means preserved by acid stabilisation within six hours from the time of slaughter.
- (b) Raw material for rendering shall not be held on-site for more than 24 hours prior to rendering.
- 4. Material shall not be left in an uncooked condition or partially cooked condition overnight in the rendering process line.
- 5. The air within the rendering plant building shall be maintained at negative pressure at all times during processing such that all ventilation air is discharged via the bio-filter, as described in the application for resource consent dated 21 August 2015.
- 6. Spare parts for the bio-filter fan, cooker seals/valves and other equipment critical to maintaining effective odour control shall be held on-site at all times, to minimise the time taken to repair equipment malfunctions.
- 7. Processing areas, collection sumps and traps serving the meat processing plant and rendering plant shall be cleaned at least daily to minimise odour emissions.

8. Raw material shall only be received within an enclosed building in order to minimise odorous emissions.

*Bio-filter*

9.
  - (a) The bio-filter shall have an airflow loading rate of no more than 20 cubic metres of air per hour per cubicmetre of media material;
  - (b) The bio-filter bed shall consist of graded bark or similar to achieve optimal odour treatment;
  - (c) The bio-filter bed surface shall be maintained in a moist state using a surface irrigation system consisting of perforated irrigation tubes;
  - (d) The bio-filter media pH shall be maintained as per manufacturer's specifications; and
  - (e) The maximum temperature of inlet air to the bio-filter shall not exceed 45 degrees Celsius.

*Wastewater Treatment*

10. A scum mat shall be maintained over the surface of both anaerobic treatment ponds. This mat shall cover the whole of each pond surface and shall be of a thickness and integrity that will cause it to act as an effective filter for odorous emissions.
11. Only effluent generated on-site shall be treated in the wastewater treatment system.

*General Odour and Dust*

12. There shall be no odour or particulate matter beyond the boundary of the site as a result of the exercise of this consent, that is offensive or objectionable to the extent that it causes an adverse effect, in the opinion of an authorised officer of the Consent Authority.

*Monitoring*

13. The following monitoring shall be undertaken:
  - (a) Continuous monitoring of the inlet airflow temperature to the bio-filter, including continuous temperature visual display and manual recording of the average and maximum temperature once each day;
  - (b) Daily visual monitoring of the moisture level and condition of the bio-filter bed, and recording of observations;
  - (c) Weekly measurement and recording of the moisture content within the bio-filter bed;
  - (d) Measurement and recording of pH within the bio-filter bed at least once every three months;
  - (e) Measurement and recording of the air flow rate to the bio-filter and associated pressure drop at least once every 6 months, and provision of information to confirm compliance with Condition 10;

- (f) Monthly visual inspection and recording of the surface status of the anaerobic ponds;
- (g) Annual monitoring and recording of the sludge depth in the anaerobic ponds.

These monitoring records shall be kept and provided to the Consent Authority before 31 March each year. The monitoring requirements shall be included in the management plan specified in Condition 14.

14. A site management plan shall be maintained and adhered to at all times, and provided to the Consent Authority on request. This management plan shall describe all actions to be taken to minimise odour and particulate matter emissions from the plant, and to ensure compliance with the conditions of this consent. The site management plan shall be reviewed at least annually to determine whether it is still fit for purpose. The results of the review shall be submitted to the Consent Authority within one month of the completion of the review.

The management plan shall include but not be limited to:

- (a) Bio-filter maintenance and monitoring requirements;
  - (b) Operating procedures to minimise odour and particulate matter emissions from the rendering plant;
  - (c) Inspection, maintenance and, where practicable, pro-active replacement of equipment in the rendering plant, such as valves and seals;
  - (d) Maintenance and monitoring requirements for on-site wastewater collection and treatment systems; and
  - (e) The name and contact telephone number of all persons responsible for each action described in the plan.
15. The consent holder shall maintain a record of all incidents and complaints relating to the exercise of this consent.

This record shall include, but not be limited to:

- (a) The location where the discharge was detected by the complainant;
- (b) The date and time when the discharge was detected;
- (c) A description of the wind speed, wind direction, and weather conditions when the discharge was detected by the complainant;
- (d) The nature and intensity of the discharge;
- (e) Operating conditions at the time of the complaint, including any malfunction or breakdown of plant or equipment;
- (f) The duration of the incident;

- (g) The most likely cause of the discharge detected; and
  - (h) Any corrective action undertaken by the consent holder to avoid, remedy or mitigate the incident, and any future recurrence.
16. Within seven days of any complaint, the consent holder shall notify the Consent Authority in writing of the response taken to remedy the cause of the complaint, and provide a copy to the complainant (if known). The consent holder shall provide a copy of the complaints record maintained in accordance with Conditions 15 and 16 to the Consent Authority on request.

*Review*

17. The Consent Authority may, in accordance with Sections 128 and 129 of the Resource Management Act 1991, serve notice on the consent holder of its intention to review the conditions of this consent during the period 1 February to 30 September each year, or within two months of any enforcement action being taken by the Consent Authority in relation to the exercise of this consent, or on receiving monitoring results, for the purposes of:
- (a) Determining whether the conditions of this permit are adequate to deal with any adverse effect on the environment, including cumulative effects, which may arise from the exercise of the permit, and which it is appropriate to deal with at a later stage, or which become evident after the date of commencement of the permit;
  - (b) Ensuring the conditions of this consent are consistent with any National Environmental Standards Regulations, relevant plans and/or the Environment Southland Regional Policy Statement;
  - (c) Amending the monitoring programme to be undertaken;
  - (d) Adding or adjusting compliance limits; or
  - (e) Requiring the consent holder to adopt the best practicable option to remove or reduce any adverse effect on the environment arising as a result of the exercise of this permit.

for the **Southland Regional Council**



Hilary Lennox  
**Consents Manager**

**Note:**

*The consent holder shall pay an annual administration and monitoring charge to the Consents Authority, collected in accordance with Section 36 of the Resource Management Act, payable in advance on the first day of July each year. The administration charge includes the cost of at least one inspection each year by the Consent Authority.*