

Discharge Permit

Pursuant to Section 104B of the Resource Management Act 1991, a resource consent is hereby granted by the Southland Regional Council to **South Pacific Meats Limited of PO Box 1774, Invercargill 9840** from **Date Consent Granted.**

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 meatworks effluent sludges to land by slurry tanker

Location	- site locality	225 Hamilton Road and 209 & 360 Oreti Plains Road, Oreti Plains
	- NZTM Co-ordinates	1,229,900E 4,881,300N
	- physiographic zones	Central Plains and Oxidising
	- groundwater zone	Central Plains
	- catchment	Oreti River
	- FMU	Oreti

Legal description of land at the site: Section 126 Oreti HUN, Part Section 129 Oreti HUN, Part Section 128 Oreti HUN, Part Lot 1 DP 10524, Lot 8 DP 208, Lot 25A DP 203, Lot 1 DP 13563, Lot 9 DP 208, Part Lot 5 DP 209, Lot 2 DP 479232, Part Lot 1 DP 2143

Expiry date:

Schedule of Conditions

General conditions

1. This consent authorises the discharge of meatworks effluent sludges to land by slurry tanker as described in the application (APP-20181437) for resource consent dated 7 June 2018 (Environment Southland Objective system document references A403238, A403239 and A404422), on the properties described above, within the areas shown in Appendix 1 of these conditions.

2. The meatworks effluent sludges (MES) shall be sourced solely from the South Pacific Meats plant at Awarua and be from the base of the anaerobic wastewater treatment pond.
3. The consent holder shall sample the MES once each calendar month that MES occurs, and shall analyse each sample for:
 - i. pH
 - ii. Sodium Adsorption Ratio (SAR)
 - iii. Oil and Grease
 - iv. Total Solids
 - v. Total Nitrogen
 - vi. Ammoniacal Nitrogen
 - vii. Nitrate Nitrogen
 - viii. Total Sulphur
 - ix. Total Phosphorous
 - x. Calcium
 - xi. Magnesium
 - xii. Sodium
 - xiii. Potassium

4. The discharge of MES shall be by low pressure sludge spreader and shall not exceed a depth of application of 5 millimetres for each individual application and no more than 10 mm annually over the same area of land.
5. Nitrogen loading in any 12 month period from 1 July to 30 June onto any land area as a result of the exercise of this consent shall not exceed 150 kilograms of nitrogen per hectare per year either solely from MES or in conjunction with farm dairy effluent, wintering barn effluent or whey.

Advice Note: Application of other materials are subject to other consents and overall compliance will require consideration of records associated with those consents. Application of fertilisers, including to the same areas as MES, are to be in accordance with other policies and rules set out in Regional Plan documents.

6. In accordance with Condition 5, prior to applying MES, the consent holder shall determine the cumulative loading of all forms of nitrogen over the nominated period. No application of MES shall occur if the loading limit identified in Condition 5 is to be exceeded.
7. There shall be no surface runoff/overland flow, ponding, direct discharge to water or contamination of water resulting from the application of the MES to land. Specifically:
 - (a) each day's land application of MES shall only be undertaken if and when Environment Southland's Heddon Bush soil moisture recording site records that soil moisture is sufficiently low to allow effluent application. Application can occur when soil moisture states "safe for irrigation" or "low rate irrigation" or "pulse irrigation";
 - (b) in conjunction with clean water irrigation, the application of MES shall not exceed field capacity; and
 - (c) no application of MES is to occur if >20 mm rainfall is forecast within a 24 hour period of proposed application
8. Prior to application of MES, the paddock(s) to be used shall be visually inspected and if there is evidence of soil cracks greater than 10 mm wide then no application should be applied.
9. Transfer of MES from road tankers to the low pressure spreader shall not occur on a public road, must be more than 200 m from a residential dwelling or Place of Assembly and must be at one of the Transfer Sites identified on the attached plan marked as Appendix 1.

10. Where there is inconsistency between the plan attached as Appendix 1 and the conditions of this consent, the conditions of this consent shall prevail.
11. No discharge of MES to land or transfer from road tanker to sludge spreader shall occur within:
 - (a) 20 metres of any surface watercourse;
 - (b) 100 metres of any water abstraction point;
 - (c) 200 metres of any Place of Assembly¹ or dwelling not on the subject property; and
 - (d) 20 metres from any property boundaries.
12. The application of MES shall not occur:
 - (a) to land between 1 April and 30 September each year;
 - (b) between the hours of 17:00 to 8:00 the following day; or
 - (c) on weekends or statutory holidays.
13. The consent holder shall record the following information:
 - (a) the application site as recorded by GPS and marked on a map;
 - (b) the depth of application;
 - (c) the volume of MES applied and the number of hectares discharged to per day;
 - (d) where relevant, the cumulative loading of MES with other material;
 - (e) soil moisture levels as recorded at the Heddon Bush site;
 - (f) wind direction and strength;
 - (g) rainfall in last 24 hours and a prediction of rain in the coming 24 hour period;
 - (h) any environmental issues, such as visible soil cracks in the discharge area, and what action was taken in response;
 - (i) environmental complaints, such as odour; and
 - (j) uncontrolled spills and mitigation measures taken.
14. Condition 13 (h), (i) and (j) are to be reported to the Compliance Manager within 24 hours upon the complaint and/or spill occurring.
15. Information collected in accordance with Condition 13 shall be provided by the Permit Holder to the Consent Authority for the period of 1 July to 30 June by 15 August each year.
16. The Consent Holder shall provide a summary of the analysis results for the parameters listed in Condition 3 for the past 1 July to 30 June period to the Consent Authority by 15 August each year. The summary shall identify the mean, median and maximum values for each parameter during the reporting period, and shall include:
 - (a) calculation of the average nitrogen loading rate of the sludge application over the area where the sludge was discharged
 - (b) identification of any parameters that may give rise to adverse impacts on soil chemistry, soil permeability, pasture growth or the health of grazing stock
 - (c) identification and comment on any trends in relation to any parameter.
11. The consent holder shall:
 - a. Review the application method and technology in 2024 and every fifth calendar year thereafter; and
 - b. Prepare a report that describes:
 - i. The current technology used for applying MES to land; and
 - ii. An assessment of available technologies for applying MES to land and the benefit, if any, of changing the application method. If improved methods or

¹ "Place of assembly" is defined as:

Any building or land used for public or private assembly or meeting of people and includes libraries, churches, halls, marae, clubrooms, community centres, conference centres, recreational facilities, chartered clubs, premises with a club license, and other similar establishments.

technology are available but are not being adopted, the assessment should include reasons.

- c. Provide a copy of the report to the Consent Authority by 15 August in the year the review was undertaken.

System management

12. The Consent Holder shall notify the Consent Authority the identity of the Person in Charge of the MES discharge system:
 - a. prior to the first exercise of this consent, and
 - b. no more than five working days following the appointment of any new Person in Charge.
13. In the event of a spill or any other event that may result in a discharge of MES that may have significant adverse effect on water quality, particularly in the region of the abstraction point of a registered drinking-water supply, the Consent Holder shall notify, as soon as reasonably practicable, the following:
 - a. the Consent Authority (ph 03 211 5115 or 03 211 5225 after hours); and
 - b. Invercargill City Council (ph 03 211 1777); and
 - c. Alliance Group Limited, Lorneville Plant (ph 03 215 6400); and
 - d. Aquazeal Limited, (ph 021 329 814 or ph 03 214 4777)

Operational Management Plan

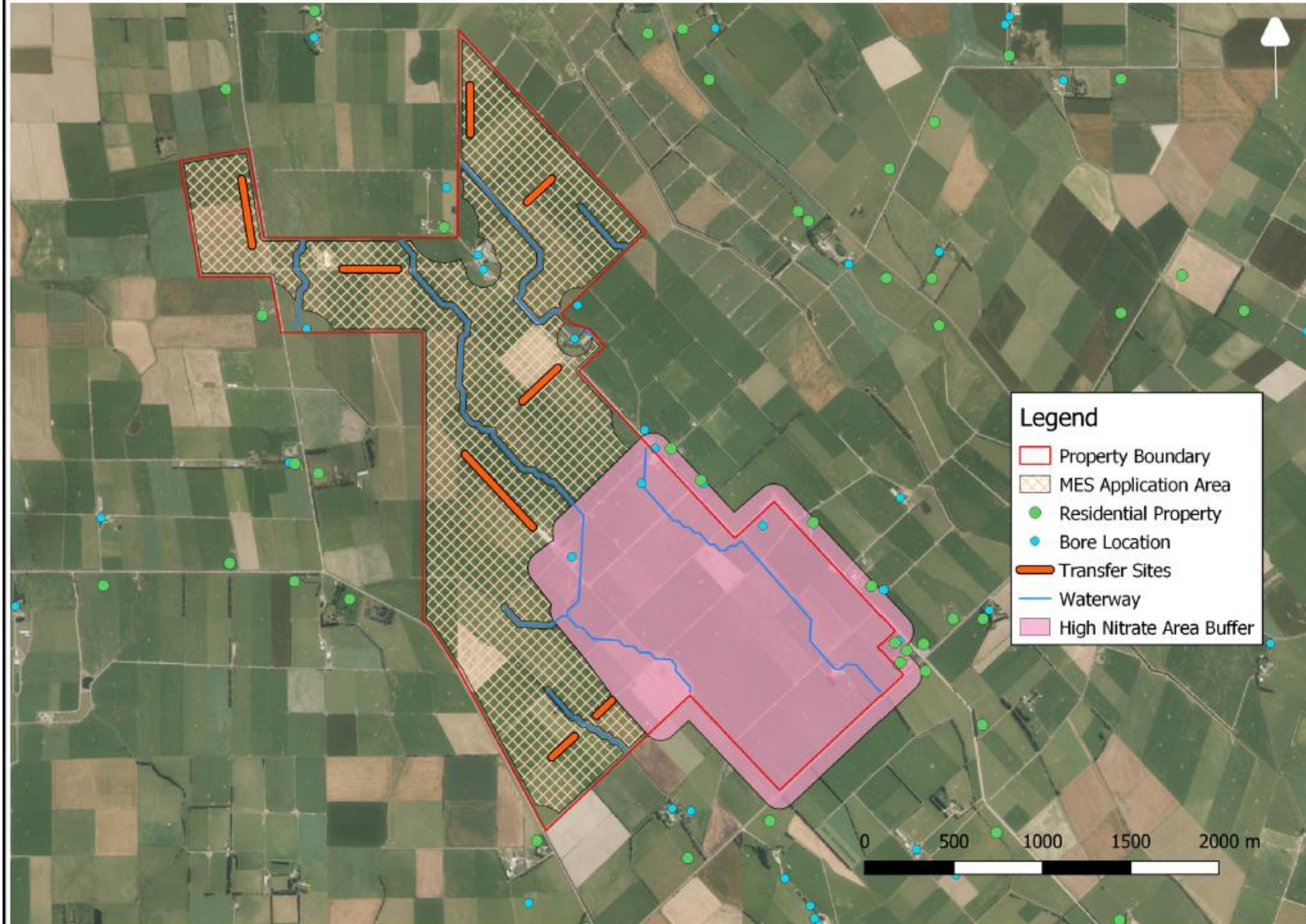
14. Prior to the first exercise of this consent, the Consent Holder shall prepare and submit to the Consent Authority an Operational Management Plan for the MES discharge. The Operational Management Plan shall:
 - a. provide concise and clear direction to the Person in Charge and other staff on the operation of the MES system;
 - b. identify environmental risks of MES discharges specific to the site including, but not limited to, locations of drains, surface waterways, sub-surface drainage, soil cracks during dry conditions, and critical source areas in the discharge areas;
 - c. identify how the above environmental risks are avoided; and
 - d. describe how MES is managed when soils are at or above field capacity and/or during adverse weather conditions.
15. The MES discharge shall be carried out in a manner that complies with the current Operational Management Plan.
16. Annually or more frequently, the Operational Management Plan shall be reviewed and the outcome of the review provided to the Consent Authority within one month.
17. If amended at any time, the most recent version of the Operational Management Plan shall be provided to the Consent Authority within one month of the amendment.
18. The duration of this Consent under s123 shall be 15 years.
19. 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, 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;
- e. Ensuring the Oreti Freshwater Management Unit meets the freshwater objectives and freshwater quality limits set in an operative regional plan pursuant to Policy A1 of the National Policy Statement for Freshwater Management; and
- f. 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.

Notes:

1. *The Consent Holder shall pay an annual administration and monitoring charge to the Consent Authority, collected in accordance with Section 36 of the Resource Management Act, 1991, payable in advance on 1 July each year. This charge may include the costs of inspecting the site once each year (or otherwise as set by the Consent Authority's Annual Plan)*
2. *In accordance with Section 125(1)(a) of the Resource Management Act, this consent will lapse after a period of five years after the date of commencement unless it is given effect to or an application is made to extend the lapse period before the consent lapses.*
3. *In accordance with section 126 of the Resource Management Act, 1991, this consent may be cancelled by the Consent Authority if not exercised for a continuous period of 5 years or more.*
4. *The Consent Holder is reminded that they may apply at any time under Section 127 of the Act to have any condition of this consent changed except that which specifies the expiry date of this consent.*
5. *If you require a replacement permit upon the expiry date of this permit, any new application should be lodged at least 6 months prior to the expiry date of this permit. Applying at least 6 months before the expiry date may enable you to continue to exercise this permit until a decision is made, and any appeals are resolved, on the replacement application.*
6. *Measuring the moisture content of the soil to determine when the soils are at or above field capacity can be done by either actual monitoring on site or by reference to the appropriate Council monitoring site. The Council's soil moisture monitoring sites can be viewed at <http://www.es.govt.nz> and following the "Soil Moisture Map" link.*



Legend

- Property Boundary
- MES Application Area
- Residential Property
- Bore Location
- Transfer Sites
- Waterway
- High Nitrate Area Buffer

NOTES



APPROVED	HL	
DESIGNED	AL	
DRAWN	AL	

CLIENT
South Pacific Meats



PROJECT
10107 - Land Application - Lindsay

DRAWING TITLE
Figure 3: MES Application Area

DRAWING STATUS
Final

DATE 26/03/2019	SCALE NTS
--------------------	--------------

FILE NAME
P:FI-10107-SPM-Lindsay-F3_MES_application_area-190326-RC