

Discharge Permit

Under Section 104B of the Resource Management Act 1991, a resource consent is granted by the Southland Regional Council to **Alliance Group Limited of P O Box 1, Maitua 9356 from 18th August 2021.**

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 and odour to air from meat processing and hide salting operations.
Location	18-30 McQueen Avenue, Maitua and 50 Selbourne Street, Maitua
- site locality	
- map reference	NZTM2000 1,281,349E 4,876,433N
- Airshed	Southland
Legal description of land at the site:	Lots 1 & 2 DP 12431, Lot 1 DP 12500, Sections 1-3 Block VII TN OF Maitua, Part Section 4 Block VII TN OF Maitua, Lot 1 DP 5255, Lots 3-7 DP 5255, Part Sections 6 & 7 Block VII TN OF Maitua, Lot 1 DP 8137, Lots 1 & 2 DP 9633, Section 10 Block VII TN OF Maitua, Part Section 28 Block XIII TN OF Maitua
Expiry date:	18 August 2046
History of Changes and Transfers:	
Condition 10 corrected under s133A on 3 September 2021	

Schedule of Conditions

General conditions

1. This resource consent authorises the discharge of contaminants and odour to air from meat processing and hide salting operations, at the location specified above, as described in the resource consent application¹.
 - (a) The scope of the activity is described in the application as being the discharge of contaminants from the following sources:
 - (i) One 3.8 MW coal-fired boiler (CFB #1)
 - (ii) One 9.4 MW coal-fired boiler (CFB #2), or
 - (iii) One 8 MW Biomass Fired Boiler (BFB)
 - (iv) One 923 kW coal-fired boiler (hide plant boiler, CFB #3)
 - (v) One 160 kW coal-fired boiler (site office boiler)
 - (vi) Stock holding yards
 - (vii) Blood processing
 - (viii) Wastewater treatment and wastewater solids loadout
 - (ix) Rendering raw materials loadout
 - (x) Processing building ventilation air, minor refrigerant losses and water vapour discharges from site processes.
 - (b) The Biomass fired boiler (BFB) shall not be in operation at the same time as the 3.8 MW coal-fired boiler (CFB #1) or the 9.4 MW coal-fired boiler (CFB #2).
2. There shall be no discharge of 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.
 - (a) The site is defined as the properties with the legal descriptions listed in the 'Details of Permit' above.

Boiler Operations

3.
 - (a) The discharges to air from CFB #1 and CFB #2 site shall occur via a stack at a height of at least 30 metres above local ground level.
 - (b) The discharge to air from the hide plant boiler shall occur via a stack at a height of at least 19.5 metres above local ground level.
 - (c) The discharge to air from the BFB shall occur via a stack at a height of at least 29m above ground level and at an efflux velocity of at least 15 metres per second at Maximum Continuous Rating (MCR).
 - (d) The discharges specified in 3(a) (b) and (c) shall be directed vertically into air and shall not be impeded by any obstruction above the stack that decreases the vertical efflux velocity below that which would occur in the absence of such obstruction.
4. The opacity of emissions from CFB #1, CFB #2, BFB and from CFB #3, shall not be darker than Ringelmann Shade 1 as described in New Zealand Standard 5201:1973 except:

¹ Environment Southland electronic filing reference A590135

- (a) in the case of a cold start for a period not exceeding 30 minutes in the first hour of operation;
 - (b) for a period not exceeding a total of five minutes in each succeeding hour of operation.
5.
 - (a) The output from CFB#2:
 - (i) shall not exceed 64% of MCR (6 MW nett) until the discharge meets the fine particulate limit specified in Condition 10(b); and thereafter
 - (ii) shall not exceed 68% of MCR (6.4 MW nett)
 - (b) The output from CFB#1 shall not exceed 3.8 MW;
 - (c) The output from CFB#3 shall not exceed 43% of MCR (0.39 MW nett);
 - (d)
 - (i) CFB #1 and CFB #2 may be operated simultaneously for a period of up to 48 hours duration, at a frequency of no more than twice per calendar year.
 - (ii) The combined output from these boilers when operated simultaneously:
 - (I) shall not exceed 6 MW nett until the discharge from CFB #1 and CFB #2 meets the fine particulate limit specified in Condition 10(b); and thereafter
 - (II) shall not exceed 6.4 MW nett.
6.
 - (a) The coal-fired boiler(s) used on the main site and hide processing site shall be serviced at least once every year by a person competent in the servicing of such boilers. This servicing shall include:
 - Internal cleaning and replacement or repair of damaged equipment and services as necessary;
 - Adjustment of the air to fuel ratio to optimise energy efficiency and to minimise the emission of products of incomplete combustion; and
 - Calibration and adjustment of boiler monitoring equipment consistent with the intent of this consent.
 - (b) Servicing reports shall be prepared for each servicing event. Confirmation that this servicing has been undertaken, and a copy of each servicing report shall be supplied to the Consent Authority by 30 November each year.
7.
 - (a) The sulphur content of fuel used for the boilers shall not exceed 0.6% by weight (as-received)
 - (b) Notwithstanding Condition 7(a), by 31 July 2022 the sulphur content of fuel used for the boilers shall not exceed 0.5% by weight (as-received) unless, for a specified coal source:
 - (i) The Consent Holder has provided the Consent Authority with a report prepared by a suitably qualified and experienced professional which demonstrates when burning that coal with a sulphur content of up to 0.6% by weight (as received), the sulphur dioxide emission rates from CFB #1, CFB #2 and CFB #3 will not exceed the following:
 - 23.51 kg/hr from CFB #1 or CFB #2;
 - 1.89 kg/hr from CFB #3; and

- (ii) The report has been peer reviewed by an independent and suitably qualified and experienced professional that confirms that the sulphur dioxide emission limits in clause (i) can be met while burning the fuel blend assessed in the report; and
 - (iii) The Consent Authority has certified that the requirements of clauses (i) and (ii) of this Condition have been satisfied.
 - (c) The sulphur content shall be determined as follows:
 - (i) A grab sample of the supplied fuel for the boilers shall be collected at least once per month and sent to an IANZ accredited laboratory for analysis for combustible sulphur as percent by weight of coal both on an as-received and dry basis.
 - (ii) If the fuel source changes then a representative analysis of the sulphur content shall be carried out to confirm compliance with the 0.5% or 0.6% by weight limit (as received), as applicable, before the new fuel source is accepted.
 - (iii) The preparation of a monthly monitoring report which shall summarise grab sample test results including a comparison with the limit specified in this condition. A copy of this report shall be submitted to the Consent Authority each month upon completion.
- 8.
 - (a) The burning of coal:
 - (i) in the main coal-fired boiler (CFB #2) and CFB #1 shall cease by 31 July 2026.
 - (ii) in the Hide Plant boiler (CFB #3) shall cease by 31 July 2036
 - (b) For the purposes of this resource consent, references to coal include lignite.
 - (c) The consent holder shall provide written confirmation to the consent authority (email: escompliance@es.govt.nz) of each change under Condition 8(a) within 20 working days of the event.
- 9.
 - (a) The biomass boiler (BFB) shall only burn:
 - (i) Untreated wood chips; and
 - (ii) Dissolved Air Flotation (DAF) solids from the wastewater treatment plant.
 - (b) The DAF (Dissolved Air Flotation) solids shall not exceed 25% by weight of the DAF/woodchip blend fuel for the Biomass boiler.

Note: Condition 9 (a) and (b) only apply if a biomass fuelled boiler is installed.
- 10.
 - (a) The fine particulate matter (PM₁₀) mass emission rate from the boiler stacks shall not exceed:
 - (i) nine (9) kilograms per hour from the main boiler emission stack serving CFB1 and CFB2 until 31 July 2024
 - (ii) 0.83 kilograms per hour from the BFB; and
 - (iii) 0.76 kilograms per hour from CFB3 at the Hide Plant.
 - (b) From 31 July 2024 the concentration of fine particulate matter (PM₁₀) discharged from the main boiler stack serving CFB#2, CFB #1 and/or the BFB shall not exceed 50 mg/m³, adjusted to zero degrees Celsius, 101.3 kilopascals, and 12 percent carbon dioxide on a dry gas basis.

- (c) The Consent Holder shall notify, in writing, the Consent Authority (email: escompliance@es.govt.nz) and the Ministry of Education² (email: resource.management@education.govt.nz) of the option to be implemented to achieve compliance with Condition 10(b) by 31 July 2023.

Monitoring

11. (a) The concentrations of fine particulate (PM₁₀) particulate matter and total suspended particulate matter:
- (i) shall be measured at least once each year in the main boiler stack until the date of commission of the BFB;
 - (ii) shall be measured at least once per year in the BFB stack from the date of commission of the BFB; and
 - (iii) shall be measured at least once every three years in the Hide Plant boiler (CFB#3) stack.
- (b) Measurement of the discharge from the boiler(s) shall occur when the boiler(s) discharging into the stack are operating at a rate of at least 50 percent of the maximum continuous rating.
- (c) Testing, and analysis of samples as appropriate, shall be carried out by an organisation and by a laboratory accredited by International Accreditation New Zealand (IANZ) for the tests and analyses involved.
- (d) The method of sampling and analysis for fine particulate matter shall comply with US Environmental Protection Agency (USEPA) Method 201 or equivalent method as agreed upon in writing with the Consent Authority.
- (e) Results shall be adjusted to zero degrees Celsius, 101.3 kilopascals, and 12 percent carbon dioxide on a dry gas basis, and as a mass emission expressed as kilograms per hour. The US Environmental Protection Agency (USEPA) Method 201 or equivalent method as agreed upon in writing with the Consent Authority shall also be used to estimate the concentration of total suspended particulate matter
- (f) Volumetric flow of combustion gas, and gas temperature, during each particulate emission test shall be determined and recorded and results presented as a part of the particulate emission test report.
- (g) The oxygen or carbon dioxide concentration in combustion gases shall be continuously monitored and recorded during each particulate emission test and results shall be presented as a part of the particulate emission test report.
- (h) The following operating parameters of the boiler(s) during each particulate emission test shall be obtained and included in the testing report: furnace temperature, furnace

² Note: the Ministry of Education was a submitter to the resource consent application that requested notification of the decision on the preferred option.

back-end oxygen concentration (wet gas or dry gas basis identified), rate of firing (steaming rate) and any abnormal operation during the testing period.

- (i) A report summarising the results of the boiler emission testing and comparison with the limit specified in Condition 10 shall be provided to the Consent Authority within fifteen (15) working days of receipt of the emission testing results by the consent holder.

Odour

12. By 31 July 2022, the consent holder shall:

- (a) extract emissions from the DAF (Dissolved Air Flotation) solids decanter centrate drain to a biofilter that is appropriately designed to treat the scale and nature of odorous compounds in the discharge.
- (b) extract the head space air above the 50 cubic metre capacity byproducts storage/loadout bin to a biofilter that is appropriately designed to treat the scale and nature of odorous compounds in the discharge.
- (c) utilise material storage bins that are only sufficient to store 24 hours of wastewater screen solids (compost solids) for load out.
 - (i) The consent holder shall provide confirmation, in writing (email: escompliance@es.govt.nz), to the consent authority that this has been implemented and specify the size of the storage bins.
- (d) ensure that the material in the wastewater screen solids (compost solids) storage bin(s) and the byproducts storage bin(s) is removed from the site at least once each day.
- (e) extract non-condensable gases from the blood dryer to the boiler plant for combustion

13. (a) The consent holder shall maintain a diary of complaints about emissions of odour, smoke or dust from the site. The diary shall record:

- the date and time of each complaint;
- weather conditions (wind direction, wind speed and temperature);
- location of the complaint;
- nature and intensity of the odour and/or dust and/or smoke; and
- the action (if any) taken in response to the complaint.

Note: This condition does not require the consent holder to take action over every complaint but it does require that the decision be recorded.

- (b) The consent holder shall provide a record of the emission complaints diary for the previous 1 July to 30 June period to the Consent Authority by 31 July each year.

14. (a) The consent holder shall conduct an odour diary program between 1 November 2022 and 28 February 2023 at, as far as practicable, the four locations described in the Golder

Associates (NZ) report "Limited Odour Assessment: Alliance Maitara, August 2020", which formed part of the resource consent application³.

- (i) The diary programme shall be designed and supervised by a suitably experienced and qualified professional.
 - (b) The consent holder shall provide a copy of the odour diary program results, and provide a comparison of the odour effects with the results in the Golder Associates (NZ) August 2020 report, by 31 July 2023.
15. The consent holder shall commission a review, by an independent, suitably qualified person, of the effectiveness of odour mitigation within 3 months of receipt of the odour diary report specified in Condition 14. The review is to be summarised in a written report that the consent holder shall supply to the Consent Authority by 15 December 2023.

Other Matters

16. (a) The consent holder shall have and maintain, and operate in accordance with, an "Air Discharge Management & Contingency Plan" (the Plan). The purpose of the Plan shall be to:
- describe the operation of the plant in relation to its potential impacts on the air environment;
 - define the actions to be taken to ensure compliance with all conditions of this consent, or in response to any incident which may impact adversely on the environment;
 - specify mitigations, monitoring and complaint procedures.
 - present contingency plans in the event of mechanical or electrical or other problems that provide for continuing operation of processes and/or timely shutting down of processes as the case may be, to ensure conditions of this consent are not breached.
- (i) The air discharge management plan shall be prepared by a suitably qualified and experienced professional who confirms that the plan addresses all matters necessary to enable compliance with the conditions of consent.
 - (ii) The Plan shall include details of the steps to be taken to correct any non-compliances identified.
- (b) A copy of the Plan shall be provided (email: escompliance@es.govt.nz) to the Consent Authority for certification by 1 October 2021.
- (i) If the Plan is unchanged from one that had already been supplied to the Consent Authority under Resource Consent AUTH-20158002, the Consent Holder may instead notify the Consent Authority by 1 October 2021 that the previous plan is still in effect.
- (c) The consent holder shall review the Plan at least on an annual basis, and it may be amended at any time during the period of this consent as the consent holder considers appropriate to improve management and contingency procedures.
- (i) The consent holder shall keep a written record of the reviews and provide a copy to the Consent Authority upon request.

³ Environment Southland electronic filing reference A590135

- (d) If/when the Plan is amended, the consent holder shall forward a copy of the amended version to the Consent Authority for certification within fifteen (15) working days following amendment.

Review of consent

- 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, 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) 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.

Reissued 3 September 2021 following correction to Condition 10.

for the **Southland Regional Council**



Andrea Garcia
Team Leader Consents

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.*
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.*