



**environment
SOUTHLAND**

**Application No: N015-006
Consent No: 202196**

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

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Discharge Permit

Pursuant to Section 104B of the Resource Management Act 1991, a resource consent is hereby granted by the Southland Regional Council (the "Council") to **New Zealand Aluminum Smelters Ltd** (the "consent holder") of **Private Bag 90110, Invercargill** from **8 December 2003**.

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 at the NZAS landfill contaminants onto or into land in circumstances which may result in those contaminants (or any other contaminants emanating as a result of natural processes from those contaminants) entering water; and to discharge contaminants from any industrial or trade premises onto or into land. The material for disposal is waste from NZAS and the material that is known as Haysom's dross.
Location	Tiwai Peninsula, Bluff
- site locality	E47:553-915
- map reference	Land
- receiving environment	
Legal description of land at the site:	Lot 1 DP 13988 Blk XIII Campbelltown HD CT 11B/268
Expiry date:	8 December 2023

Schedule of Conditions

1. The types of materials to be deposited shall generally be as described in the application and the operation of the landfill shall be in accordance with the Management Plan for the landfill, as amended from time to time.
2. The materials shall be deposited within the landfill boundaries as defined on the attached plan.

3. The consent holder shall estimate the amount and type of materials that have been deposited at the landfill at two yearly intervals, with the first two yearly interval ending on 31 December 2005.
4. Stormwater within the landfill site shall be managed so as to minimise the production of leachate. In particular, the consent holder shall:
 - (i) divert clean stormwater away from the landfill site;
 - (ii) within the landfill site, divert stormwater away from the tipping face;
 - (iii) minimise the amount of uncovered areas and oversow areas that will not be worked for over six months; and
 - (iv) contour the cover material to prevent ponding.
5. The consent holder shall monitor groundwater as follows:
 - (i) in three bores north (upstream) of the landfill site;
 - (ii) in two bores west (downstream) of the landfill site;
 - (iii) in three bores south and south-east (downstream) of the landfill site;
 - (iv) in one bore south-east (downstream) of the landfill site, where the monitoring commences six months prior to any material being deposited in the north-eastern carbon fines area;
 - (v) by taking a representative sample from all the bores in (i), (ii) and (iii) at six monthly intervals and analysing for:
 - pH
 - conductivity
 - alkalinity
 - fluoride
 - sulphate
 - total nitrogen
 - ammonia – N
 - carbonaceous BOD₅
 - total iron
 - (vi) by taking a representative sample from one of the bores in (i) and the two bores to the south-east of the landfill in (iii), at six monthly intervals and analysing for:
 - anthracene
 - naphthalene
 - phenanthrene
 - fluoranthene
 - (vii) by taking a representative sample from all the bores in (i), (ii) and (iii) at two yearly intervals and analysing for:
 - total petroleum hydrocarbons (TPH)
 - total Kjeldahl nitrogen
 - nitrate – N
 - nitrite – N
 - potassium
 - weak acid dissociable cyanide
 - boron
 - manganese
 - nickel
 - vanadium
 - temperature

- (viii) The monitoring frequency shall be as specified in conditions 5(v) to (vii) for the first calendar year following the commencement of the consent, with the frequency being assessed annually. The monitoring frequency may be changed to a minimum of once every two years with the approval of the Council's Director of Environmental Management.
6. The parameters in condition 5(v), (vi) and (vii) shall be analysed in accordance with the most recent edition of APHA "Standard Methods for the Examination of Water and Wastewater" or by methods approved by the Council's Director of Environmental Management.
7. The selection of the bore sites to be monitored in accordance with condition 5 of this permit is to be approved by the Council's Director of Environmental Management.
8. (a) The results of analyses, carried out in accordance with condition 5 of this permit, shall be supplied to the Council no later than 20 working days from the end of each quarter, with the first quarter ending on 31 March 2004.
- (b) Any monitoring results obtained in accordance with condition 5 of this permit, which indicate a significant change from previous results, shall be supplied to the Council within 10 working days of the consent holder receiving the results.
- (c) The methods of analyses are to be specified with the results.
9. The consent holder shall provide the Southland Regional Council with a report, annually by 31 March each year, which shall include:
- a summary of monitoring results over the previous 12 months and an interpretation of the results;
 - an outline of the proposed operation at the landfill for the next 12 months;
 - at two yearly intervals, the estimates required by condition 3 of this permit.
10. Except where the consent holder's monitoring is conducted by a laboratory accredited to ISO 17025 or equivalent, or the Council's laboratory acts as the consent holder's agent, the Council may once every calendar year, audit the consent holder's monitoring methods and analyses by obtaining split samples of two of the groundwater samples taken in accordance with condition 5 above. The cost of the audit is to be met by the consent holder.
11. The Council may, in accordance with the conditions of this permit, and in accordance with Sections 128 and 129 of the Act, serve notice at three yearly intervals from the commencement of this consent of its intention to review the conditions of this consent for the purpose of dealing with any adverse effects on the environment which may arise from the exercise of this consent which were not anticipated when the consent was granted.
12. The consent holder shall pay an annual administration charge to the Southland Regional Council, collected in accordance with Section 36 of the Resource Management Act, payable in advance on the first day of July each year.

for the **Southland Regional Council**

W J Tuckey
Director of Environmental Management