

8A

Application To Discharge Contaminants to Air From Combustion Processes

This form is to be used for applications seeking to discharge contaminants to air from combustion processes within the Otago Region including the Coastal Marine Area. For the purpose of this application, 'combustion processes' includes incinerators and boilers, but excludes domestic fires and outdoor burning.

(For Office Use Only)

Consent No.: _____

Job No: _____

PLEASE READ BEFORE COMPLETING THE APPLICATION FORM

In order for any consent application to be processed efficiently in the minimum time and at minimum cost, it is critical that as much relevant information as possible is included with the application. **If all the necessary information is not supplied with the application then Otago Regional Council may, under section 88 of the Resource Management Act 1991 (the Act) return your application, request further information or decline your application. This will lead to delays in the processing of your application and may increase processing costs.**

Form 1 and Schedule 8A, when properly completed, may provide an adequate "Assessment of Effects on the Environment" (AEE) where the adverse effects of a proposal are not significant. However, this can only be determined on application. The required detail for an AEE should reflect the scale and significance of the potential adverse effects the activity may have on the environment. If the size of your proposed activity or scale of its potential effects is significant, a report by a professional advisor in support of your application may be required. An AEE is required by the Act so that you and others can understand what happens to the environment when you discharge contaminants to air. When considering applications to discharge contaminants to air, the effects of the discharge on the receiving environment and iwi values must be assessed.

Details of information required in an AEE is included in the Fourth Schedule of the Act appended to Form 1: Resource Consent Application.

Once an initial assessment has been made of your application, we may request further information in accordance with Section 92 of the Resource Management Act 1991.

PART A: Description of the Proposed Activity

A.1 Please provide an accurate site plan showing:

- (a) a description of the type of land use surrounding the site (eg. north, residential – closest 500m; south, industrial, etc);
- (b) property boundaries and neighbouring properties;
- (c) nearby buildings
- (d) road access
- (e) existing combustion facilities or those to be constructed;
- (f) specific location of discharge point(s); and
- (g) scale and north arrow.

A.2 Please provide a GPS location in NZTM 2000 (New Zealand Transverse Mercator) for each combustion facility

- a. Name: _____ NZTM 2000: E _____ N _____
- b. Name: _____ NZTM 2000: E _____ N _____
- c. Name: _____ NZTM 2000: E _____ N _____
- d. Name: _____ NZTM 2000: E _____ N _____
- e. Name: _____ NZTM 2000: E _____ N _____

A.3 (a) How many combustion facilities (e.g. boilers / incinerators etc) are present on the site?

(b) How many combustion facilities does this application seek to consent?

A.4 What is the make, model and heat generation capacity (e.g. one megawatt) of each existing or proposed combustion facility?

Make _____ Model _____ Capacity _____

Make _____ Model _____ Capacity _____

Make _____ Model _____ Capacity _____

Make _____ Model _____ Capacity _____

Make _____ Model _____ Capacity _____

Please supply the manufacturer's specifications for each combustion facility

A.5 When was each combustion facility installed, or if the application is for a new combustion facility(s), when do you expect it to be commissioned?

A.6 Existing combustion facility(s) (if you do not have an existing facility(s) please go to question A.6)

(a) Please describe the physical condition of the combustion facility(s), including chimney/stack.

(b) Please state the date of, and attach details from the last service on the combustion facility(s), including chimney/stack.

A.7 (a) What are the dimensions of the chimney/stack?

Height _____metres

Diameter _____metres; or

Length _____metres and width _____metres

Height _____metres

Diameter _____metres; or

Length _____metres and width _____metres

(b) What is the height of the chimney from ground level? _____Metres

(c) What is the height of the chimney above the adjoining building roof level? _____Metres

(d) Please describe the insulation of the chimney/stack

(e) Please describe the cap on top of the chimney/stack? (e.g. cone, rain cap)

(f) What is the maximum height of adjoining and adjacent buildings to the discharge point?

(g) Please attach photographs of the combustion facility(s) and chimney/stack.

A.8 What type of fuel is used?

Coal

What type of coal? (e.g. Ohai, Kai Point) _____

Please include with this application a chemical description of the coal used including the expected sulphur content

Wood including pellets

LPG or Natural Gas

Diesel

Other (please specify)

A.9 How much of the fuel described above is used:

- (a) Per day _____
- (b) Per week _____
- (c) Per month _____
- (d) Per year _____

A.10 What are the hours of operation of the combustion facility(s)?

- (a) Per day _____ which times? _____
- (b) Per week _____ which days? _____
- (c) Per month _____ which months? _____

A.11 Please supply a detailed flow chart and description of the process that results in either a discharge to air, or could potentially result in a discharge to air.

A.12 If known, what contaminants are discharged and in what concentrations (mg/m³)?

- PM₁₀ _____
- SO₂ _____
- NO_x _____
- CO _____
- Other _____

A.13 Describe any existing or proposed air discharge pollution control measures (e.g. bag house, filters).

A.14 How is the equipment controlling the air discharge operated and maintained to prevent equipment failure, and what measures are implemented to ensure that the effects of any malfunction are remedied? Please provide a maintenance plan for the combustion facility(s).

A.15 What is the estimated or known maximum velocity of the flue gas?

_____ Metres per second

A.16 What monitoring, if any, do you carry out to ensure that the discharge does not have an adverse effect? (please supply results of any monitoring undertaken)

A.17 Has any meteorological data relevant to the site been obtained?

No

Yes (If yes, please give details and, if possible, attach a copy of the information obtained to this application)

A.18 Section 105 of the Resource Management Act 1991 requires consideration of alternatives to the discharge and the reasons for proceeding with your proposed choice.

(a) What alternative methods of disposal or discharge to air from your combustion facility(s) have you considered?

(b) Justify why you have made the choice to proceed with the proposed activity described in this application.

PART B: Assessment of Environmental Effects

B.1 In the vicinity of the discharge are there any:

Yes

No

- | | | |
|--|--------------------------|--------------------------|
| (a) Residential developments? | <input type="checkbox"/> | <input type="checkbox"/> |
| (b) Production land (e.g., crops, dairy farming)? | <input type="checkbox"/> | <input type="checkbox"/> |
| (c) Recreational Areas (e.g. sports grounds, parks) | <input type="checkbox"/> | <input type="checkbox"/> |
| (d) Sources of other similar discharges to air? | <input type="checkbox"/> | <input type="checkbox"/> |
| (e) Areas of particular aesthetic or scientific value? | <input type="checkbox"/> | <input type="checkbox"/> |
| (f) Areas or aspects of significance to Iwi? | <input type="checkbox"/> | <input type="checkbox"/> |
| (g) Commercial activities and/or schools? | <input type="checkbox"/> | <input type="checkbox"/> |

B.2 List and describe all possible effects the discharge from your combustion facility(s) may have on:

(a) The receiving air quality

PART D: Checklist

D.1 In order to provide a complete application, have you remembered to attach:

- (a) The fully complete Form 1 and this Schedule 8A
- (b) A site plan
- (c) Manufacturer's specifications for each combustion facility
- (d) Details of the last service (if applicable)
- (e) Photographs of the combustion facility(s) and chimney
- (f) A chemical description of the coal used (if applicable)
- (g) A flow chart of the process that results in a discharge
- (h) The maintenance plan for the combustion facility(s)
- (i) The results of any monitoring undertaken
- (j) Any meteorological information relevant to the site
- (k) Written approvals obtained
- (l) Any appropriate additional information (e.g. photographs)