

# 8D Schedule Discharge Permit To Discharge Contaminants to Air From Abrasive Blasting

This form is to be used for applications seeking to discharge contaminants to air from abrasive blasting operations within the Otago Region, including the Coastal Marine Area, for the purpose of operating an abrasive blasting booth or mobile abrasive blasting operation.

*(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 the Otago Regional Council may, under Section 88 of the Resource Management Act 1991 (the Act) return your application, request further information in accordance with Section 92 of the Act or decline your application. This could lead to delays in the processing of your application and may increase processing costs.**

Form 1 and Schedule 8D, 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 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.

The National Environmental Standard for Ambient Air Quality (NESAAQ) came into force in 2004. Your application will be processed in accordance with its requirements. For more information on the NESAAQ visit the Ministry for Environment website.

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## **PART A: Blasting within a Booth (Fixed Premises)**

### **A.1 (a) Please provide an accurate site plan showing:**

- i.all buildings /structures located on the blasting booth premises;
- ii.a description of the type of land use surrounding the booth site (eg. north, residential – closest 500m; south, industrial, etc);
- iii.property boundaries and neighbouring properties;
- iv.nearby buildings;
- v.road access;
- vi.specific location of any potential discharge point(s); and
- vii.scale and north arrow.

**(b) Provide GPS location for the activity in NZTM 2000 (New Zealand Transverse Mercator)**  
NZTM 2000: E \_\_\_\_\_ N \_\_\_\_\_

**A.2 Provide details of the type of abrasive blasting booth that you currently use.**

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**A.3 What type of abrasive material do you use for your blasting? Please provide manufacturer's / suppliers specification for this.**

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**A.4 Discuss the potential for dust and contaminants to be discharged from the booth.**

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**A.5 Describe the dust and contaminant mitigation measures proposed / installed in the booth. This could include bag filter or wet scrubber technology.**

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**A.6 Describe and provide results of any monitoring of emissions undertaken or proposed for the blasting booth**

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**A.5 Identify and describe:**

**(a) Transportation**

(i) How the blasting media is transported to the site, around the site and from the site including what types of vehicles are involved.

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(ii) What is the maximum distance that blasting media is transported around the site?

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(iii) What type of matter / substance forms the basis of the site surface for which vehicles travel and move over?

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(iv) What dust / odour / contaminant prevention measures do you currently implement to ensure that dust from the roads and / or transportation is minimised?

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**(b) Storage**

(i) What types of chemicals or blasting media are stored onsite? *Please provide Material Safety Data Sheets for all chemicals*

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(ii) How long can blasting media remain in each storage area?

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(iii) What is your maximum storage capacity for each type of chemical or blasting media?

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(iv) In what form are the materials that are stored (i.e. solid, liquid, gas, and what concentrations)?

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(v) What dust / odour / contaminant emission prevention measures do you have / propose to ensure that dust entrainment in the air is minimised from any powdered product?

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**(c) Dispatch**

(i) In what form (solid, liquid, gas) are final products that are dispatched and how often does dispatch occur for each product?

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(ii) How and where are the final products loaded for dispatch?

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**(d) Other Site Activities (please describe)**

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**A.6 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)**

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**A.7 Has any meteorological data relevant to the site been obtained?**

**No**

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

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**A.8 What are the hours of operation for the abrasive blasting booth?**

(a) Per day \_\_\_\_\_ which times? \_\_\_\_\_

(b) Per week \_\_\_\_\_ which days? \_\_\_\_\_

(c) Per month \_\_\_\_\_ which months? \_\_\_\_\_

**A.9 Do you have an Abrasive blasting Management Plan?**

No

Yes  (please provide a copy with this application)

**A.10 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 abrasive blasting booth have you considered?**

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

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## **PART B: Outdoor or Mobile Abrasive Blasting**

**Complete this section if you intend to undertake any abrasive blasting outside a controlled discharge blasting booth or as a mobile operation.**

**B.1 Provide describe area or areas (regions/districts etc) that you wish to undertake outdoor or mobile abrasive blasting.**

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**B.2** What type of abrasive material do you use for your blasting? *Please provide manufacturer's / suppliers specification for this.*

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**B.3** Describe the material and how it is proposed to be used to screen the item being blasted, to minimise the potential for dust and contaminants to be discharged in an uncontrolled manner.

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**B.4** Identify and describe:

**(a) Transportation**

(i) How the blasting media is transported to the outdoor or mobile site, around the site and from the site including what types of vehicles are involved.

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(ii) What dust / odour / contaminant prevention measures do you currently implement to ensure that dust from transportation is minimised?

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**(b) Storage**

(i) What types of chemicals or blasting media are stored at any outdoor or mobile abrasive blasting site? *Please provide Material Safety Data Sheets for all chemicals*

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(ii) In what form are the materials that are stored (i.e. solid, liquid, gas, and what concentrations)?

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(iii) What dust / odour / contaminant emission prevention measures do you have / propose to ensure that dust entrainment in the air is minimised from any powdered product?

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**B.5** 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)*

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**B.6** What are the common hours of operation for the outdoor or mobile abrasive blasting?

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

**B.7** Do you have an Abrasive Blasting Management Plan?

No

Yes  *(please provide a copy with this application)*

**B.8** 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 abrasive blasting activities have you considered?

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

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**PART C: Assessment of Environmental Effects**

<b>C.1</b>	<b>In the vicinity of the discharge are there any:</b>	<b>Yes</b>	<b>No</b>
(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"/>
(h)	Surface water bodies?	<input type="checkbox"/>	<input type="checkbox"/>

**C.2 List and describe all possible effects the discharge from your abrasive blasting activities may have on:**

(a) **The receiving air quality**

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*(Continue on a separate sheet if necessary)*



**(b) Persons living or working in the area**

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**(c) Local plant and animal life**

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**(d) Any of the features identified in C.1 that have not already been discussed**

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## **PART D: Consultation**

**D.1** Please comment on any consultation undertaken with parties who may be interested in or potentially affected by your proposal to discharge contaminants to air (e.g., neighbours, Aukaha, Te Ao Marama).

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**D.2** Please provide any written approvals to the activity using Council's standard Form 1 - Resource Consent Application

## **PART E: Checklist**

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

- (a) The fully complete Form 1 and this Schedule 8D
- (b) A site plan
- (c) A flow chart of each process / activity onsite
- (d) The results of any monitoring undertaken
- (e) Any meteorological information relevant to the site
- (f) Site Management Plan
- (g) Written approvals obtained
- (h) Any appropriate additional information (e.g. photographs)