



## 6d Land use consent application – to construct an erosion protection structure in the bed of a watercourse or lake

*Please answer all questions fully.* The questions provide a guide in order to satisfy the minimum information requirements that must be included with your application as prescribed in Schedule 4 of the Resource Management Act 1991 (RMA). Depending on the scale of your proposed activity, more detailed information and an Assessment of Environmental Effects (AEE) will be required to support the resource consent application.

Officers from the Greater Wellington Regional Council's (GWRC) Environmental Regulation department are available to assist with filling out this form or to clarify information to include with your application. Up to 1 hour of free pre application advice is available to you.

**This form is required to be filled out in conjunction with Form 1 Resource Consent Application**

This application form is for the construction of erosion protection structures. If you are constructing a bridge, culvert or pipe please fill in application form 6c. If you are undertaking general works in the bed of a watercourse or lake please fill in form 6a.

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### Part A: General information on nature and scale of your activity

#### 1. Type of structure proposed

What type of consent are you applying for (please indicate below by ticking the appropriate box)

- Rock groyne** (any erosion mitigation structure that extends perpendicular to the river and is designed to deflect the direction of flow)
- Rock rip-rap** (any erosion mitigation structure built from rocks extending parallel to river bank)
- Gabion** (any erosion mitigation structure that is a wire mesh basked filled with rocks)
- Other** (any erosion mitigation structure not listed above)

If you have selected 'Other', please provide a description of the type of erosion mitigation structure that is proposed:

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[Continue on a separate page if necessary]

#### 2. What is the purpose of the proposed structure?

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## Part A: General (continued)

### 3. Name the watercourse where the works will occur?

(if the watercourse is an unnamed tributary than what is the name of the stream/river it flows into?)

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### 4. Is the watercourse where the works will occur located within the coastal marine area?

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### 5. Describe the current nature of the watercourse at the proposed site for the works?

Nature of channel, i.e. meandering or straight: .....

Water colour/clarity: .....

Average flow (m<sup>3</sup>/sec): .....

Bed material (e.g. rocky, silty): .....

Bank material: .....

Vegetation: .....

Intermittent or continuously flowing .....

Fish and invertebrate life .....

(Note: You may be required to provide an ecological assessment)

Other: .....

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### 6. Construction methodology

Please provide a step by step construction methodology for the works including:

- Details of the works that will be undertaken to prepare the site including construction of any temporary water diversions and access across the stream
- Details of your proposed methodology for the stream works including the machinery to be used, whether material will be stockpiled and where, any dewatering, whether the works are a one off or ongoing and if ongoing how frequently, volume of any vegetation and bed material to be removed, where and how often will machinery be crossing the stream, whether the works will be staged etc
- Details of mitigation measures proposed to minimise the adverse effects of the works including ecological effects, sedimentation, and effects on other water users
- Details of site rehabilitation and ongoing monitoring once the works are complete



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## Part A: General (continued)

### 8. Site photographs

Please attach labelled photographs of the site in its present form which include:

- any existing structures at the site
- any eroded areas of bank in the vicinity of the proposed works
- the view of the watercourse downstream of the site
- the view of the watercourse upstream of the site
- the view of the watercourse and its banks where it will be affected by the works

Please describe the location from which the photographs were taken and indicate whether the proposed site is typical of the watercourse, e.g. 10m downstream, from the proposed site, vegetation type typical of the watercourse. Please also provide a scale, e.g. have a person in the photograph.

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### 9. What material is the proposed erosion protection structure to be constructed of? (i.e. rock size, type, density etc.)?

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### 10. Design plans

Please provide detailed design plans on the exact location of any structure, height of structure, depth of structure below normal bed level, length of structure parallel to channel edge, length of structure perpendicular to channel edge, and any other information that will assist with demonstrating the structural integrity of your proposed activity.

(In most cases, scaled engineering drawings prepared by an appropriately qualified engineer will be required to be submitted with your application.)

### 11. Has consideration been given to scour depth at the proposed site and/or predicted scour depth in a flood event? Yes No

If yes, please explain. Please include the planned bedded depth of the structure.

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**Part A: General (continued)**

**12. If there are any other erosion structures nearby in the same channel, please provide details:**

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**13. Who will be undertaking the work?**

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**14. What are the proposed hours of operation/construction?**

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**15. What is the proposed commencement date of the work?**

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**16. What is the duration of the works?**

If the works are to be staged, please provide a timeframe for each stage.

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**17. What is the duration of the works to be undertaken within the watercourse?**

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**18. Have any alternatives been considered when planning the proposal?**  Yes  No

Please explain:

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## Part B: Assessment of effects on the environment (AEE)

### Water quality

1. **What are the actual and potential effects of your proposed activity in terms of water quality and loss of habitat and how do you propose to avoid or minimise these effects?**

In consideration of this question, please provide detailed comment on each of the points listed below:

**Sediment runoff:**

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**Building debris:**

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**Storage and use of machinery fuels:**

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**Concrete:**

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**Other objects or chemicals entering the watercourse:**

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[Continue on a separate page if necessary]

Note: For guidance on erosion and sediment control measures please refer to the Erosion and Sediment Control for Small sites our web site <http://www.gw.govt.nz/council-publications/pdfs/Small%20sites%20guidelines1.pdf> or the booklet available from GWRC. To get a booklet sent out to you please call the Environment Helpdesk on 04 830 4255.

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## Part B: Assessment of effects on the environment (AEE) (continued)

### Machinery

2. Describe the extent to which machinery is required to undertake your activity and whether machinery is required to enter the watercourse. How do you propose to minimise the effects of machinery in or near the watercourse? How long will any machinery remain in or near the watercourse?

Note: If the works are significant in terms of the machinery required then a management plan for the use of machinery during the works may be required as part of the application.

In consideration of this question, please provide detailed comment on each of the points listed below:

**The use of machinery on the banks of a watercourse:**

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**The use of machinery in the bed of a watercourse:**

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**Storage and use of machinery fuels and/or chemicals:**

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[Continue on a separate page if necessary]

3. Fish passage and spawning/migration

**What are the actual and potential effects of your proposed activity in terms of fish passage and how do you propose to avoid or minimise these effects?**

In consideration of this question, please provide detailed comment on each of the points listed below:

**Placement of structures in the watercourse:**

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**Alterations to water flow:**

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## Part B: Assessment of effects on the environment (AEE) (continued)

**Physical barriers to fish passage:**

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**Timing of works that may affect fish spawning/migration:**

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### 4. Erosion

**What are the actual and potential effects of your proposed activity in terms of erosion and how do you propose to avoid or minimise these effects?**

In consideration of this question, please provide detailed comment on each of the points listed below:

**Placement of structures in the bed or banks of the watercourse including any effects on downstream erosion:**

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**Change in water flow velocities and water flow paths:**

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**Removal of vegetation associated with the works:**

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## Part B: Assessment of effects on the environment (AEE) (continued)

### 5. Neighbours and other people

**What are the actual and potential effects of your proposed activity in terms of effects on neighbours and/or other people and how do you propose to avoid or minimise these effects?**

In consideration of this question, please provide detailed comment on each of the points listed below:

**Neighbours:**

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**Department of Conservation/Fish & Game**

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**Iwi/Heritage New Zealand:**

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**Greater Wellington Regional Council Flood Protection**

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**Recreational users of the water source**

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**Downstream water users (e.g. those that take water from the stream)**

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**Utility providers with infrastructure in the immediate vicinity**

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**Other people who may be affected by the work**

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[Continue on a separate page if necessary]

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## Part B: Assessment of effects on the environment (AEE) (continued)

### 6. Other effects

Are there any other actual or potential effects of your proposed activity and how do you propose to avoid or minimise these effects (for example, visual effects, other physical effects)?

In consideration of this question, please provide detailed comment on each of the points listed below:

**Downstream effects:**

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**Other effects:**

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[Continue on a separate page if necessary]

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## Part C: Assessment against statutory documents

### 1. Part 2 of Resource Management Act 1991 (RMA)

Have you provided an assessment against Part 2 (Purpose and Principles) of the RMA?  
<http://www.legislation.govt.nz/act/public/1991/0069/latest/DLM231904.html>

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### 2. Regional Policy Statement (RPS) & Regional Freshwater Plan (RFP)

Have you provided an assessment of the proposal against the relevant objectives, policies and rules of the Regional Policy Statement (<http://www.gw.govt.nz/rps/>) and Regional Freshwater Plan (<http://www.gw.govt.nz/Regional-Freshwater-Plan/>)?

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**3. Proposed Natural Resources Plan (PNRP)**

Have you provided an assessment of the proposal against the relevant objectives, policies and rules of the Proposed Natural Resources Plan? <http://www.gw.govt.nz/proposed-natural-resources-plan/>

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**4. Other relevant statutory documents**

Have you provided an assessment against all other relevant statutory documents?

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**5. Permitted activities**

Will you be undertaking any permitted activities as part of the proposed works? (e.g. a water take to facilitate dewatering). <http://www.gw.govt.nz/regional-plans-policies-and-strategies/>

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**6. Other activities that are part of the proposal**

Are there any other activities that are part of the proposed erosion protection structure which may require consent? (e.g. the discharge of contaminants (sediment laden water) into a watercourse)

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**7. Value of investment**

If you are applying to replace an existing consent, please provide an assessment of the value of the investment to which the activity relates.

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