



## 4a Discharge permit application – general discharge to water

Please answer all questions fully. Officers from Greater Wellington’s Environmental Regulation department are available to assist with filling out this form or to clarify information to include with your application.

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

This application form should be used for all discharges to water, including discharge to coastal water below mean high water springs and within the outer limits of the territorial sea.

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

**1. What is/are the contaminant(s) of concern in the discharge?**

(A contaminant is any substance which is likely to change the water into which it is discharged in any way. Water can also be a contaminant)

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**2. What is the source of the contaminant and/or process that results in the discharge?** (eg, municipal wastewater, industry, water treatment, rural activity/agricultural production - cows, pigs, poultry, contaminated stormwater, other) Note: If the source is from bulk earthworks please fill out Form 3b.

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**3. If from municipal wastewater what is the current and future size of the population the treatment plant will serve, and what is the proposed operational life of the treatment plant and associated pipework?**

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4 Is the contaminant treated in any way before being discharged? Yes  No

5. Name the treatment system and describe the treatment process (include the design specifications such as the capacity of the system):

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6. If sludge/solid waste is generated as part of the treatment process, please state what happens to this sludge. (Note: an additional consent will be required for the discharge of sludge to land).

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7. Describe the contaminant and expected quality of the discharge after treatment but before it enters its receiving environment:

Please provide the results from any water quality testing of the discharge. If you do not have this information, you will need to test your discharge. Indicate which contaminants have been identified in the discharge by ticking the box(es). Explain how the samples were taken (eg, spot sample or composite sample) and attach the sampling results (laboratory analytical certificates) to this application.

- |                                                                                |                                                                         |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> Temperature °C                                        | <input type="checkbox"/> pH                                             |
| <input type="checkbox"/> Suspended solids g/m <sup>3</sup>                     | <input type="checkbox"/> BOD <sub>5</sub> g/m <sup>3</sup>              |
| <input type="checkbox"/> Faecal coliforms cfu/100 mL                           | <input type="checkbox"/> Heavy metals g/m <sup>3</sup>                  |
| <input type="checkbox"/> Toxic substances (eg, PAHs, phenols) g/m <sup>3</sup> | <input type="checkbox"/> Dissolved and total nutrients g/m <sup>3</sup> |
| <input type="checkbox"/> Ammonia g/m <sup>3</sup> :                            | <input type="checkbox"/> Oil/grease g/m <sup>3</sup>                    |

Date(s) sample taken: \_\_\_\_\_ Name of sampler: \_\_\_\_\_

Location(s) sample taken: \_\_\_\_\_

Date(s) of analysis: \_\_\_\_\_ Analysis conducted by: \_\_\_\_\_

Indicate the sampling area(s) on the locality map (question 20).

Where appropriate describe the following:

*Physical characteristics of the discharge* (such as temperature, suspended solids, turbidity)

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*Inorganic chemical characteristics of the discharge* (such as pH, free ammonia, organic nitrogen, total kjeldahl nitrogen, nitrites, nitrates, inorganic phosphorus, sulphate, metals)

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*Organic chemical characteristics of the discharge* (such as BOD<sub>5</sub>, VOC's)

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*Biological characteristics of the discharge* (such as faecal coliforms, specific micro-organisms, toxicity)

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8. What is the name of the waterbody into which the discharge will be made (eg, name of stream, river, lake, bay, harbour, catchment, etc)?

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9. Describe the present state of the waterbody at the proposed location of the discharge. Parameters to include in your description are flow information, water colour/clarity, width of channel, average depth, land use surrounding the waterbody, bed material (eg, rocky, silty, etc), bank material, streamside vegetation, erosion, fish life, invertebrate life, aquatic plants.

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Greater Wellington's Environmental Monitoring and Investigations department may be able to assist you with flow or water quality data if you have no information. Please note some applications may require a professional ecological assessment.

10. What is the quality of the receiving waterbody before the discharge? Provide sample results and interpretation of these results (eg, against guideline values).

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11. Provide details of the expected quality of the receiving waters (AFTER the point of discharge, at a point after reasonable mixing). Provide sample results for existing discharges or provide anticipated results.

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Indicate which contaminants have been identified in the receiving waters by ticking the box(es). Attach the sampling results (laboratory analytical certificates) to this application

- |                                                                    |                                                            |
|--------------------------------------------------------------------|------------------------------------------------------------|
| <input type="checkbox"/> Temperature °C                            | <input type="checkbox"/> pH                                |
| <input type="checkbox"/> Suspended solids g/m <sup>3</sup>         | <input type="checkbox"/> BOD <sub>5</sub> g/m <sup>3</sup> |
| <input type="checkbox"/> Faecal coliforms cfu/100 mL               | <input type="checkbox"/> Heavy metals                      |
| <input type="checkbox"/> Toxic substances                          | <input type="checkbox"/> Nitrates                          |
| <input type="checkbox"/> Ammonia and dissolved reactive phosphorus | <input type="checkbox"/> Dissolved Oxygen g/m <sup>3</sup> |

Date(s) sample taken: \_\_\_\_\_ Name of sampler: \_\_\_\_\_

Location(s) sample taken: \_\_\_\_\_

Date(s) of analysis: \_\_\_\_\_ Analysis conducted by: \_\_\_\_\_

Please indicate the sampling locations (i.e. upstream, downstream, point of discharge) on the locality map (question 20)

**12. Describe the method of discharge.** Describe what measures will be put in place to prevent erosion or scour at the point of discharge.

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**13. Describe the discharge outlet structure (eg, 300mm pipe, multi-port diffuser, gravel trench etc.)**

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**14. Is the discharge continuous  or intermittent  ?**

**15. What will be the maximum discharging period?**

\_\_\_\_\_ hours per day  
\_\_\_\_\_ days per week  
\_\_\_\_\_ weeks per year

**16. Describe the expected volume and frequency of the discharge?**

Maximum flow rate \_\_\_\_\_ litres per second  
Maximum daily discharge \_\_\_\_\_ cubic metres per day  
Average Dry Weather Flow \_\_\_\_\_  
Peak Wet Weather Flow \_\_\_\_\_  
Max. Volume per annum \_\_\_\_\_

**17. Does the discharge also involve:**

Outlet structure?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Diversion?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Discharge to air (odour)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Discharge to land?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

If you answered yes to any of 17 above, a separate consent application may be required. Give details of these other discharges below unless separate consent applications forms have been completed (in order to assess if further consents are required):

**18. Is there any odour associated with the discharge?**

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**19. Give details of other discharge(s) occurring to the waterbody (eg, wet weather overflows).** Describe the location, activity and source of these discharge(s) and any other details you are able to provide:

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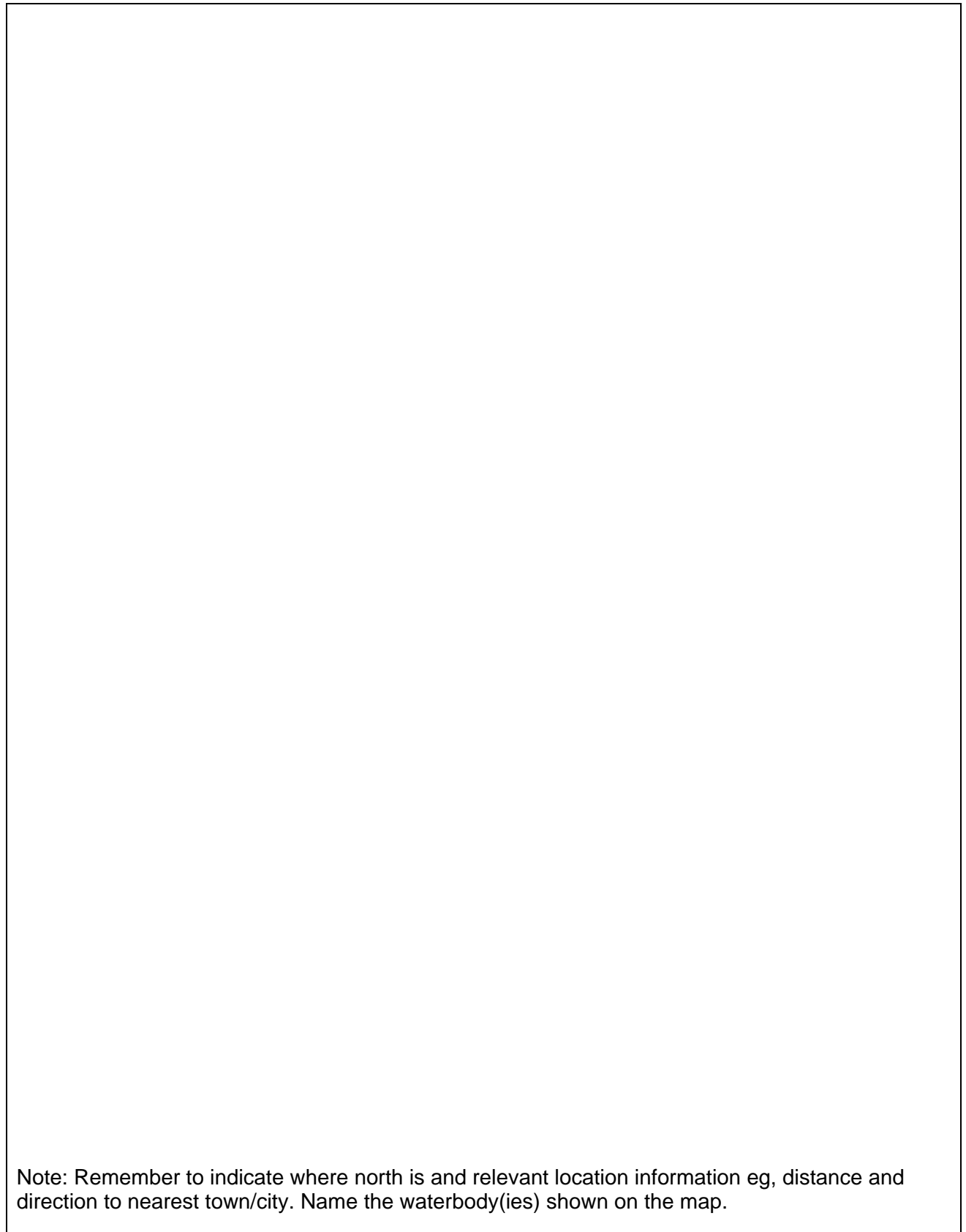
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## 20. Locality map and system design

Show the location of your proposed discharge. The sketch or plan should include, but not be limited to discharge point(s), sampling locations, location of neighbouring properties, roads, waterbodies (including streams, wetlands and drains), and other significant landmarks. Alternatively you may wish to attach a plan/aerial photograph showing the above information.



Note: Remember to indicate where north is and relevant location information eg, distance and direction to nearest town/city. Name the waterbody(ies) shown on the map.

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

If your proposed discharge is likely to have a significant impact on the environment you will need to complete a more detailed environmental assessment in accordance with the Fourth Schedule of the Resource Management Act 1991.

**1. Within a reasonable distance downstream or in the vicinity of the discharge are there any:**

- |                                                                                                              |                              |                             |
|--------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
| (1) Obvious indications of the presence of biota (eg, birds/nests, fish, eels, insect life, aquatic plants)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (2) Areas where food is gathered (eg, watercress, fish, kaimoana, blackberries)?                             | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (3) Water abstractions?                                                                                      | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (4) Wetlands (eg, swamp areas)?                                                                              | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (5) Recreational activities carried out (eg, swimming, fishing, canoeing)?                                   | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (6) Areas of particular aesthetic or scientific value (eg, archaeological sites)?                            | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (7) Areas or aspects of significance to iwi that you are aware of?                                           | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

**2. If you have answered yes to any of the above, please provide further information, including the distance of these activities from your proposed discharge point(s) and a description of what effects the discharge may have on them.**

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**3. What steps do you propose to take to mitigate these effects?**

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[Continue on a separate page if necessary]

**4. What is the management purpose of the receiving waters as described in the Regional Freshwater Plan or Regional Coastal Plan?**

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**5. What do you consider are the likely effects of the discharge upon the receiving waters, particularly in relation to the management purpose in question 4 above?**

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**6. If there any other discharges within the same catchment, what is the combined effect of these discharges (including the proposed discharge) on the receiving environment?**

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**7. What is the length and width of the proposed zone of non-compliance (if any) to allow for reasonable mixing of the discharge in the receiving waters? How were the dimensions of this zone determined and what degree of dilution (eg, 100:1) is provided by the end of the zone?**  
Note: In some waterbodies it may not be reasonable to have a non-compliance zone.

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**8. Describe any noticeable change in the colour/clarity of the receiving waters that may result from the discharge:**

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**9. What environmental effects were considered when choosing the proposed method of disposal and location (eg, water table, dilution rates/mixing potential, proximity to waterbody)?**

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**10. What alternative methods of treatment and disposal/discharge locations were considered?**

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**11. Were these alternatives discounted?**

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## Part C: Monitoring and management of your activity

1. **What monitoring and management do you propose to ensure any potential adverse effects on the environment are avoided, remedied or mitigated?** (eg, discharge monitoring, receiving water monitoring, ecological surveys, toxicity tests). Include details on what is to be monitored, when, how, and why.

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2. **What contingency measures are proposed to deal with any system malfunction or failures so as to prevent unauthorised, uncontrolled, or only partially treated discharge to the environment?**

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3. **Describe how the equipment controlling the discharge to prevent equipment failure will be maintained and operated** (eg, measures to exclude stormwater from the system, desludging, equipment maintenance).

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4. **What will be done to minimise and remediate any effects in the event of equipment failure?**

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