

APPLICATION FOR RESOURCE CONSENT

FORM B: DISCHARGE OF STORMWATER



NOTES

Resource use activities must meet all the conditions of any relevant Permitted Activity Rules in the Waikato Regional Plan or a resource consent from the Waikato Regional Council is required. This form will help you apply for a resource consent.

- You must fully complete this activity form and supply all the required information. Provide as much detail as you can where the questions are relevant to your activity. We request that, where possible, you provide electronic copies of any supporting information (for example, on CD). Doing so may reduce administrative costs charged to you.
- You must also supply completed Forms A and C.
- **You must pay the required initial deposit when you submit this consent application.**
- Failure to provide the required information and payment will delay the processing of your application. If you do not provide adequate information then we will not be able to process your application, and will return it to you. If you do not pay the required fees, we may stop processing your application until payment is received.

FOR OFFICE USE ONLY

| | |
|------------|--|
| File: | |
| Client ID: | |
| Project: | |

If you need any further help, please phone our Resource Use staff on 0800 800 402.

LOCATION

1. **What is the name of the nearest waterbody to the activity? (if the waterway is a drain or an unnamed stream, then what is the name of the stream, river, lake or wetland that it flows into)**

2. **If known, please supply relevant map coordinates of the activity or activities, preferably as New Zealand Transverse Mercator 2000 (NZTM2000 references). These locations must also be clearly identified on the location map you have supplied with Form A**

In regard to any treatment ponds, dams, diversion or culverts you should also provide:

- drawings showing or describing dimensions and design details
- description of purpose
- description of method of construction.

Design plans of any structures or works to be undertaken should also be included.

TYPE OF RESOURCE CONSENT SOUGHT

3. **The resource consents sought relate to the following activities.**

| Please tick | Previous consent number |
|--|-------------------------|
| <input type="radio"/> Discharge of stormwater to water | |
| <input type="radio"/> Discharge of stormwater to land | |

DISCHARGE LOCATION

DISCHARGE TO WATER

4. Is the discharge point in a coastal marine area?

Yes

No

5. Describe the dimensions, volume, rate of flow (as appropriate) of the stream/lake/river/coastal area, as it would appear in summer conditions.

6. Please describe the current nature of the waterway at the proposed site for the works.

| | |
|--|--|
| Water colour/clarity | |
| Flow | |
| Bed material (for example, rocky, silty) | |
| Bank material | |
| Vegetation | |
| Erosion | |
| Fish/invertebrate life | |
| Other | |

7. Describe the uses of the water body in the vicinity of the discharge (for example, water abstractions, recreational use, other discharges).

8. Describe the discharge structure (for example, 300 mm pipe, multiport diffuser, gravel trench).

9. What measures will be put in place at the discharge point to prevent erosion?

DISCHARGE TO LAND

10. Describe the nature of the discharge location.

| | |
|--|--|
| Slope: | |
| Ground cover: | |
| Land use: | |
| Erosion: | |
| Soil type (for example, sandy, loamy, clay): | |
| Other: | |

11. Describe how the stormwater is to be discharged (for example, sprinkler, single pipe outlet).

STORMWATER CATCHMENT INFORMATION

12. What is the total area of the catchment draining to the discharge point?

_____ (ha)

13. If the site is being developed, what is the total area of the catchment that will be exposed by earthworks at any one time during the construction phase?

_____ (ha)

14. Describe stormwater characteristics of the catchment, as it will be after the development is completed, in the following table:

| Catchment description | Land use | Area (hectares) | Design runoff coefficient |
|--|----------|-----------------|---------------------------|
| Undeveloped: left in natural state | | | |
| Developed: grassed, cultivated | | | |
| Developed: impervious surfaces, roads, carparks, roofed. | | | |
| Other: please specify | | | |

Note: for the purpose of determining the discharge rate to be authorised by the consent, stormwater calculations should be for at least a five year return period storm event. The length of time for the design storm event (for example, 10, 20, 60 minutes) depends on the catchment size (for example, a small catchment would be 10 minutes).

15. Stormwater discharge rate

What is the actual length of time and return period for the design storm?

_____ (minutes) _____ (years return period)

16. If the Rational Formula is used for stormwater calculations, provide the following:

| | |
|---|---------------------|
| time of concentration at discharge point | (minutes) |
| annual exceedance probability (AEP) of discharge | (%) |
| design rainfall intensity corresponding to time of concentration at discharge point | (mm/hr) |
| location of the rainfall station | |
| how was the rainfall intensity data derived from the rainfall station record? | |
| design discharge | (m ³ /s) |

17. If your method of flow calculation is other than the Rational Formula, state the method.

Design discharge: _____ (m³/s) (provide details of calculations on a separate sheet)

18. Design size of outfall: _____ (mm diameter pipe, or if non-circular, give details)

If there is more than one outfall, please provide separate sheets for details, as above, for each outfall (that is, photocopy this page and the previous page).

19. Identify any industrial sites within the catchment. (For example, meatworks, lime processing).

SUBDIVISION DEVELOPMENT

This section must be completed if the discharge is from a subdivision development.

20. Will there be future development in the upper catchment above this subdivision?

- Yes No Unknown

If yes, has the discharge been estimated for the ultimate catchment development?

21. Does the development site lie within a floodplain?

- Yes No Unknown

22. Are there present or potential problems with the disposal of stormwater in this catchment?

- Yes No Unknown

If yes, please supply details of problems and how they may be overcome.

23. Is the subdivision to be completed in stages?

- Yes No

If yes, are temporary outfalls planned?

Show the area of each stage with discharge quantity at each temporary outfall (in table format) on a separate sheet and attach.

24. Describe any treatment facilities which treat the stormwater prior to discharge. (For example, grit traps, oil separators, sediment ponds).

25. Describe the maintenance programmes of any treatment systems.

26. What happens with any oil or grit (for example) removed from treatment facilities?

27. Describe the expected characteristics of the stormwater including description of contaminants and likely maximum concentrations of contaminants.

28. Has any monitoring of the discharges been undertaken?

Yes No

If yes, please give details:

29. What procedures/methods (other than treatment) are taken to minimise:

- the volume of stormwater discharged
- the contaminant loading of waste discharged. (For development sites for example, such measures may include silt fences, contaminant source control, and other sediment control methods).

30. How will any proposed measures (to reduce the impact of stormwater discharge) affect receiving water quality?

31. How will proposed measures (to reduce the impact of stormwater discharge) affect erosion?

32. Describe all measures which will be used to ensure that non-stormwater wastes (sewage, industrial wastes, for example) will be excluded from the discharge.

33. Have alternative methods of treatment and discharge been considered? (Please give details).

ASSESSMENT OF EFFECTS ON THE ENVIRONMENT

Complete the appropriate section below (A: discharge to water, or B: discharge to land/into ground).

A: DISCHARGE TO WATER

- 34. Is there (or will there be) a noticeable change in colour/clarity of the receiving water as a result of the discharge? Please describe.**

- 35. How will the discharge change the existing water quality of the water body (for example in terms of dissolved oxygen, biochemical oxygen demand, suspended solids, nutrients, micro-organisms, toxicity) and state how this has been determined.**

- 36. How may the discharge affect plant/animal life of the receiving water?**

- 37. How may the discharge affect the flow/water levels in the water body?**

- 38. Are there (or will there be) any erosion/bank stability effects? Describe these effects and describe how you propose to avoid or remedy these effects.** *(Note: a land use consent may be required if erosion control structures or works on stream banks are needed).*

- 39. Describe any other effects caused by the discharge (such as effects on amenity values, recreation).**

B: DISCHARGE ONTO LAND OR INTO THE GROUND

40. What effect will the discharge have on the receiving environment? (erosion, flooding, contamination of land)

41. Are there likely to be other environmental effects of the wastewater treatment and disposal system? (For example, odour, visual effects, effects on nearby surface water).

CONSULTATION

Identify and consult with any parties that may be potentially affected by or interested in your activity. This generally involves your immediate neighbours. It may also include local authorities, iwi and interest groups such as local recreational and care groups. If you are in doubt about who you should be talking to, then call Waikato Regional Council staff.

Make sure you provide everyone with sufficient information that they can fully understand what it is you want to do and how they may be affected by it. This could include a copy of this application form once it is completed and and/or any plans or maps. Make sure you make yourself available to explain the application, answer any questions and discuss options for resolving any concerns.

42. Identify the parties that may be affected by or interested in your discharge activity and consent application

| | | |
|--|---------|-----------|
| Party details/relationship <i>(such as neighbour, local iwi, interest group)</i> | | |
| | | |
| Contact person | | |
| | | |
| Postal address | | |
| | | |
| | | |
| Phone number/s | Home: | Business: |
| | Mobile: | Fax: |

| | | |
|--|---------|-----------|
| Party details/relationship <i>(such as neighbour, local iwi, interest group)</i> | | |
| | | |
| Contact person | | |
| | | |
| Postal address | | |
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| | | |
| Phone number/s | Home: | Business: |
| | Mobile: | Fax: |

| | | |
|--|---------|-----------|
| Party details/relationship <i>(such as neighbour, local iwi, interest group)</i> | | |
| | | |
| Contact person | | |
| | | |
| Postal address | | |
| | | |
| | | |
| Phone number/s | Home: | Business: |
| | Mobile: | Fax: |

Other affected or interested parties

43. Provide details of your consultation

Provide details about the consultation you have undertaken, or explain why consultation was not considered necessary. If possible you should provide written comment or approval from those you have identified. A consultation form is provided at the end of this form that will help you with this. Photocopy off a separate form for each party identified. Otherwise, make sure you let us know:

- who you consulted with
- how we can contact these people
- their relationship to you (for example, neighbour, local iwi, interest group)
- any concerns they may have about your activity, and how you intend to avoid or mitigate (lessen) these effects.

FINAL CHECKLIST

44. Have you? (please tick)

- Filled in all parts of this form (Form B) that are relevant to your activity, provided all the information required, and completed and attached any other related activity forms.
- Completed and attached Forms A and C.
- Applied for any district council consents that are also required for your proposal.
- Consulted with all interested and affected parties, and included their comments and/or written approval (if possible).
- Included or paid the required deposit fee for this application.
- Completed the Low Impact Design Scoring Matrix.

CONSULTATION FORM

PHOTOCOPY THIS FORM FOR EACH PERSON OR GROUP TO BE CONSULTED

| | |
|-------------------------|--|
| Applicant | |
| Description of proposal | |

Person/group consulted in regard to this proposal

| | | |
|------------------------|--------|------|
| Name of contact person | | |
| Name of group | | |
| Street address | | |
| | | |
| | | |
| Email address | | |
| Contact number/s | phone: | fax: |

Consulted party's views on the proposal (to be completed by person/group consulted)

If you would like the Waikato Regional Council to know your views on the applicant's proposal, and/or if you consider you may be adversely affected, please indicate your views below (attach additional pages if necessary). Consider the following: How do you consider you will be affected? How would you like the applicant's proposal to be modified to take account of your views? What other comments do you have on the proposal that you would like the Waikato Regional Council to consider in making a decision on these resource consent applications?

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Applicant's response to views of consulted parties (to be completed by applicant)

Please indicate how your proposal can be modified to take account of the views of the party you have consulted with (or why the proposal may not be able to be modified to take account of those views).

| |
|--|
| |
|--|

Consulted party's response to the proposal (to be completed by person/group consulted) *Please tick one only*

- I/We give my/our approval for the proposal I/We do not give my/our approval for the proposal
 I/We are not affected by this proposal

Signed _____ Date _____

Low impact design scoring approach

Information contained in the report shall also include a low impact design scoring matrix for which the summation provides an overall score of the design. The scoring is based on Table 6-1 below which is found in the Waikato Stormwater Management Guideline. [TR20-07.pdf \(waikatoregion.govt.nz\)](#)

Table 6-1: Low impact design scoring matrix

| Implementation elements | Typical components | Scoring details | Score |
|-------------------------------------|--|--|-------|
| Source control maximised | Water re-use | 0-4 depending on % of total roof runoff captured | |
| | Site disturbance reduced from a conventional development approach | 0-3 depending on reduction as % of total site area | |
| | Impervious surfaces reduced from a traditional approach | 0-3 depending on reduction as % of total site area | |
| | Use of building or site materials that do not contaminate | 0 or 1 for residential 0-3 for commercial or industrial | |
| | Existing streams and gullies located on site (including ephemeral) are protected and enhanced. The entire stream other than possible crossings shall be protected to qualify for points. | 0-3 | |
| | Riparian corridors are protected, enhanced or created | 0-3 | |
| | Protection and future preservation of existing native bush areas | 0-2 depending on percentage of site area | |
| LID stormwater device/practice used | Infiltration devices to reduce runoff volume | 0-6 depending on % of runoff capture | |
| | Revegetation of open space areas as bush | 0-3 depending on % of site covered | |
| | Bioretention | 0-6 depending on % of runoff capture | |
| | Swales and filter strips | 0-3 depending on % of runoff capture | |
| | Tree pits | 0-6 depending on % of runoff capture | |
| | Constructed wetlands | 0-4 depending on % of runoff capture | |
| Traditional mitigation | Wet ponds | 0-1 depending on % of runoff capture | |
| | Proprietary devices | 0-1 depending on % of runoff capture | |
| | Dry detention ponds | 0 | |
| Urban design | Stormwater management is designed to be an integral and well considered part of the urban design. | 0-2 | |
| Tangata whenua values | Stormwater management has been designed considering Tangata Whenua values and demonstrates that these have been incorporated into the design | 0-2 | |
| Total score | | | |