

Resource Consent Application Form 23

Discharge of animal effluent to land



Otago
Regional
Council

This application is made under Section 88 of the Resource Management Act 1991

Phone: 0800 474 082

Website: www.orc.govt.nz

IMPORTANT NOTES TO THE APPLICANT

This form is to be used for the discharge of liquid animal effluent, or water containing liquid animal effluent from an animal effluent system onto or into land. In addition to this consent you may also require consent to use land for an animal effluent storage facility. Refer Application Form 24 or 29 for details

Please Note: The discharge of animal effluent to water is prohibited.

For the 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 entered on the form or supplied with the application then Otago Regional Council must return your application, request further information, or publicly notify your application.

A deposit is required when lodging your application. This deposit is not the final or maximum cost of your application and you will be invoiced at the end of additional costs. By lodging this application and signing Form 1 you undertake to pay all actual and reasonable processing costs incurred by the Otago Regional Council in processing your application.

SECTION A: GENERAL

1. Location of the proposed/ current discharge

Address	
Map reference in NZTM 2000 for your dairy shed	
Legal descriptions of where you will discharge your effluent to land (<i>Please include Certificates of Title less than 3 months old with your application for all land where the discharge is proposed</i>)	

2. Please complete the following tables which tells us about your property and effluent disposal area. Information can be found on the Otago Maps application, or by contacting ORC.

Property details	
Total farm area (ha)	
Effective farm area (ha)	
Size of effluent disposal area (ha)	
Fresh Water Management Unit	
Name of closest river or waterway	
Groundwater zone or aquifer under the property	

3. Are there any permanent or intermittent rivers, streams, lakes, drains, ponds or wetlands within 20 metres of the discharge area?

Yes (Go to question 4) No (Go to question 5)

4. Features of the rivers, streams, lakes, drains, ponds or wetlands within 50 metres from the discharge area include:

Signs of instream life (e.g. fish, eels, bullies, crayfish, native birds, frogs)	yes/no
Areas where food is gathered from a water body (e.g. watercress, eels, wildfowl)	yes/no
Bird nesting habitats	yes/no
Areas of particular aesthetic, cultural, heritage or scientific value (e.g. archaeological sites)	yes/no

5. Are there any bores or soak holes within 50 metres of the discharge area?

Yes No

6. Are you proposing to discharge effluent within:

20 metres of any lakes, rivers, ditches, drains, wetlands, or the coastal marine area?	yes/no
200 metres of a house on a neighbouring property or a public place such as a school or community hall?	yes/no
20 metres of a property boundary?	yes/no
20 metres of a natural wetland	Yes/no
50 metres of a water supply used for human consumption?	yes/no

7. If you are proposing to discharge effluent within these distances, what (if any) are the separation distances you are proposing?

SECTION B: DESCRIPTION OF THE PROPOSED ACTIVITY

8. Please complete the following tables which tells us about the volume of effluent generated and where it is collected.

Source of effluent	
What is the maximum number of animals from which you proposed to collect effluent under this resource consent? <i>*this number will go on your discharge permit.</i>	
How many cows/animals will be milked each day?	
How many times a day will you milk (maximum)?	
What is the general length of your milking season	(days)
	(dates)
What is the volume of wash down effluent generated per day?	(litres/day)
Do you scrape your yard before washing down?	yes no
Winter milking	
Does your milking season include winter milking?	yes/no
If yes, what is the number of cows to be milked in the winter?	
Dates of winter milking season	(provide dates)
Feed pad/wintering pad/stand off pad/other	
Number of cows on feed/wintering/stand off pad/calving pad	
What is the size of the area?	Square metres
Is the pad covered?	yes/no
Is there a rainwater diversion in place?	yes/no
Is it mechanically swept?	yes/no
If it is washed down, how much water is used?	Litres/day
How is effluent from this facility disposed of?	
Intended length of time facility is to be used	Days per year

9. Please describe how effluent will be collected, treated and discharged to land and when it will be discharged to land.

10. Using the information from the above in questions 8 and 9, please tell us the total volume of effluent to be discharged in cubic metres per day.

11. Please list any other sources of liquid effluent that is collected for discharge e.g stock underpasses and silage pads and describe how these sources are integrated into the effluent storage system.

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12. How are solids collected, where are they stored (on what surface), how and where are they spread? What is the frequency of spreading?

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13. Please tell us the following information about your irrigator(s):

Types to be used eg/ low rate pods or travelling irrigator	
Proposed instantaneous effluent application rate* <i>*This is the depth of effluent that would be applied to a soil surface if the irrigation system was run continuously for one hour.</i>	mm/hr
Proposed effluent application depth mm per application	mm
Is your effluent spread with G.P.S guidance?	
Has the effluent irrigator discharge rate been checked and calibrated recently? This is particularly recommended for high rate irrigators. If yes, please include the results of the test.	yes/no

SECTION D: EFFLUENT STORAGE AND TREATMENT

14. What volume of effluent storage and treatment do you have on site?

Type	Date installed (if known)	Number of these on site	Capacity in cubic metres
Effluent Pond/Tank			
Sump(s)			
Weeping wall/sludge bed			

Other (please specify)			

15. If you want to continue to use your current effluent pond/tank to store effluent as your main mitigation measure for your discharge then please confirm that the below has been completed:

My pond was constructed prior to 25 March 2020	yes/no	<i>Please include these documents with your application</i>
Certified by a suitably qualified person in the last five years as having no holes, cracks or defects that will allow effluent to leak from it?	yes/no	
Had a pond drop test completed on it and it meets the relevant criteria?	yes/no	
Been sized and constructed to meet the 90 th percentile requirement of the Dairy Effluent Storage Calculator?	yes/no	

16. If you need to build new storage, then please complete the below information, and make sure you fill in the application form for effluent storage. If not, go to question 16.

How much are you increasing your storage by?	Cubic metres
What volume of storage will you have once your new storage is in place?	Cubic metres
Is your new storage going to be the 90 th % size (or above) as recommended by the Dairy Effluent Storage Calculator?	Yes/no
When will your new storage be in place by?	Date
How will you manage your discharge to land until the additional storage is in place?	

SECTION E MANAGEMENT OF THE DISCHARGE

17. Please attach a copy of your Farm Management Plan that details the below. This can be a draft management plan, that is finalised once consent is approved. This can be an existing management plan that has been updated to include the below information that is required under Schedule 21 of the Regional Plan Water. The management plan must contain the following:
- physical address of where the animal effluent system is located, and the land where liquid or solid animal effluent is to be applied,
 - a description of the landholding ownership, and the contact details of the owner and the person in charge, (c) legal description(s) of the landholding
 - a list of all the relevant resource consents held for the landholding and their expiry dates,
 - a map(s) or aerial or satellite photograph(s) showing the locations of:
 - the boundaries of the landholding,
 - the location of any dairy shed, animal effluent storage facilities, and any other components of an animal effluent system,
 - lakes, rivers, natural wetlands, bores, soak holes, the coastal marine area, water supply for human consumption and dwellings within the landholding,
 - the area of land where liquid or solid animal effluent is to be applied, and in relation to this area:

- soil types and their risk profile¹,
 - any critical source areas and the locations of known subsurface drains.
- Operational procedures for using and maintaining the animal effluent system and for managing the discharge of animal effluent,
- Inspection, monitoring and reporting requirements and timeframes,
- The records of pond drop tests of the animal effluent storage facility undertaken at least every five years (excluding above-ground tanks, bladders, solid animal effluent storage facilities and an animal effluent storage facility with a leak detection system),
- Contingency measures to prevent the discharge of liquid or solid animal effluent to a water body, an artificial watercourse, or the coastal marine area, either directly or indirectly,
- Identification of measures to be taken to respond to a leak and the timeframe for response; including, for animal effluent storage facilities with a leak detection system where a leak is detected, a requirement for an assessment by a Suitably Qualified Person to be undertaken as soon as practicable and no later than two months of the detection to determine whether the leak is within the normal operating parameters of the pond, and
- Responses to any other system failures or emergencies, including timeframes for response.

SECTION F: GOOD MANAGEMENT

18. Are there any times when you will avoid disposing the effluent to land?

When there is snow on the ground	yes/no
Areas where food is gathered from watercourses (e.g. watercress, eels, wildfowl)	yes/no
When the soil temperature is at or below 5 degrees Celsius	yes/no
When the soil moisture conditions as per Council's monitoring site, or my own soil moisture site say it is unsuitable	yes/no
Other (please state)	

19. To minimise the risk of adverse effects from odour and spray drift, it is recommended that effluent shall not be discharged within 20 metres of the property boundary or 200 metres of any residential dwelling other than those on the subject property. If you cannot adhere to these buffers, please describe what effects there may be beyond the property boundary resulting from odour and/or spray drift and whether any neighbouring properties may be adversely affected.

SECTION G: ASSESSMENT OF ENVIRONMENTAL EFFECTS

20. Describe the actual and potential effects your discharge of liquid animal effluent may have on water quality. This includes ground and surface water quality.

¹ Footnote 1: A digital soil map for New Zealand can be found online at <https://smap.landcareresearch.co.nz>

For example: The discharge of liquid animal effluent to land has the potential to impact water quality through application beyond the soil's water holding capacity, overland flow, ponding and inappropriate setbacks to waterbodies. The effluent will be discharged to land using a low rate system, when soil moisture conditions are suitable and at least 20 metres from any waterbody. This means that effluent will not be directly discharged to surface water and should not enter groundwater. The capacity of my storage facility is sufficient to defer irrigation in unfavourable weather conditions.

21. Describe the actual and potential effects your discharge of liquid animal effluent may have on Kai Tahu cultural and spiritual beliefs, values and uses.

For example, the discharge of liquid animal effluent to land has the potential to impact Kai Tahu values. The discharge is directly to land and is not to water, is low rate and will only be to land when soil moisture conditions are suitable. The discharge will not be within 20 m of any waterway. There are no wāhi tapu sites near the discharge and no culturally significant species in waterways near where effluent is discharged to land.

22. Please describe the actual and potential positive effects of your discharge of liquid animal effluent and any information you feel comfortable including about the value of your existing investment in the animal effluent system and upgrades.

For example, the discharge to land allows for the re-use of nutrients in the effluent and reduced fertiliser inputs on the property. The farm also provides for employment for works and contributes to the social wellbeing of the community.

SECTION H: ALTERNATIVES

23. Have you considered alternative methods of discharge or locations of discharges? Please provide details of any alternatives considered, and the reasons for choosing the proposed method and location of discharge.

For example, I considered using a slurry tanker but the proposed method is the best for my farm. I did not consider other locations.

SECTION I: CONSULTATION

24. Please describe any consultation undertaken with persons/parties potentially affected by your proposed discharge. You do not need to consult, but if you do, please include evidence of this.

25. Please attach any written approvals received to the application. *Council only accepts unconditional written approvals and any conditions proposed by affected parties need to be incorporated into the application. You do not need to do this at this stage – check with Council first.*

PLANNING ASSESSMENT

The Resource Management Act 1991 requires you to make your own assessment of your proposal against relevant policies. A separate planning assessment sheet is available to use, or you can do your own assessment. An assessment must be included with your application.

SECTION J: CONSENT DURATION

Policy 7.D.7(e) provides direction that consent duration for this type of activity should be 10 years. If you want your consent to be longer than 10 years, please provide reasons as to why this is justified.

10 years other (please specify and explain why below)

SECTION K: CHECK LIST

Use the checklist below to ensure you've provided all of the relevant information:

- Fully completed this application form and Form 1? Attached a management plan? Paid your deposit?
- Attached a detailed site map? Attached any relevant photos? A policy assessment