

Part B Assessment of Environmental Effects – Discharge Animal Effluent to Water and/or Land



Caring for Northland and its Environment

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This application is made under Section 88/Section 127 of the Resource Management Act 1991

To: The Secretary
Northland Regional Council
Private Bag 9021
Whangarei 0120

PART B – ASSESSMENT OF ENVIRONMENTAL EFFECTS

Your application must include an Assessment of Effects on the Environment. This form is a guide to help you prepare it.

An assessment of effects is required so that you and others can understand what happens to the environment when you discharge animal, including farm dairy, effluent to the environment (eg. what happens to surrounding land, rivers, streams, lake, wetlands and groundwater). This will help you to propose ways to minimise those effects to the Regional Council's satisfaction.

The degree of detail required is in proportion to the scale of the environmental effects of your proposal. If the size of your proposed activity or the scale of its potential effects is significant, a report by a professional advisor in support of your application may be required.

Please note that the word "environment" includes the surrounding water bodies, land, any surrounding resource users, and local iwi.

It is advised that you either telephone or make an appointment with an appropriate Council Officer to discuss your application prior to lodging it. This will help you supply all the required information at the outset and ensure the efficient processing of your application.

A. General Details

A.1 Which Dairy Company do you supply?

- Fonterra / NZMP Supply Number _____
- Fresha Valley Supply Number _____
- Other Supply Number _____
- Not applicable

A.2 Which District is the property in?

Kaipara

Far North

Whangarei

A.3 Do you hold any consents for water takes, eg. for pasture irrigation?

No

Yes. Type of consent _____ Consent No _____

B. Description of the Proposed Activity

Discharge Details

B.1 What is the source of the effluent? *(tick all the appropriate boxes below)*

Dairy Shed

Feed Pad

Calf Shed

Wintering Pad/ Barn

Other *(please describe)* _____

B.2 What is the maximum number of cows milked during winter? _____

B.3 What is the maximum number of cows milked during summer? _____

B.4 What is the maximum volume of effluent produced daily? *(refer to information requirement booklet for calculation)*

B.5 Over what periods (months) of the year do discharges from the treatment system normally occur?

Treatment System

B.6 What does your proposed treatment system consist of?

(please tick all the appropriate boxes and answer the associated questions)

Ponds *(provide details on each pond)*

	Length	Width	Depth	Holding Capacity (cubic metres)	Baffle at Outlet (Yes / No)
Pond 1					
Pond 2					
Pond 3					

Is there a stone trap prior to the first pond? Yes No

What type of filter/flow control structure is installed on the outlet from the ponds?

T-Piece Elbow Baffle Drum None

Other (please describe) _____

Constructed Wetlands *(provide approximate details on any constructed wetland)*

	Length	Width	Surface Area (square metres)
Wetland 1			
Wetland 2			

What type of vegetation has been planted in the wetland? _____

Has any natural wetland been modified? Yes No

Barrier Ditch

How many barriers are there in the ditch? _____ *(provide the following details on the ditch in sections)*

	Total Length	Width	Depth	Holding Capacity (cubic metres)
Section 1				
Section 2				
Section 3				
Section 4				

Drain (unbaffled)

	Estimated Length	Width	Depth	Holding Capacity (cubic metres)
Drain				

Does the drain continually flow all year round? Yes No

Does the drain discharge into any natural water body (ie. lake, stream or coastal waters)?

No

Yes, What is the name of the water body? _____

What is the distance from the discharge point into the drain to the next downstream inflow point?
 _____ metres

Other

If you have a treatment system which does not fit into any of the above categories, please describe it below, or on an attached sheet. Ensure that dimensions and storage capacities are supplied.

C. Site Details

C.1 You **must** attach a map which clearly shows the location of the property and the following:

- The legal boundaries of your property
- The location and names of any adjoining roads in the area
- The location and layout of the dairy shed, treatment system and any effluent disposal areas
- Water bodies within 200 metres of the treatment and disposal areas
- The location of any discharge points into any receiving waters and/or the point at which the effluent leaves the farm boundary.

C.2 What is the slope of the existing or proposed treatment and disposal area?

- | | |
|--|--|
| <input type="checkbox"/> Flat | <input type="checkbox"/> Slightly sloping (5°-15°) |
| <input type="checkbox"/> Sloping (15°-30°) | <input type="checkbox"/> Steep (greater than 30°) |

C.3 Are there any stormwater diversion systems in place at the yard, or the associated buildings to prevent water entering the treatment system?

Yard

- No
- Yes (*describe*) _____

Buildings

- No
- Yes (*describe*) _____

Are there any stormwater diversion systems in place to prevent runoff into the treatment system?

- No
- Yes (*describe*) _____

D. Assessment of Effects on the Environment

For your application to be considered, an assessment of effects must be included.

An assessment of effects should be proportional to the scale and significance of the proposed activity. Where your discharge could have an adverse effect on the environment, a more detailed environmental assessment will be required.

D.1 Affected Parties

Does the proposed discharge have the potential to affect other people eg. by contamination of waterways or groundwater, or odour?

No. If you consider that no other parties will be affected, please explain why not _____

Yes. If you consider that other parties could be affected, please explain how they could be affected

If written approvals are obtained from all parties that may be affected by the discharge and the effects of your proposed discharge are minor, then the Regional Council is likely to process your application without public notification. Refer to the explanatory sheet for details on who may be affected by your proposed discharge.

If written approval cannot be obtained, please suggest ways in which you will reduce the effect on neighbours (mitigation measures) _____

If you propose to discharge to farm dairy effluent to land answer question D.2 to D.4, otherwise go to D.5.

D.2 For Discharge to Land, given the separation distance to groundwater, property boundaries and any nearby groundwater bores, and whether or not the proposed treatment and disposal system would result in groundwater contamination?

No, provide reasons _____

Yes, describe the effects _____

D.3 Considering the soil type, will the proposed loading rate (volume of effluent discharged per unit area) result in adverse effects beneath the disposal area?

No, provide reasons _____

Yes, describe the effects _____

D.4 Will the proposed loading rate (volume of effluent discharged per unit area) result in surface runoff into any water bodies?

No, provide reasons _____

Yes, describe the effects _____

If you propose to discharge farm dairy effluent to water answer question D.5, otherwise go to D.6.

D.5 For discharge to water (including wetland), are there any of the following in the vicinity of the proposed discharge point?

	Present	
	Yes	No
Obvious signs of known water life (eg. eels, other fish, insects, plants)?	<input type="checkbox"/>	<input type="checkbox"/>
Areas where food is gathered (eg. watercress, eels, wildfowl)	<input type="checkbox"/>	<input type="checkbox"/>
Natural wetlands	<input type="checkbox"/>	<input type="checkbox"/>
Recreational activities (eg. swimming, fishing, canoeing)	<input type="checkbox"/>	<input type="checkbox"/>
Areas of special aesthetic value (eg. waterfalls)	<input type="checkbox"/>	<input type="checkbox"/>
Areas of significance to Maori (iwi)	<input type="checkbox"/>	<input type="checkbox"/>

If you have answered **Yes** to any of the above, describe what effect your discharge may have and the steps you propose to take to minimise (ie. mitigate) these effects (attach a separate sheet if necessary).

D.6 Consultation

Have you consulted with any of the following potentially affected parties:

	Yes	No
Neighbours	<input type="checkbox"/>	<input type="checkbox"/>
Other downstream water users	<input type="checkbox"/>	<input type="checkbox"/>
Neighbouring groundwater users	<input type="checkbox"/>	<input type="checkbox"/>
Department of Conservation <i>(if relevant)</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fish and Game Council <i>(if relevant)</i>	<input type="checkbox"/>	<input type="checkbox"/>
Local iwi <i>(specify)</i> : _____	<input type="checkbox"/>	<input type="checkbox"/>
Other <i>(specify)</i> : _____	<input type="checkbox"/>	<input type="checkbox"/>

Please attach record of the consultation carried out.

D.7 Best Possible Options

If you feel that your system will not meet the required receiving water guidelines as specified in the explanatory sheet, what available alternatives for the Best Practicable Options (BPO) do you propose?

Please ensure all of the relevant questions on this form have been answered fully, and maps and any written approvals are provided to the Council.

Note: *If there are other types of discharge of contaminants, including animal waste you have applied for above, on your property, these may also require a resource consent. An example is a silage stack alongside a stream/watercourse.*

If you have any queries relating to information requirements or wish to meet with a Council Consents Officer, please contact the Northland Regional Council.

Northland Regional Council Offices:			
<p>Whangarei Office 36 Water Street Whangarei Phone: (09) 438 4639 or 0800 002 004 Fax: (09) 438 0012 mailroom@nrc.govt.nz www.nrc.govt.nz</p>	<p>Dargaville Office 61B Victoria Street Dargaville 0300 Phone: (09) 439 3300</p>	<p>Kaitaia Office 192 Commerce Street Kaitaia 0500 Phone: (09) 408 6600</p>	<p>Opuia Office Unit 10 Industrial Marine Park Opuia 0290 Phone: (09) 402 7516</p>