Application for
Resource Consent: Dairyshed Effluent Discharge

horizons REGIONAL COUNCIL

Form B: Activity Information and Assessment Form

A complete Administration Form (Form A) MUST accompany this Activity Information and Assessment Form (Form B) when lodging your application. The purpose of this Form B is to provide the applicant with guidance on information that is required under the Resource Management Act 1991. These forms are to act as a guide only, and Horizons Regional Council reserves the right to request additional information.

APPLICANT NAME .....
(Refer to Form A)

1 APPLICATION PURPOSE

What is the purpose of this application (select one)

◯ New consent
If this is a new dairy farm you will need to lodge an application for Intensive Farming in conjunction with this form

◯ Renewal of consent
Consent number ..... Expiry date.....

Consent term sought .....
(Max. 35 years)

Note: Resource consents are typically aligned with the relevant common catchment expiry dates in Policy 12-5 of the One Plan.

2 SITE DETAILS

Farm name..... Supply number .....

Location of the proposed discharge

Address .....

.....

Map reference (NZTM 2000) E..... N .....

Legal description

A detailed site map is required with this application, please see Section 10 - additional information required.

3 DESCRIPTION OF PROPOSED ACTIVITY

Farm dairy effluent production

How many cows will be milked each day? .....

How many times per day will you milk (maximum)? .....

What is the length of the milking season? .....(days) ..... (dates)

Do you winter milk? ◯ Yes ◯ No How many cows? .....

How many times per day will you milk? .....

Please ensure that all figures provided correlate with the information provided in the Dairy Effluent Storage Calculator (DESC) and Overseer files.

How will the yard be cleaned?

◯ Using washwater
If washwater is used will this be recycled greenwater? .....

◯ Dry scraped

Is a stormwater diversion in place on the yard? ◯ Yes ◯ No

Feedpad/wintering pad/standoff pads

Number of cows on feed/wintering/stand-off pad .....

Is your feedpad area sealed? ◯ Yes ◯ No How? ◯ Concrete ◯ Other Size .....sq metres

Is the feedpad/wintering pad roofed? ◯ Yes ◯ No

Is a stormwater diversion in place? ◯ Yes ◯ No

How will the yard be cleaned?

◯ Using washwater
If washwater is used will this be recycled greenwater? .....

◯ Dry scraped

Intended length of time the area is to be used? .....

Where does effluent from this area go? .....

Feed storage area

What feed do you store? *(e.g. maize silage, grass silage, palm kernel)*

Please describe .....

Is your feed storage area sealed? ◯ Yes ◯ No How? ◯ Concrete ◯ Other Size .....sq metres

Where does effluent from your feed storage area go? *(If applicable)*

.....

Distance of feed storage area to closest waterway ..... metres

Distance of feed storage area to closest bore ..... metres

Other sources

Does your farm have an underpass? ◯ Yes ◯ No

Where does effluent and stormwater from the underpass go? .....

.....

Storage facility

- You MUST submit an up-to-date Dairy Effluent Storage Calculation (DESC) supporting this application.
- Please contact an agricultural consultant to undertake this calculation for your farm.
- Please provide a plan of your effluent storage facility, including any effluent ponds, or sumps.
  (Please show dimensions – depth, width, length, batter etc)

Based on the DESC, what is the minimum required available working capacity for storing effluent?
(E.g. the minimum pumpable volume, which excludes stonetraps, settling ponds, a minimum 300mm vertical free-board,and unpumpable sludge at the base if the pond/s?)

..... m^3

Is this minimum storage currently available? ◯ Yes ◯ No

If 'No' please advise by what date the minimum storage capacity will be increased to this volume.

.....

If you are building a new storage facility what is the type of lining? (*Select one)*

◯ Synthetic/Artificial - product specification required.

◯ Clay - sign off required by a chartered professional engineer experienced in an appropriate field e.g. civil, geo-tech, structural engineering.

◯ Above ground storage facility - product specification required.

◯ Other *(Please state)* .....

If you are not installing a new storage facility when was your storage facility installed? .....

Based on the above descriptions, what kind of lining does your current storage have? .....

.....

Nutrient management

How many hectares does your Overseer effluent report require you to have for effluent discharge? ..... ha

Please include copies of the Overseer output reports corresponding with this consent application, see Section 10 information requirements.

What is the total area (in hectares) that your irrigation infrastructure can cover?

..... high risk ..... low risk..... TOTAL (ha)

Please ensure that the discharge area is clearly marked on your site map

Will any fertilisers be used on the effluent application areas? ◯ Yes ◯ No

If yes, please note Rule 14-5 regarding the discharge of fertiliser to land

What is the predicted nitrogen loss to the environment? *(Derived from the Overseer Nutrient Budget).*

.....kilograms per hectare per year

Effluent discharge to land

Does your discharge area have artificial drainage (e.g. tile, mole, nova drains)? ◯ Yes ◯ No

If yes, please ensure these are marked on your site plan.

Method of spreading liquid effluent (please select applicable method and state make and model of irrigator).

◯ Pivot irrigator.....

◯ Travelling irrigator.....

◯ Gun irrigator .....

◯ K-Line (pod).....

◯ Muck spreader .....

◯ Removed by contractor (name) .....

Frequency .....

◯ Other (please specify) .....

What do you do with solid wastes such as sand trap cleaning and pond sludge?

What is the proposed maximum effluent application depth? ..... mm per application

Has the effluent irrigator discharge rate been checked and calibrated recently? ◯ Yes ◯ No

If 'Yes' please provide results from this test.

Do you discharge any other form of effluent to land? (e.g. piggery, poultry litter) ◯ Yes ◯ No

If 'Yes', please provide details

Water source

Where do you take water from? Please describe.

Watercourse .....

Bore .....

Other .....

Washdown water volume ..... m^3/day (total)

NB: Horizons use the standard industry volume of 70 litres/cow/day for dairyshed washdown water. If you believe you are using less than this please provide the calculations below.

Do you have a current consent for your water take? ◯ Yes ◯ No

Consent # .....

The permitted daily water take for shed washdown and stock drinking water differs depending on where the water is sourced from:
Surface water is 30,000L/day;
Groundwater is 50,000L per day.

4 RULE 14-11 ASSESSMENT

To determine if your application will be assessed as a Controlled Activity for which consent must be granted (Rule 14-11), or a Discretionary Activity (Rule 14-30) for which consent may or may not be granted, we need to understand if your effluent discharge meets all of the conditions of Rule 14-11.

Please work your way through the following table. **You need to explain how you meet or do not meet the relevant conditions, a blank space will not be accepted.**

Rule 14-11

Will the discharge of farm animal effluent onto or into production land include:

- ☐ effluent from dairy sheds and feedpads
- ☐ effluent received from piggeries
- ☐ sludge from farm effluent ponds
- ☐ poultry farm effluent
- ☐ and any ancillary discharge of contaminants into air

Will the discharge comply with the conditions, standards and terms of Rule 14-11 (below)?

Conditions/Standards/Terms	Yes/No/N/A	Explanation
Will there be any direct discharge or run-off of effluent into a surface water body or artificial watercourse?		
Are all effluent storage and treatment facilities sealed to proposed seepage of effluent (maximum permeability $1x10^{-9}$ metres per second)? *This includes drains/pipes to transport effluent.*		
Will the discharge comply with the following separation distances? i. for discharges of piggery effluent, 150m from any residential buildings, public places and amenity areas where people congregate and education facilities?		
ii. for other discharges, 20m from any residential building, public places and amenity areas?		
iii. for all discharges 50m from rare habitats, threatened habitats, and at risk habitats?*		
iv. for all discharges 20m from bores, surface water bodies, artificial watercourses, and the coastal marine area?		
v. for all discharges, 50m from any historic heritage identified in any district or regional plan?		
Will any storm water be discharged into the effluent treatment and storage facilities? If so, does the DESC take the stormwater volume into account?		
Is the discharge accounted for in a recent Nutrient Budget using the Overseer model, and will it be carried out in accordance with the Nutrient Budget?		
Will there be any offensive or objectionable odour, dust, or effluent drift beyond the property boundary?		

**If the area where you are considering works contains or is adjacent to an area containing indigenous plant species (which may include scattered exotic species), coastal dunes, wetlands, tussock (unless red tussock regenerating through pasture dominated by exotic grass species), or a waterway, you may need further assistance. Please contact the Horizons consents team in the first instance or obtain advice from your own qualified ecologist as to whether it is considered an at-risk, rare or threatened habitat.*

Further information on rare, threatened or at-risk habitats can also be found in Schedule F of the One Plan, which can be accessed via http://www.horizons.govt.nz/publications-feedback/one-plan/part-3-annexes/schedules.

Activity Status

- If you have met all of the above conditions/standards/terms your application is CONTROLLED ACTIVITY, you can proceed to fill out this form to complete your application, including an appropriate Assessment of Environmental Effects.
- If you have not met one or more of the conditions/standards/terms above, your application may be a DISCRETIONARY ACTIVITY. You may need to contact a member of the consents team for further assistance with the information requirements for a full Assessment of Environmental Effects, appropriate to the scale of the non-compliance with the rules above.

5 ASSESSMENT OF ENVIRONMENTAL EFFECTS

For your application to be considered, an assessment of effects must be included. Please answer all questions below. Additional information may need to be provided depending on the scale and significance of your proposal.

What effect will the discharge of effluent to land have on

Soil *(Based on discharge method and loading rate)*

Groundwater *(Note separation distances and discharge methods)*

Surface water *(Note separation distances)*

Neighbouring properties *(Note separation distances, management of potential odour)*

6 GOOD MANAGEMENT PRACTICES AND MITIGATION MEASURES

Please include a description of the monitoring or good management practices to be undertaken to help avoid, reduce, remedy or mitigate the actual and potential effects on the environment.

You may like to look at the following links for guidance:

- http://www.horizons.govt.nz/managing-natural-resources/consents-monitoring/rural
- https://www.dairynz.co.nz/environment/effluent/managing-and-operating-effluent-systems

Are there any times that you will avoid discharging effluent to land?

E.g. When soil moisture conditions are unsuitable, when it is too windy resulting in spray drift

What contingency plans do you have in place in the event you are unable to discharge the effluent to land, including during bad weather conditions or if any equipment breaks down?

E.g. The capacity of my effluent storage is sufficient to defer irrigation in unfavourable weather conditions

What good management practices will you use to avoid or mitigate the effects and the risks of your discharge to the environment?
E.g. Low rate effluent discharge, nutrient management

What maintenance do you carry out on your effluent system, and how often do you do so?

What checks do you undertake on your effluent storage and disposal system to ensure it is not leaking or broken?

How do you monitor the effluent discharge?

7 CONSIDERATION OF ALTERNATIVES

You need to consider alternative methods of discharge or locations of discharge.

Please provide details of any alternatives considered, and the reasons for choosing the proposed method and location of discharge.

8 NATIONAL ENVIRONMENTAL STANDARDS

NATIONAL ENVIRONMENTAL STANDARD FOR SOURCES OF HUMAN DRINKING WATER (NES-DW)

Are there any public water supplies that could be affected by your effluent discharge? ◯ Yes ◯ No

An assessment under the NES-DW will need to identify any sources of human drinking water that supply more than 25 people who might be affected by the discharge. Horizons Regional Council holds a list of such water supplies within its region, and will be able to provide assistance when identifying water supplies within the vicinity of the farming activity.

Discussion with the water supply operator may also be beneficial in determining whether the supply could be affected and what measures can be taken to ensure the quality of the water supply is maintained.

Please state any other NES that you consider may be relevant to your activity and provide an assessment against that NES.

9 RELEVANT STATUTORY PROVISIONS

The Resource Management Act 1991 requires this application to include an assessment of the proposed activity against the One Plan. Answering the following questions will satisfy this requirement. If you are unable to answer the questions below, or you believe your proposal is inconsistent with the relevant policies and documents discussed, it is recommended you seek professional planning assistance to help you with your application.

For a complete copy of the One Plan visit http://www.horizons.govt.nz/publications-feedback/one-plan

REGIONAL POLICY ASSESSMENT

The objectives and policies of Chapter 5 (Water) are relevant to this application.

Is the activity consistent with the relevant provisions of the Regional Policy Statement? ◯ Yes ◯ No

Please provide reasons for your answer above

Please list any other relevant objectives and/or policies of the Regional Policy Statement and provide an assessment of the activity against those objectives and/or policies.

REGIONAL PLAN ASSESSMENT

Objective 14-1 and Policy 14-2, 14-4 and 14-9 of Chapter 14 of the Regional Plan are relevant to this application.

Is the activity consistent with the relevant provisions of the Regional Plan? ◯ Yes ◯ No

Please provide reasons for your answer above

If there are any other sections of the One Plan or any national planning documents (e.g. NZ Coastal Policy Statement) that you consider relevant, please provide an assessment of the activity against those relevant objectives/policies of the One Plan and/or national document.

10 ADDITIONAL INFORMATION REQUIRED WITH THIS FORM

- ☐ Completed administration form (Form A)
- ☐ A SITE plan to scale that clearly shows:
  - The cowshed and yard/s
  - The effluent storage system *(e.g. sumps, stone traps, ponds, pipes and drains etc)*
  - Feedpad/s and feed storage area/s *(if applicable)*
  - Roads and houses
  - Effluent irrigation area and buffer distances between boundaries/residences/public roads/watercourses etc.
  - Drains *(including tile, mole and subsurface drains)*
  - Distance in metres from discharge area to; *(only include those features that are applicable to your property)*
    - Waterbodies, lakes, wetlands and any other surface water
    - Bores
    - Rare, threatened or at-risk habitats
    - Coastal marine area
    - Historic heritage sites
  - Any other relevant aspects
- ☐ Soil map *(if available)* – contact Horizons for a regional scale map of your farm
- ☐ Plan of effluent holding facility including effluent ponds and sumps
- ☐ Overseer Nutrient Budget
- ☐ As well as the electronic file, please ensure you include copies of;
  - Overseer – effluent report
  - Overseer block reports – for those blocks that receive liquid/solid effluent discharge *(including crop blocks)*
  - Overseer parameter report showing cow numbers and feedpad use which corresponds with this application
- ☐ Dairy Effluent Storage Calculation (DESC) *(please provide electronic file)*
- ☐ Pre-build plan (clay) or product specification (artificial liner, above ground storage facility)

Please contact the consents team on freephone **0508 800 800** if you require assistance with your application.