

TE KAUNIHERA Ä-ROHE O TE MATAU-A-MÄUI

Previous Consent No.	
Charge No.	
NAV No.	
Application No.	

Office Use

# Form 'B' – Assessments of Environmental Effects Application to Discharge Dairy Effluent to Land and to Discharge Odour and Airborne Contaminants to Air

Арр	licant Name	e :_		(from form A, Q1.4)						
1.	Details of	the Ch	anges of Conditions Requested ent □ (move to Q 2)	· · · · · · · · · · · · · · · · · · ·						
1.1	What is the number of the consent you wish to change?									
			ne consent, with annotations showing anges you wish to make below.	g the changes you are requesting, or						
Con	dition #	C	change requested							
		,								

Now go through the form and confirm, the details of your discharge, as some will change as a result of the change.

#### **DETAILS OF THE ACTIVITY**

#### 2. Location of the Activity

	Street Address of the Milk Irrigation Area	ring Shed, Effluent Storage Pond and Farm Dairy Effluent (FDE)
1	Legal Descriptions(s)	
	Milking Shed Storage Pond Any Water Take(s) FDE Irrigation Area(s)	

#### 2.2 **Documents to Include in Application**

#### A Site Plan

Please attach a detailed plan (on an aerial map if possible) showing the general layout of your operation. Include on the map, locations of the:

- Milking shed and yard,
- Feedpad (if applicable),
- Storage pond,
- Cross hatched shading of the total primary and secondary (emergency) farm dairy effluent discharge area (in the paddock) including each areas total size in hectares.
- Buffer zones (unsafe areas where effluent will not be applied) from:
  - o Property boundary's,
  - o Public roads.
  - o Wells,
  - Surface water bodies (flowing or not),
  - o Off-site dwellings (residential houses).
- Point of take for water to supply the milking shed,
- Surface water bodies, wells/bores, public water supplies,
- Any other area of interest.

#### **B** Storage Pond Calculation Summary Report

All new applications (including replacement consents which do not currently have an effluent storage pond or were not previously required to have the pond storage calculated by Massey University / Horizons Regional Council Pond Storage Calculator) are required to use the Massey University / Horizons Regional Council Pond Storage Calculator to determine the minimum pond size. Your DairyNZ or Fonterra representatives are able to run this calculator for you.

Note: The pond size determined by the Pond Storage Calculator is to be designed for the maximum rainfall event.

1	If your herd size is greater than 100 animals, you are required to provide a predictive (e.g. for the upcoming milking season) Overseer® Nutrient Budget prepared by an approved provider. Please also provide the electronic "OVP" files to the Consent Advisor via email consentadvisor@hbrc.govt.nz at time of application.												
2.3	Is there a	a feedpa	ad?		Y	es			No				
	If yes, is	the feed	pad cove	ered?	Y	es			No				
2.4	Are there	e clean s	stormwa	ater dive	ersions f	rom	any	of the	impervi	ous are	as?		
					Y	es			No				
	If yes, where are the clean stormwater diversions, when do they operate and where do they discharge to?												
•													
2.5	What is t	the total	area th	at captu	res farn	ı dai	iry e	effluent	for later	applica	ition to	land?	
	Milking	Shed:							m <sup>2</sup>				
	Yard:								m <sup>2</sup>				
	Feed-pa	ad				•			m <sup>2</sup>				
	Any oth	er areas							m <sup>2</sup>				
	Total su	ırface ar	ea captu	ıring dair	y effluen	ıt .			<u>m²</u>				
2.6	2.6 Where is the milk discharged to if it cannot be picked up?												
2.7	Farm Da	iry Efflu	ent Prod	duction									
Maxim	num num	ber of ar	nimals be	eing milk	ed each	mon	nth						
Jan	Feb	Mar	April	Мау	June	Ju	ly	Aug	Sept	Oct	Nov	Dec	]

Overseer® Nutrient Budget

С

Numbe	er of milk	ing days	s per yea	r							
What is	s the mill	king freq	uency?	E.g. twic	e a day?	Three t	imes ov	er two da	ays?		
What is the maximum volume of liquid farm dairy effluent generated? (m³/month, based on maximum number of animals milked per month)											
Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
2.8 <b>C</b>	Describe	the nat	ture of th	ne efflue	ent discl	harge; i	ncluding	g:			
The pe	ercentage	e of solic	ls in the	effluent:	%						
			inants (a								ion of a
Will so	lid efflue	nt be se	parated :	from the	·	fluent pr	ior to en	tering th	_		
If yes:									_		
•	s the me	thod of s	separatio	n?							
			ent be sto		_						
			ent be dis		- !?						
					_						
2.9 <b>F</b>	low will	the yar	d and/or	feed-pa	ad be cle	eaned?					
ι	Jsing wa	sh wate	r [							_	_
_	)m.c.oron		f wash w ┌	ater is u ⊐	sed, will	this be r	ecycled	green w	ater? Y	′es □	No 🗆
L	Ory scrap	ea	L	_							
2.10	Describe	any oth	ner meth	ods for	capturi	ng farm	dairy e	ffluent:			

2.11	Indicate wheth management		ollowing colle	ection areas	are part of	your effluent	
	Stone Trap						
	Sump		Volume	m³			
2.12	Storage Pond						
Wha	t is the minimum	ı volume	of the effluent	storage syste	em?		
	As determine	d by the	Horizons Reg	ional Council	Pond Stora	ge Calculator	
	Pond(s)	<u>-</u>	m³				
Desc	ribe how the far	m dairy	effluent in the p	oond will be m	nanaged (i.e	e. aeration, mor	nitoring)
2.13	Water Sources	S					
Is the	e farm dairy efflu	ient appl	ication area lo	cated over an	Unconfined	d Aquifer?:	
	,			Yes 🗆		No □	
\	t to the end on the to-	41			1		
vvna	t is the depth to	tne grou	ndwater table	at its nignest i			
		metres	below ground			x if water level iring wet condit	
How	has this been d	etermine	ed				
2.14	Nutrient Mana	gement					
Will f	ertilisers be use	d on the	effluent applic	ation areas?	Yes $\square$	No 🗆	
	t is the total ame		nutrients to be	applied to the	e effluent a <sub>l</sub>	oplication area	? Both effluent
	Nitrogen		kilograms p	er hectare pe	r year		
	Phosphorus		kilograms p	er hectare pe	r year		
	t are the predic		ogen and Phos	sphorus losse	s to the en	vironment? De	erived from the
	Nitrogen		kilograms p	er hectare pe	r year		
	Phosphorus		kilograms p	er hectare pe	r vear		

	What is the minimum application of 150 kg/ha				achieve a Nitrog	jen
	What is the minimum la Nitrogen application of				equired to achiev ectares	e a
2.15	Effluent Application to	Land				
	Area of Discharge					
Is the	proposed effluent disch	arge area:				
	An existing farm dairy e	ffluent discharg	ge area?			
	A new area that has no	t been used for	the discharge of fa	rm dairy efflu	ent before?	
	If yes, what is the curre	nt land use? _				
What	is the proposed land are	ea for effluent a	application?			
			High riskh Low riskh	nectares nectares		
2.16	Effluent Irrigator Deta	ils				
Meth	od of spreading liquid ef	fluent <b>(please t</b>	ick applicable)			
	Pivot irrigator		Travelling irrigate	or		
	Gun irrigator		K-Line (pod)			
	Muck spreader		Removed by con	tractor		
	Other (please specify) _					
Is the	e irrigator:	Fixed Rate Ap	plication $\square$	Variable R	ate Application	
If fixe	ed rate, what is the applic	cation rate of th	e irrigator?		mm/hour	
If var	iable rate, what is the ma	aximum applica	ition rate of the irrig	ator?	mm/hour	
lf var	iable rate, what is the m	nimum applicat	tion rate of the irriga	ator?	mm/hour	
Is an	y effluent applied via fert	igation?	Yes □	No 🗆		
If yes	s, please confirm whethe	r or not back flo	ow prevention is ins	stalled: Yes □	] No □	

# 2.17 Effluent Irrigation Details What is the proposed maximum application depth? mm What is the proposed maximum application rate? \_\_\_\_mm/hour What is the proposed minimum interval rate between applications? days How have the figures above been determined? Yes □ No □ Will soil moisture be monitored? If yes, how? How will suitability for irrigation be determined? How will solids that are removed from the farm dairy effluent pond i.e sludge, be disposed of? Does your irrigator/pumping system have an alarm or de-activation device in the event of pipe Yes No $\square$ breakage or if the irrigator stops? If yes, what? What emergency provisions do you have for the discharge of effluent should your primary irrigation system fail? e.g gravity fed storage volume. **ASSESSMENT OF ENVIRONMENTAL EFFECTS** 3. 3.1 **Effects on Surface Water** Objectives 27 and 40 of the Regional Policy Statement and Policy 71, 72A and 76A of the Regional Resource Management Plan talk about the quality of surface water bodies and how this must be maintained to ensure they are suitable for sustaining or improving aquatic ecosystems. Additionally, Policy 48 of the Regional Policy Statement sets out guidance around buffer distances to ensure that surface water bodies will be protected from adverse effects from discharges. Please answer the following questions, showing how your proposed discharge will comply with these policies and objectives and will not adversely impact surface water bodies. Comment on the adverse effect the discharge may have on surface water.

How will adverse effects on surface water be mitigated?				
3.2 Effects on Groundwater				
Policies 17, 19 and 20 talk about the management of activities which may affect groundwater. Please answer the following questions, showing how you intend to manage your discharge in a way that will not adversely impact groundwater.				
Comment on the adverse effect the discharge may have on groundwater				
How will adverse effects on groundwater be mitigated?				
3.3 Effects on Soils				
Objective 38 and Policy 67 of the Regional Resource Management Plan talk about the sustainable management of the land resource so as to avoid compromising future use and water quality. This also sets out environmental guidelines for use of the land covering issues including appropriate land use, soil health and soil contamination. Please answer the questions below whilst considering how your activity will be undertaken in a way that will meet these objectives and policies.				
Comment on the adverse effect the discharge may have on soils				
How will adverse effects on soils be mitigated?				

#### 3.4 Effects on Residents or Users of the Area

Policy 8 and 69 and Objective 39 of the Regional Policy Statement talk about discharges of odour to air. These policies and objectives seek to maintain a standard of ambient and local air quality that is not detrimental to human health, amenity values or the life supporting capacity of air and sets out environmental guidelines in relation to this air quality. Please answer the following questions, showing how your activity will be managed so it is not contrary to these policies and objectives.

Comment on the adverse effects the discharge of odour and other airborne contaminants may have on nearby residents or users of the area.
How will adverse effects on nearby residents and users of the area be mitigated?
What alternative methods for discharging the effluent were considered?
Detail why the method of application is the best practicable option.
Please detail any other best management practices you propose to follow when managing your dairy effluent.
Please note any other information that may assist the Council in processing your application.

## 4. Consultation / Affected Parties

	e list the persons that you believe to hav proposal.	e an interest in or that may be af	fected
Name	Address	Postcode	Phone
	the consultation undertaken with any in see consulted. Attach correspondence if ap		e views
	tation undertaken and the information pro e adversely affected by the proposal.	vided is to aid the Council in dete	ermining
-			
Please not	re: Council may determine that your notification. This may be the case if eith approval from all those people who Council will determine which parties (if a provide you with a list of who those obtain their unconditional approval Resource Management Act (1991).	ner there are no affected parties or may be adversely affected is ol any) are considered to be affected people are. You will then be requ	r written btained. and will uired to

### 5. GENERAL INFORMATION

Wha	at consents are required from other authorities for th	e proposed activity?			
Non	e $\square$				
Con	sent Required	Authority	Applied for?		
				Yes □ No □	
				Yes □ No □	
	ise list all documentation (in addition to this formure that all documentation listed is included with you				
	Site Plans			Date	
	Storage Pond Calculation Summary Report			Date	
	Overseer® Nutrient Budget			Date	
	Other Documentation (e.g. letters, corresponder	 nce from affected parti	ies, a	dditional material	
Title			F	reparation Date	
 Plea	se remember it is mandatory to include the followin	g Included			
	accurate site plan				
	ertificate of title				
	r deposit				
	ppy of the Storage Pond Calculation Summary Repo	ort			
	ppy of the Nutrient Budget for the property				
	ninistration Form A				