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|  | **Part B:**  **Assessment of Environmental Effects**  **Discharge Animal Wastewater to Water** | |
|  | **This application is made under Section 88/Section 127 of the  Resource Management Act 1991** | |
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| To: Consents Department  Northland Regional Council  Private Bag 9021  Te Mai  Whangārei 0143 |  | Whangārei office: 09 470 1200  0800 002 004  Email: info@nrc.govt.nz  Website: www.nrc.govt.nz |

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| 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 farm wastewater to the environment (e.g. what happens to surrounding land, rivers, streams, lake, wetlands and groundwater). This will help you to propose ways to minimise those effects to the council’s satisfaction.  The degree of detail required is in proportion to the scale of the likely 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 neighbouring 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. |

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| A. | General Details |

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| **A.1** **Which Dairy Company do you supply?** |  |  |
| **What is your supply number?** |  |  |

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| **A.2 Which District is the property in?**  Kaipara  Far North  Whangārei |

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| **A.3** **Do you hold any other Northland Regional Council consents e.g. water take or pasture irrigation?**  No  Yes. Type of consent       Consent No. |

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| B. | Description of the Proposed Activity |

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| Discharge Details – Dairy Shed |
| **B.1 What is the maximum number of cows milked during winter?** |

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| **B.2 What is the maximum number of cows milked during summer?** |

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| **B.3 Over what period of the year do you milk?** *(please tick the relevant months)* | | | | | | | | | | | | |
|  | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sept** | **Oct** | **Nov** | **Dec** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Do you know the volume of water used at the dairy per day? | | | | | | | | | | | | |
| Is the dairy yard used for standoff during wet weather? | | | | | | | | | | | | |
| If so, how many days on average per year? | | | | | | | | | | | | |

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| **B.4 Are there any stormwater diversion systems in place at the yard, or the associated buildings to prevent clean water entering the treatment system?**  Yard  No  Yes *(describe)* |
| Roof Water Diverted from Buildings  No  Yes *(describe)* |

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| Discharge Details – Feed Pads/Stand-off Pads etc |
| **B.5 Are there any other sources of wastewater?** *(tick all the appropriate boxes below, if not proceed to B.7)*  Feed Pad  Calf Shed  Wintering Pad/Barn |
| Other *(please describe)* |
| What are the dimensions of the Feed Pad or Stand-off Pad? |

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| **B.6 If a Feed Pad or Stand-off pad is used on farm, which months on average is it used?**  *(please tick the relevant months)* | | | | | | | | | | | | | |
|  | **Feed Pad:** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sept** | **Oct** | **Nov** | **Dec** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| How many hours on average per day is the Feed Pad used? | | | | | | | | | | | | | |
| Is there a stormwater diversion system? | | | | | | | | | | | | | |
|  | **Stand-off Pad:** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sept** | **Oct** | **Nov** | **Dec** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| How many hours on average per day is the Stand-off pad used? | | | | | | | | | | | | | |
| Is there a stormwater diversion system? | | | | | | | | | | | | | |
| Is the Feed Pad or Stand-off Pad roofed?  Yes  No | | | | | | | | | | | | | |

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| Treatment System | | | | | | | | | | | | | |
| **B.7 What does your proposed treatment system consist of?**  *(please tick all the appropriate boxes and answer the associated questions)* | | | | | | | | | | | | | |
| Is there a solids separation system prior to the first pond?  Yes  No | | | | | | | | | | | | | |
| If Yes, please describe | | | | | | | | | | | | | |
| **Ponds** *(provide details of each pond)* | | | | | | | | | | | | | |
|  | |  | | **Length** | | **Width** | | **Depth** | | **Holding Capacity**  **(cubic metres)** | | | **Baffle at Outlet (Yes / No)** |
|  | | Pond 1 | |  | |  | |  | |  | | |  |
|  | | Pond 2 | |  | |  | |  | |  | | |  |
|  | | Pond 3 | |  | |  | |  | |  | | |  |
|  | | Pond 4 | |  | |  | |  | |  | | |  |
|  | | Pond 5 | |  | |  | |  | |  | | |  |
| Is a flow control structure installed on the outlet from the first pond?  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 | | |  | |  | |  | | |  | |
| What type of vegetation has been planted in the wetland? | | | | | | | | | | | | | |
| **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 | |  | | |  | |  | | |  | |  |

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| **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. |

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| **B.8 Are there any catchment stormwater diversions in place to prevent runoff into the treatment system?**  No |
| Yes *(describe)* |

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| The Disposal System | | | | | | |
| **B.9** Describe the type of water body which the wastewater is discharged into, and provide dimensions and estimated flow rates. | | | | | | |
|  | **Type of**  **Water Body** | **Length to Boundary** | **Width** | **Depth** | **Estimated Dry Weather Flow Rate**  **(litres/second)** |  |
|  | Farm Drain |  |  |  |  |  |
|  | Stream |  |  |  |  |  |
|  | Natural Wetland |  |  |  |  |  |
|  | Other *(specify)* |  |  |  |  |  |
| Describe the outfall into the surface water | | | | | | |
| Is the surface water body fenced and/or have planted (riparian) margins?  No | | | | | | |

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| **B.10 Do you also have a land application system?**  No  Yes |
| If Yes, how is the wastewater discharged?  Spray Irrigation – Type of Irrigator  Other *(describe)* |
| What is the size of the area available for land application of wastewater?        ha |

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| C. | Site Details |

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| **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 farm operation, including dairy shed, feed pad, entry/exit races, treatment system and any wastewater land application 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 wastewater leaves the farm boundary. |

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| D. | Assessment of Effects on the Environment |

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| D.1 Affected Parties  Does the proposed discharge have the potential to affect other people e.g. 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 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. |

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

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| D.2 Are there any of the following in the vicinity of the proposed discharge point? | | | |
|  |  | **Present** | |
|  |  | **Yes** | **No** |
|  | Obvious signs of known water life (e.g. eels, other fish, insects, plants)? |  |  |
|  | Areas where food is gathered (e.g. watercress, eels, wildfowl) |  |  |
|  | Natural wetlands |  |  |
|  | Recreational activities (e.g. swimming, fishing, canoeing) |  |  |
|  | Areas of special aesthetic value (e.g. waterfalls) |  |  |
|  | Areas of significance to Māori (iwi) |  |  |
| 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 (i.e. mitigate) these effects *(attach a separate sheet if necessary)*. | | | |

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| **D.3 Consultation** | | | |
|  | Have you discussed the proposal with any of the following potentially affected parties? | | |
|  |  | **Yes** | **No** |
|  | Neighbours |  |  |
|  | Other downstream water users |  |  |
|  | Neighbouring groundwater users |  |  |
|  | Department of Conservation *(if relevant)* |  |  |
|  | Fish and Game Council *(if relevant)* |  |  |
|  | Local iwi *(specify)*: |  |  |
|  | Other *(specify)*: |  |  |
|  | Please attach record of the consultation carried out. |  |  |

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| **D.4 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 a Duty Planner at the Northland Regional Council.***

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| **Whangārei office:** | 09 470 1200 |  | **Email:** | info@nrc.govt.nz |
| 0800 002 004 |  | **Website:** | www.nrc.govt.nz |