FarmIQ

Environment Plan

A sample Farm Environment Plan

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Farm details

Environment plan review date:	31/05/2020

Farm name:	FarmIQ	Address:	1234 Farm Road, Waikato
Farm identifier:	FARMSONLINE#	Farm size:	167ha
Legal description:	FarmIQ Systems Limited	Farm enterprises:	
Annual crops:	winter oats and kale	Permanent crops:	

Owner:	Alison Worth
Phone:	021 228 6299
Mobile:	
Email:	

Manager:	Alison Worth
Phone:	
Mobile:	
Email:	alison.worth@farmiq.co.nz

Primary person:	Alison Worth
Phone:	
Mobile:	
Email:	

Existing farm management policy
Dairy grazing and vasectomized bulls. Dairy heifer calves on at 100kg and off, in-calf as R2s. Peak stocking rate spring 16 su/ha. Pasture 40:60 rye clover mix. SU rate does not go above 16 su/ha.

High risk areas and management

This farm has approximately 10 hectares of steep sidelings and gullies which have been mapped. Stock have been excluded from these areas and they are in the process of being retired and planted in to mixed tree species. A small wetland is also undergoing stock exclusion.

Risk assessment

Soil types

Volcanic	100%

General

How would you describe the natural drainage of soils on your property?	Free-draining
Describe the artificial drainage on your property	Minimal artificial drainage
Is your farm located in a high rainfall area (>1500 mm/yr)?	Yes
How would a major climatic event (e.g. drought, flood, snowstorm, etc) impact the viability of the business?	A major event could impact on production and/or threaten infrastructure, but it would be rare and recovery would be quick.
Do cattle or deer make up 20% or more of total stock numbers?	Yes
Do you have any cultural, historic or pa sites on your farm?	No
What is your/your family objective/s for this farm business?	To be productive and profitable within the environmental capabilities of our land. Our son will be taking over the farm within the next ten years, so we would like to put a long-term plan in place that includes sustainability, profitability and the restoration/retirement of steep sidelings and gullies in to native and exotic trees. Increasing biodiversity and the aesthetics of the farm is important to us, however, we plan to achieve these actions without creating farm debt that could inhibit our Son's future progress.

Phosphorus risk

Do current Olsen-P levels exceed optimum levels on any part of the farm?	No
Do you practice conventional cultivation or intense strip grazing?	Yes
Is more than half of the farm rolling, hilly or steep?	Yes
Are dominant soils hydrophobic?	No
You have Medium risk of phosphorus loss	

Erosion risk

Visual evidence of erosion on farm	Is hard to find
The area of erosion is:	Only a very small area of the farm is affected
In the event of major erosion:	A major erosion event could impact on production and/or threaten infrastructure, but it would be rare and recovery would be quick
You have a Slight risk of erosion	

Risk assessment

Nitrogen risk

Is your farms stocking rate higher than 3 cows/ha?	No
Are N-fertilisers applied over winter or applied to pasture at rates exceeding 50kg N/ha/application or 150kg N/ha/year?	No
Do supplements make up a significant portion of total animal feed (more than 5%)?	No
Do you use or are you planning to use irrigation on your farm?	No
Is any winter cropping or a significant area of other cropping undertaken?	Yes
You have High risk of nitrogen loss	

Faecal bacteria risk

Do cattle or deer have direct access to waterways, streams, or drains?	Yes
Does runoff from tracks and yards go directly into waterways?	Yes
You have High risk of faecal bacteria	

Waste management

Are offal or rubbish pits located where there is a risk of contamination to surface or groundwater?	No
Is there any risk of loss of leachate from silage pits?	No
Is there any risk of runoff from silage pits?	No
Are empty chemical containers or unwanted chemicals recycled?	Yes
Is silage wrap recycled?	Yes
No risk has been identified with waste management.	

Effluent management

Is all effluent captured and applied to land?	
Are all areas where effluent is collected or stored sealed?	
Do you have an effluent storage facility that is sufficiently sized to allow storage of effluent when conditions are not suitable for application of effluent to land?	
Do you have high risk soils in your effluent application area?	
Are effluent application rates appropriate for the soil type effluent is being applied to?	
Does nitrogen loading from effluent exceed 150 kg N/ha/yr or 50 kg N/ha/day?	
Does water use in the dairy shed exceed 70L/cow/day?	

Risk assessment

Biodiversity management

Do stock have access to native bush blocks on your farm?	No
Do you have a regular pest animal control programme in place for possums , rats, mustelids, pigs and goats?	Yes
Do you undertake weed control on your property (in both pastoral and natural areas?)	Yes
Do you routinely drain wet areas?	No
Do you have hung/perched culverts (where the outlet is elevated above the downstream water surface)?	Yes
There are things you can improve on	

Chemical management

Are chemicals used on the property?	Yes
Is there a spray plan for the property?	Yes
Are chemicals stored in a suitable area?	Yes
Is there an appropriate mixing and wash out area that avoids any contamination of freshwater?	Yes
Are all unwanted chemicals and containers disposed of through Agrecovery or a similar service?	Yes
You have Low-risk chemical management.	

Overseer

Nutrient budget by : 2020 **Nutrient budget date: 31 May 20**

LMU/Block Name	Effective area	Total area	N loss to water	P loss to water
Cropping	15 ha	15 ha		
Total			23.0 kg/ha/yr	0.7 kg/ha/yr

Objectives

General management

NEW	Engage a regional council advisor/officer or similar specialist for advice	
ONGOING	Have a weather event (e.g. flood, drought etc) management plan in place	
COMPLETED	Intensive grazing is conducted on suitable land where good practices can be followed	

Nutrient management

NEW	Use direct drill or minimum tillage to protect soil structure and minimise N loss.	
ONGOING	Use slow release P-fertiliser (e.g. RPR) where appropriate.	
ONGOING	Maintain Olsen-P at or below optimum levels.	
COMPLETED	Avoid super-phosphate application when heavy rainfall is forecast.	
COMPLETED	Avoid winter applications of nitrogen-based fertilisers (unless soil temperatures are adequate and soils are not saturated).	
COMPLETED	Reduce weight of stock on at-risk country (e.g. replacing cattle with sheep or moving to a younger stock class of cattle).	

Soil and erosion management *- No objectives set*

Offal pits, silage pits and waste disposal

COMPLETED	Seal or move offal pit to a low risk location (at least 50m from a waterway)	

Biodiversity

NEW	Retire and fence permanently wet area at bottom of gully.	
ONGOING	planting mixed species trees for biodiversity.	
COMPLETED	Planted 5 ha of manuka in gully for bees and biodiversity	

Actions to enhance or support recreational use of your waterbodies, and/or traditional gathering of kai (e.g. fishing, eeling or kayaking)?	Known native lizards, frogs, bats or invertebrates (e.g. weta, snails) on your property

Objectives

Weed and pest management

NEW	Traps out for mustelids	
ONGOING	Annual control programme on-farm for general farm weeds (e.g. thistles, dock, hieracium, gorse)	Repeats yearly every 1 year for 5 times
ONGOING	Spot-spray or remove general farm weeds (e.g. thistles)	
COMPLETED	Neighbour come and shoot hares. We shoot possums. Bait out for rats.	

Weed species that require management on-farm	Pest species that require management on-farm
Gorse. Thistle. Ragwort. Tobacco weed	Hares. Rabbits. Possums. Rats. Mustelids

Water and energy efficiency *- No objectives set*

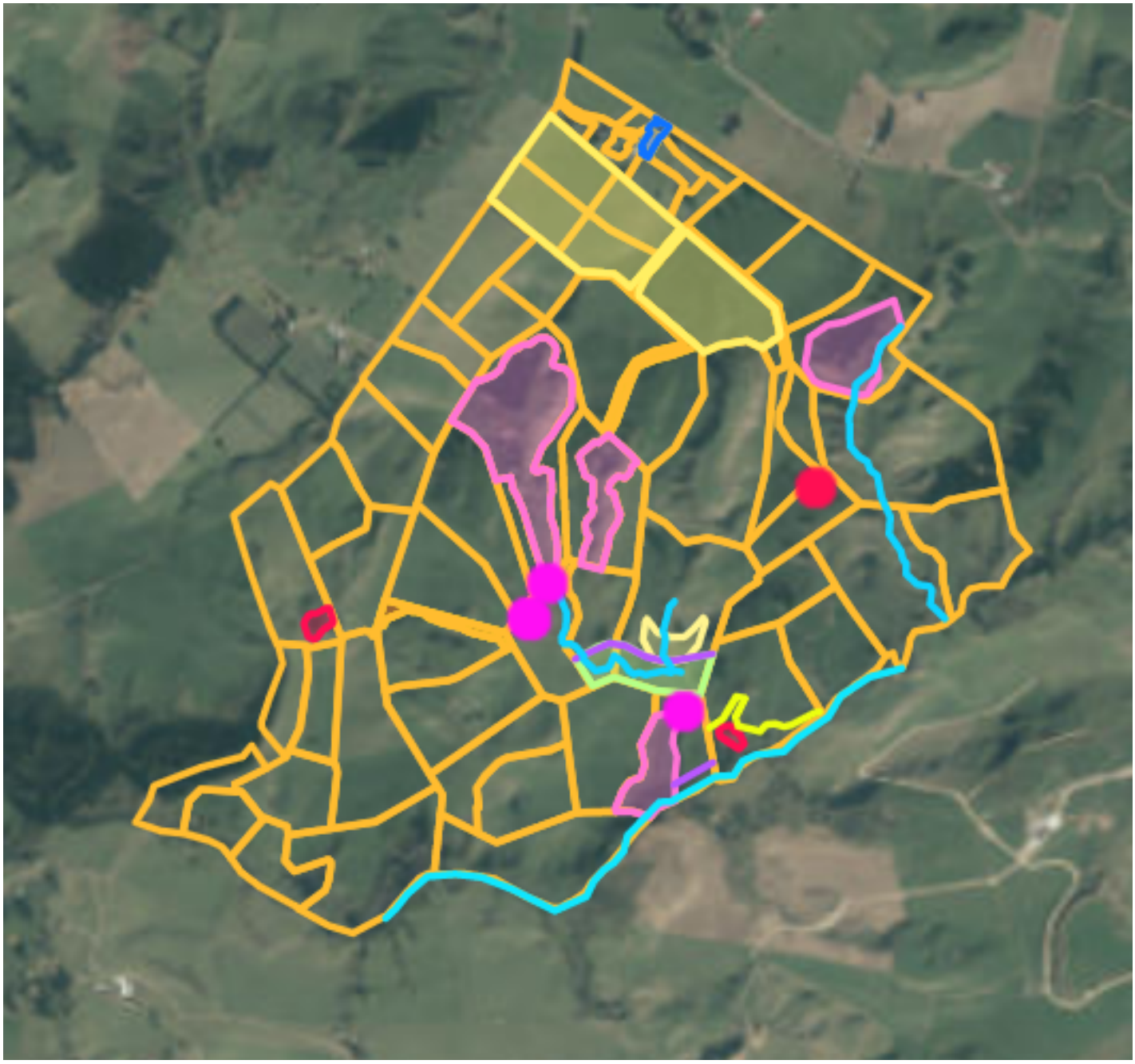
Effluent management *- No objectives set*

Chemical management *- No objectives set*

Waterway and wetland management

NEW	Fence off wetland and plant out with carex species.	Due between 31 May 2020 and 31 May 2025

FEP - All features



Non productive areas

- Race (1.6ha)
- Stock yard (0.1ha)

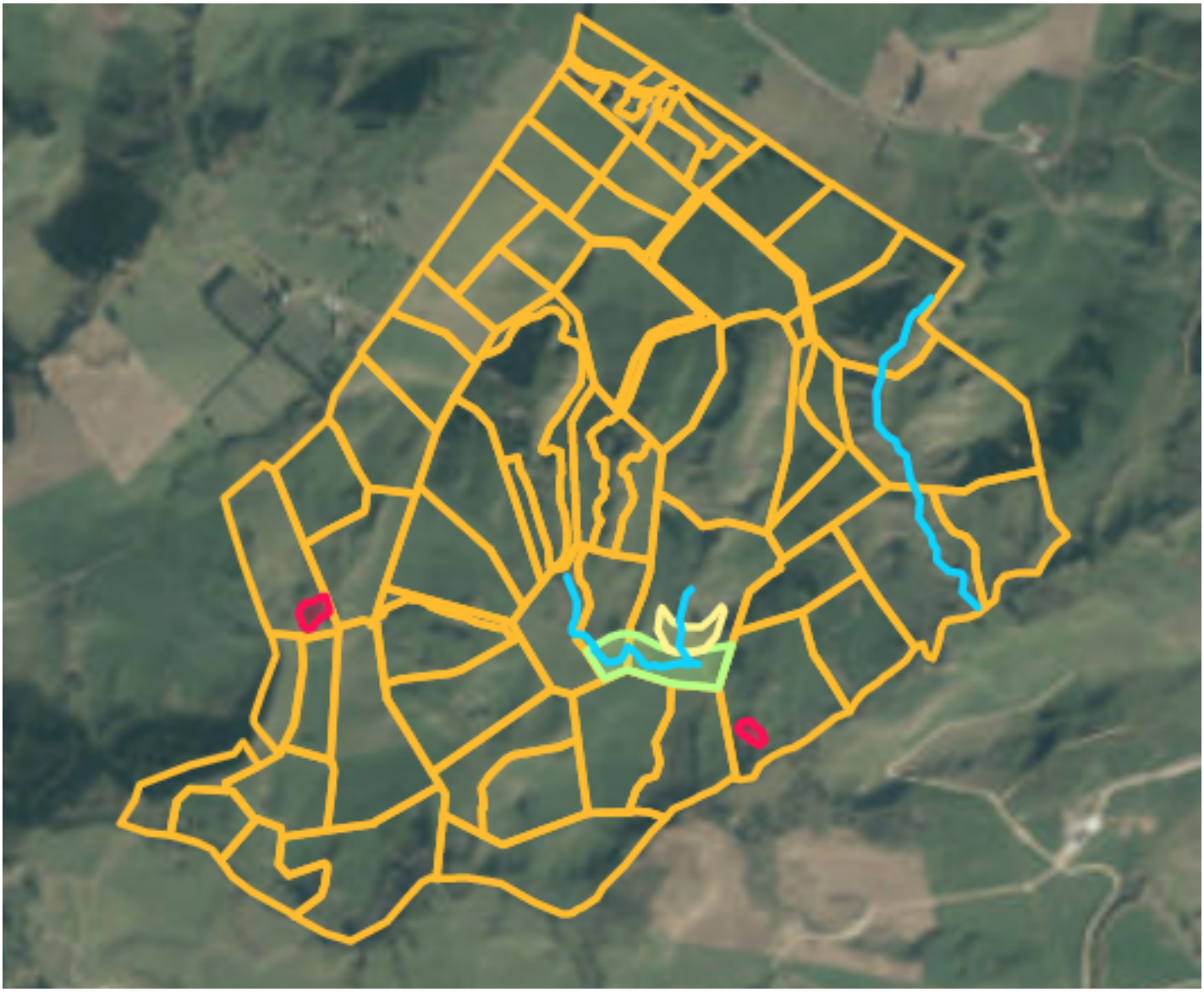
Features

- New Fencing Planned (382.3m)
- Permanent Waterways (1291.6m)
- Planned stock exclusion fencing (344.4m)
- Rivers (1278.5m)
- Culvert (4)
- Offal & Rubbish Pit (1)
- Blocks Retired for Revegetation (10.4ha)
- Cropping Blocks (10.5ha)
- Pond (0.3ha)
- Sediment Bund/ Trap (0.6ha)
- Wetland (1.7ha)
- Yards and Pens (0.2ha)

0 m 500 m

 Farm - Total: 168.19 ha, Effective: 158.97 ha, Cultivatable: 146.76 ha

Waterbodies



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