FARM ENVIRONMENT PLAN TEMPLATE

Mahere Tātauira Taiao Ahuwhenua







PROPERTY DETAILS

Farm trading name (if applicable) S Farmer Enterprises S. Farmer Healthy Rivers Farm Identifier Office use only CONTACT DETAILS FOR OWNER(S) Postal address 123 Rural Road, Hamilton NZ Phone 0275555554 Email address 123 Rural Road, Hamilton NZ CONTACT DETAILS OF PERSON RESPONSIBLE FOR THE FARM (IF DIFFERENT FROM FARM OWNER) Postal address 123 Rural Road, Hamilton NZ Phone 0275555554 Email Samjfarmer@aol.co.nz PROPERTY OWNER (IF DIFFERENT FROM ABOVE OWNERS) Property address 123 Rural Road, Hamilton NZ Valuation reference ¹ 012345/678/10		
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Property address 123 Rural Road, Hamilton NZ		
Valuation reference ¹ 012345/638/10		
V123737 V707 TV	012345/678/10	
Legal description(s) of land parcels1 Lot 1 DPS 000 Sec 0A Blk I AB Hamilton	Lot 1 DPS 000 Sec OA BIK I AB Hamilton	
Total area (ha) 140 ha	140 ha	
Effective area (ha) 130 ha	130 ha	
Land use activities Dairy farming		
Other relevant property identifier, dairy supply number, farm IQ SNR0001		
HEALTHY RIVERS/WAI ORA		
Freshwater Management Unit ² (entral FMV		
Sub-catchment name ² Waikato at Bridge St Br		
Sub-catchment priority ² 3		
CERTIFIED FARM ENVIRONMENT PLANNER		
Name Archie (olins		
Contact details 0215555545		
Identifier/certification reference Office use only		
Sign-off		
Date		

¹ Obtainable from Waikato Regional Council or district council rates documentation.

² Not sure which sub-catchment you're in? Visit waikatoregion.govt.nz and click on Find My Farm.

FARM MAP

Use the map(s) to identify the location of the property, its features and uses, existing infrastructure (including fences and mitigations), relevant contaminant loss risks areas, and the location of proposed actions.

Finalise the aerial plan of the property and include all relevant features listed below.

Farm maps can be requested from Waikato Regional Council.

MAP FEATURE CHECK LIST

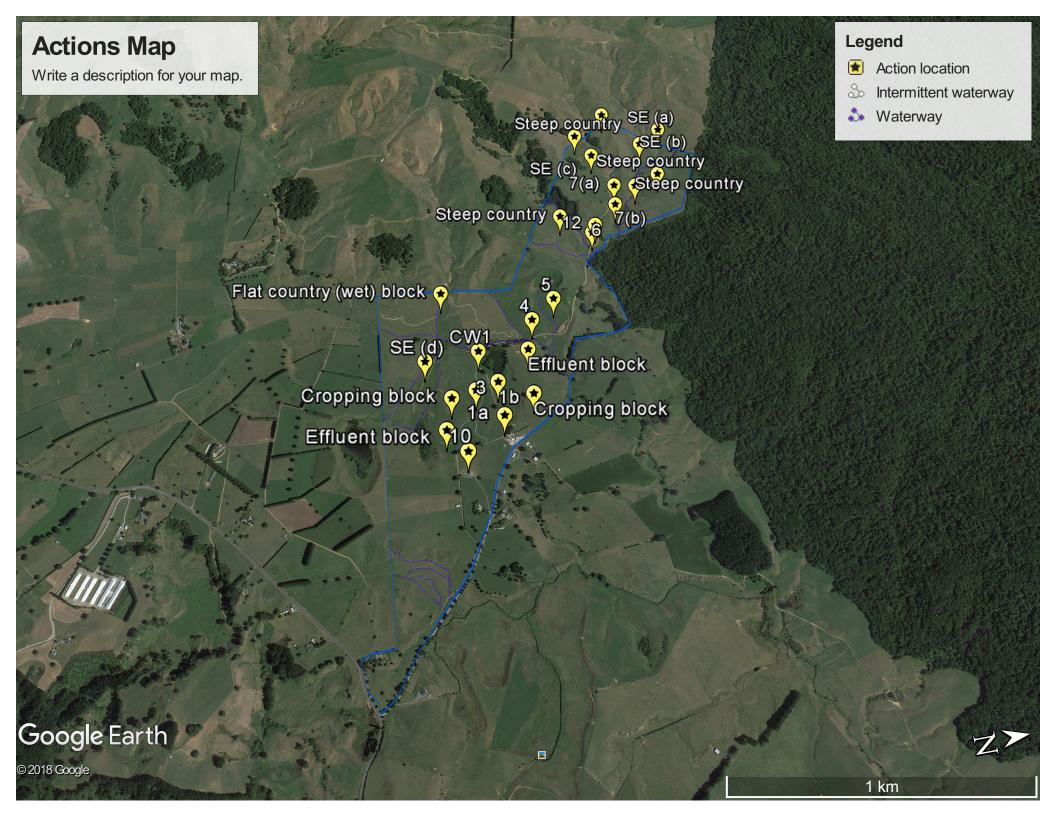
Where relevant, the farm map must clearly show:

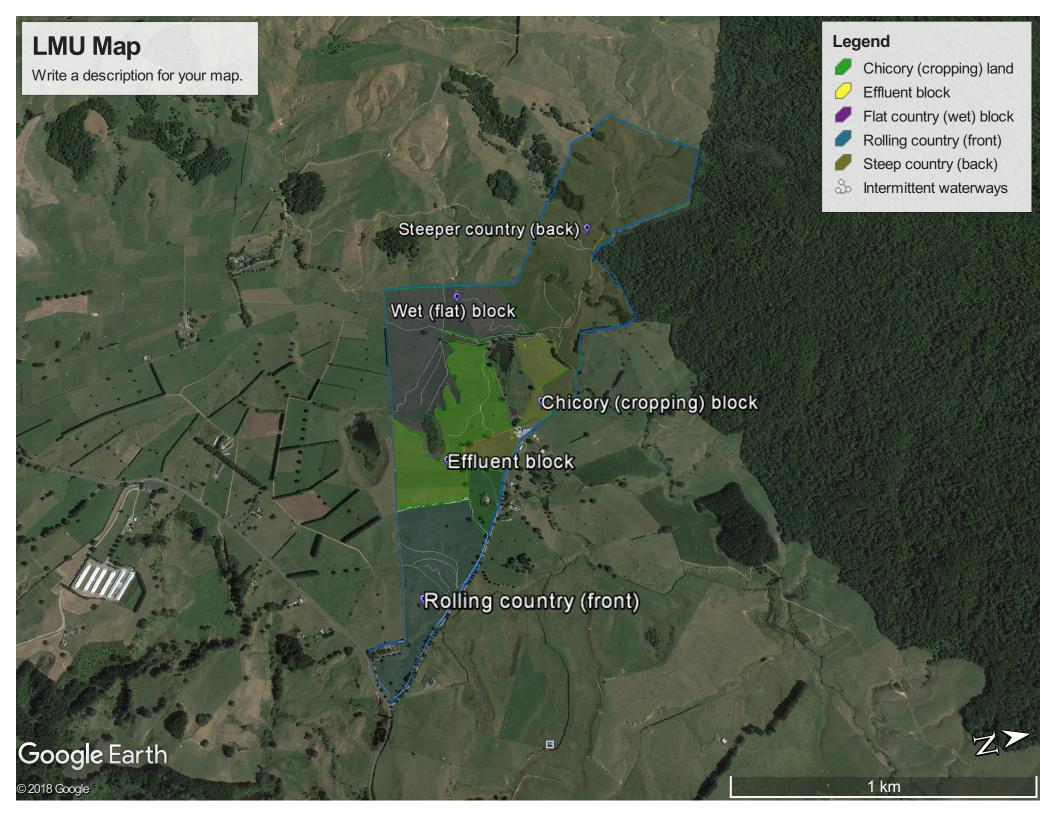
Area, property boundary	Yards, animal holding areas ¹
Mitigation actions (existing and future)	Actively eroding areas ¹
Overland flow paths ¹ /ephemeral waterways	Effluent application areas ¹
✓ Location land uses²	Cultivated area flow paths
Retired forestry areas	Effluent accumulation areas ¹
✓ Paddocks	✓ Areas prone to flooding¹
QE II or other covenanted areas	Feed out areas ¹
Soil types	Dams
Cultivation setbacks	Stock crossing structures (existing and future)
Slope classes	✓ Waterbodies³
Erosion prone areas ¹	Existing fences adjacent to waterbodies ³
Riparian areas	Cultivated land above 15 degrees
Soil conservation areas	✓ Tracks and races

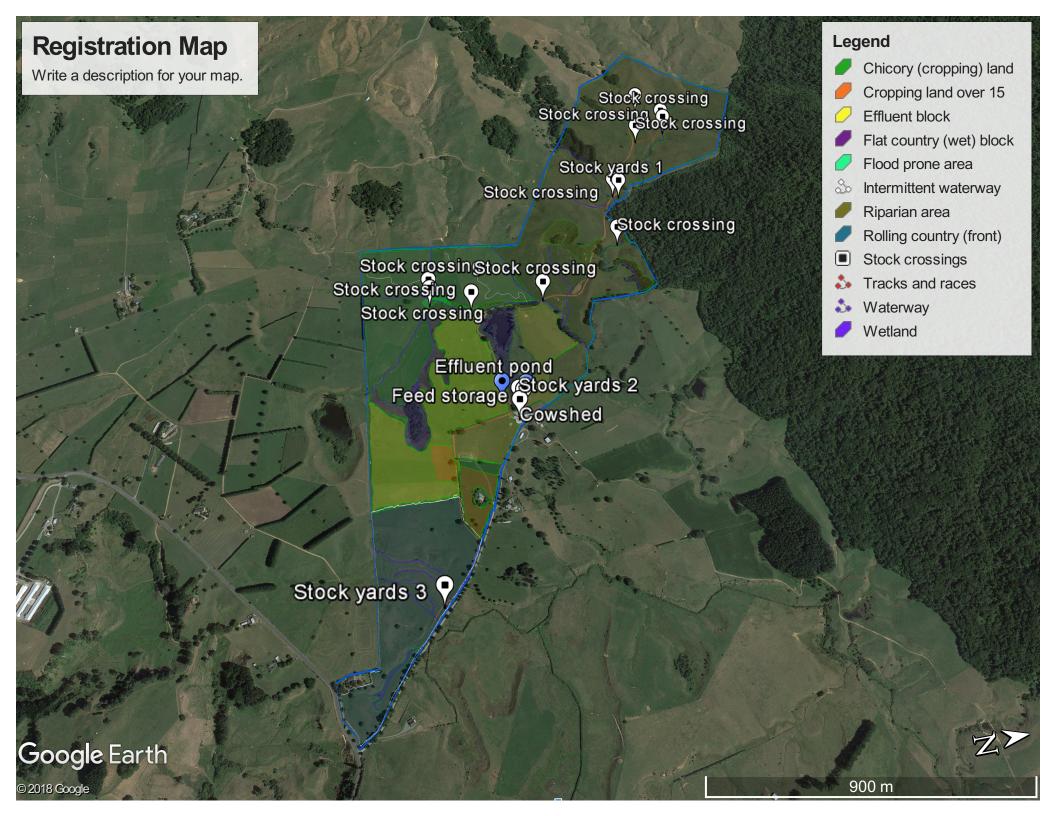
¹ Critical source areas

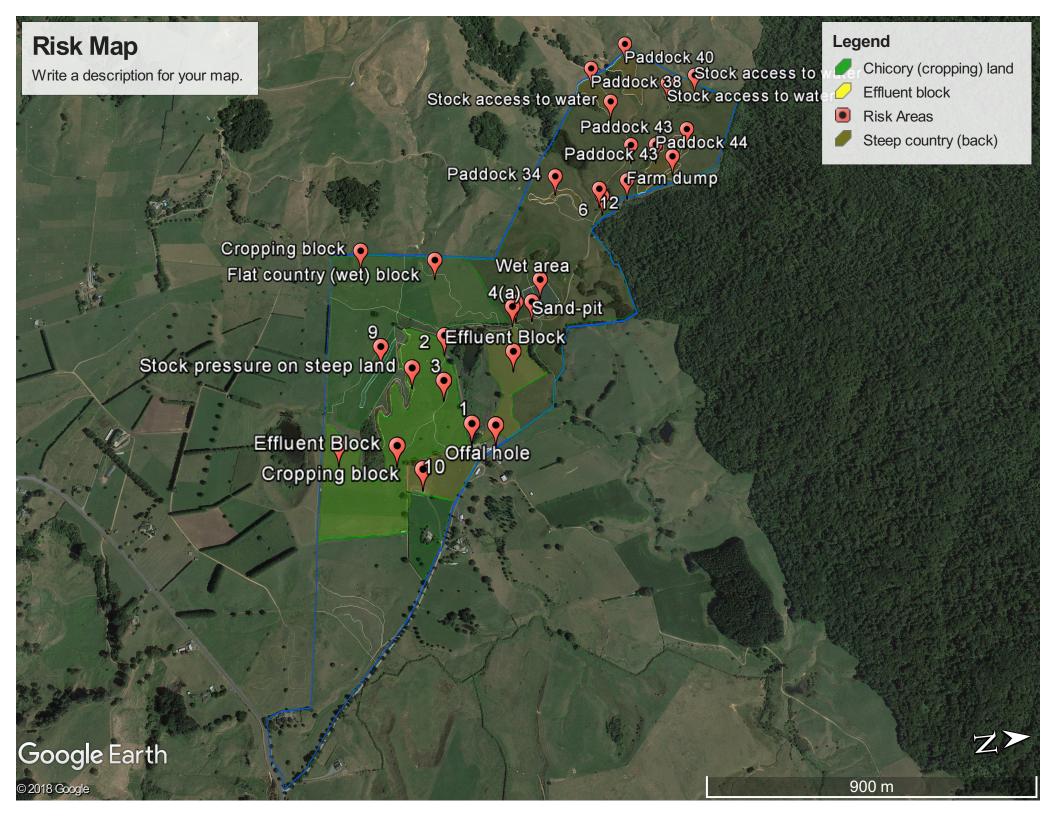
² This may be in the form of Overseer Blocks, or Land Management Units

 $^{^{\}rm 3}$ Any river, drain or wetland that continually contains surface water









FARM STORY (OPTIONAL)

Use this section is to help tell the story of your property. What is the history of the property? What are your goals? It also can be used to note of some of the work that has already been carried out that you are proud of and want others to know about.

TELL US ABOUT YOUR PROPERTY. INCLUDE:

History

Interesting features

Potential goals

Any concerns/worries

3rd generation farm. Brought in separate pieces and currently spread across 3 titles. Backs onto Te Tapui scenic reserve.

Would like to increase productivity of the farm whilst reducing the environmental output from the property. Further improvements to on-farm biodiversity.

Improve production from specific paddocks on the property (paddocks 17 & 28).

Management of steep land is a concern. Does it produce enough for it to be viable to farm off?

TELL US ABOUT THE WORK YOU HAVE ALREADY DONE. INCLUDE:

Work you have done to protect infrastructure

Work you have done to improve stock health

Work you have already done which has protected or improved water quality

Work you have done to improve biodiversity

95% of all waterways on-farm are fenced.

Extensive planting of riparian areas and wetland areas (25,000 plants so far).

Starting to use poplar poles on steep country and considering reversion/permanent retirement in some areas.

New effluent pond and stand-off pad constructed (2018).

Noticeable increase in birdlife around farm and at home.

Projects going forward include more wetland restoration and improvement of mai mai's on duck pond.

•

It's a good idea to take photos to show changes over time. This can be used to support decision making.

WHOLE FARM RISK OVERVIEW

In this section, consider your entire farm to determine risk factors that apply to it as a whole. These whole farm risks will be used to guide decision making in the Farm Environment Plan Risks and Actions section on page 10.

CATCHMENT NUTRIENT PRIORITIES

Consider the sub-catchment nutrient priorities in your sub-catchment when identifying risks and actions.

You can find this information in the FEP Guidelines. (Circle one or more)

Nitrogen

Phosphorus

Sediment

Bacteria¹

FARM SYSTEM AND INTENSITY

Description of farm system and intensity, including fertiliser and supplementary feed inputs.

Description of cultivation, cropping and pasture renewal practices.

N, P, sediment and bacteria.

Identified risks

Dairy farming running 3 cows/ha across 130ha effective.

Protein based imported feed.

Full cultivation of paddocks for chicory.

Drilling of cultivated paddocks for re-grassing.

Sediment and phosphorus from steeper country are of concern when heavy animals are grazing. Heavy animals cause pasture cover loss and soil loss on steep areas.

SOIL TYPE	ТОРОБАРНУ	CLIMATE
Description of how soil type and land use contributes to risk of contaminant loss.	Description of how topography and land use contribute to risk of contaminant loss.	Description of climate, drought and frequency of flood events, and how this may influence the risk of contaminant loss.
Identified risks	Identified risks	Identified risks
Allophanics Prone to erosion - sediment loss Free-draining Gley Remain wet for long periods Get pugged when excessively grazed	Rolling front of farm Some wetter flat areas Steep back of farm	1700mm of rain Occasional heavy rain events (an dry-out in summer Prevailing wind is NE
sediment loss		

¹ Microbial pathogens

FARM BLOCK DESCRIPTION LMU STRENGTH AND WEAKNESS ASSESSMENT

Farm or OVERSEER blocks, or Land Management Units (LMUs), are areas of land that can be farmed or managed in a similar way because of underlying physical similarities. For each block or LMU, complete a strength and weakness risk assessment. Add more blocks as required. Use this assessment to inform changes that will maintain and improve the soil and minimise contaminant loss.

If the block is an effluent application block or an irrigated block, complete descriptions of these systems on the next page.

LAND MANAGEMENT UNIT

Name (as shown on map)

Effluent Block

Description, uses and management

Block of 30ha that effluent is spread on. Mostly low risk soil with some slope in places.

STRENGTHS AND WEAKNESSES:

Strengths

Rolling to flat tops Good access to races All hydranted Well-draining Weaknesses

Wet bottomed in winter (ephemeral flows) Some ephemeral waterbodies Some steeper sidlings

NOTES AND MITIGATION IDEAS

Low-rate effluent application will be most suitable. Set exclusion zones for effluent application. Store effluent when conditions are not suitable for application.

LAND MANAGEMENT UNIT

Name (as shown on map)

(hicory (cropping) Block

Description, uses and management

Block of 40ha, which chicory has been grown on, or other crops might be grown in the future.

Rotating across identified block in 8-12ha lots.

Helps with re-grassing strategy.

STRENGTHS AND WEAKNESSES:

Strengths

Various topography
(flat, quite steep).
Various soil types
(allophanic tops- gley
bottoms).
Ability to spread liquid
effluent in places.
Few waterways in
blocks.

Weaknesses

Some areas are too steep for cropping.
Anything too steep to drive a tractor should not be sprayed.

NOTES AND MITIGATION IDEAS

Investigate using direct drill or strip tillage of crops.

Investigate mixed sward rather than spray every time.

other potential crops (plantain, etc).

LAND MANAGEMENT UNIT

Name (as shown on map)

Rolling country (front)

Description, uses and management

Dairy rotation across all of the block. Some areas are cultivated. (lose to road frontage.

STRENGTHS AND WEAKNESSES:

Strengths

All waterways are fenced.
Well drained across most of the block.
North facing slopes grow well in the cooler months.

Weaknesses

over-grazing an issue in some areas.

Warmer slopes can increase stop camping when cooler.

Pugging in wetter areas- particularly on gley soils.

NOTES AND MITIGATION IDEAS

Wet bottoms of gullys can trap animals at times. Important to ensure stock exclusion is secure. Particularly along drains. Parts of rolling country is used for cropping. Cultivate away from waterways.

LAND MANAGEMENT UNIT

Name (as shown on map)

Steep country (back)

Description, uses and management

Young stock (under 1 year old) can be grazed at times. Part of dairy rotation.

STRENGTHS AND WEAKNESSES:

Strenaths

Allows for more extensive grazing due to size of paddocks. North facing slopes useful in cooler months.

Most streams are fenced and planted. Close to native bush reserve.

Weaknesses

Erosion prone.
Stock pressure can lead
to tracking/terracing
across hill slopes.
Some unfenced
waterways and
particularly wetlands.
Areas near bush remain
wet and shaded all
winter.

NOTES AND MITIGATION IDEAS

Grazing of heavy stock during winter needs to be monitored and not for long periods of time.

Some areas require pole planting.

LAND MANAGEMENT UNIT LAND MANAGEMENT UNIT Name (as shown on map) Name (as shown on map) Wet (flat) block Description, uses and management Description, uses and management Wetter area of the farm that is part of dairy rotation. Also used for cropping at times. STRENGTHS AND WEAKNESSES: STRENGTHS AND WEAKNESSES: Weaknesses Strengths Weaknesses Strengths Intermittent Soil retains moisture longer in the summer waterways are months. prevalent. Mushrooms grow well. Gley soils take a long time to drain. All waterways are fenced. Pugging damage can cause productivity issues going forward. NOTES & MITIGATION IDEAS **NOTES & MITIGATION IDEAS** Grazing needs to be monitored during winter months. Ensure fertiliser applications occur when soil temperatures are above 9 degrees and when NOT water logged.

(ultivation needs to ensure buffers around intermittent waterways and where possible use low tillage methods and when NOT water logged.

INFRASTRUCTURE MANAGEMENT

Use this section to consider how effluent and freshwater irrigation is managed on your farm. Any risks identified should be added to the Farm Environment Plan Risks and Actions section on page 10.

EFFLUENT SYSTEM	FRESHWATER IRRIGATION
POND VOLUME	AREA IRRIGATED (HA)
4,000 cubic metres	N/A
POND SEALING EVIDENCE	TYPE OF IRRIGATOR
Liner	N/A
DAIRY YARD EFFLUENT CONTAINMENT	WATER SOURCE
Yes	N/A
WOOLSHED EFFLUENT CONTAINMENT	WAIKATO REGIONAL COUNIL CONSENT
N/A	N/A
STOCK YARD EFFLUENT CONTAINMENT	WATER METER
No	N/A
STANDOFF PAD/WINTERING BARN OR ANIMAL HOUSING	APPLICATION DEPTH AND UNIFORMITY
Yes	N/A
STABLES OR YEARLING BOXES	METHOD(S) OF SCHEDULING AND CALCULATING IRRIGATION REQUIREMENTS
N/A	
SOLIDS OR SLUDGE STORAGE, SEPARATION AND	N/A
APPLICATION Yes	OTHER INFORMATION
763	
EFFLUENT APPLICATION MANAGEMENT, IRRIGATOR TYPE	N/A
Regular maintenance and measure application depth	
IRRIGATION RATE, SCHEDULING	
N/A	

30ha

EFFLUENT IRRIGATION AREA (HA)

NUTRIENT MANAGEMENT

You can work with a Certified Farm Nutrient Advisor (CFNA) to get an OVERSEER nutrient budget and Nitrogen Reference Point. Consider your nutrient management plan, specifically focusing on N and P, and what actions will be needed.

If appropriate, risks and actions should be added to the Risks and Actions table on page 10.

NITROGEN MANAGEMENT

	KG N/HA/YR
What is the 75th percentile of nitrogen leaching for the FMU?	N/A
Nitrogen Reference Point	N/A
Current Nitrogen leaching	36kgN/ha/yr

Changes to system, if needed¹

System has been assessed with the inclusion of the stand-off pad. New assessment suggests decrease of up to 6kgN/ha/yr from this addition to the farm system.

Potential increases in stock numbers could increase the leaching levels and seriously threaten the wetter soils. Try to increase maize silage being fed during 'at-risk' periods to reduce N in urine patches.

Predicted Nitrogen leaching²

31kgN/ha/yr

PHOSPHORUS MANAGEMENT

BLOCK	OLSEN P TEST	AGRONOMIC OPTIMUM	ACTIONS
Rolling country	32	20-30	None
Effluent block	67	20-30	Sub-maintenance P-fert application
(hicory	63	20-30	Sub-maintenance P-fert application
Wet block	24	20-30	None
Steep block	29	20-30	None

¹ Changes to system are needed if the NRP is above the 75th percentile value. Please summarise the actions necessary to achieve reductions to the 75th percentile value by 1 July 2026.

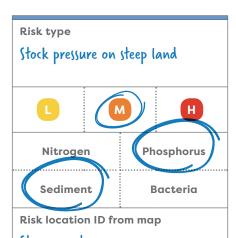
² Nitrogen leaching value anticipated once actions¹ have been completed.

AGE 10

FARM ENVIRONMENT PLAN RISKS AND ACTIONS

These tables identify all the risks on farm and what will be done to manage them. For help with good management practices/ideas for mitigations, please refer to the Farm Environment Plan Guide.

Note: some risks may have no actions, single actions or multiple actions (and vice-versa). Where multiple actions are needed, please complete a new table. Where no action is required, an explanation should be provided in the notes/commentary section.



Steep country

Mitigation action type

Stock management

Mitigation location ID from map Steep country

Action detail

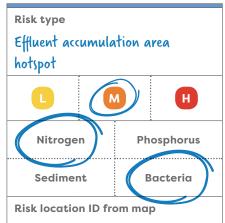
Between 1 Jun and 30 Aug of each year, any cattle grazed must be less than 12 months in age or under 200kg live-weight (whichever is less restrictive).

Time frame for completion or ongoing
Ongoing from 1 Jun 2020

Notes/commentary

Stocking pressure increasing risk of soil loss and mass movement. Stocking rate not specified, but management is expected to not increase the risk of soil

Note: area may be used for grazing sheep at any time.



Mitigation action type

Race cut-off shape/contour tracks & races

Mitigation location ID from map

1a and 1b

Action detail

Main race cambered towards the left hand side and construct a minimum of 3 cut-off diversions at no less than 15m spacing and no closer than 15m from culvert.

Time frame for completion or ongoing
By 1 Jan 2021

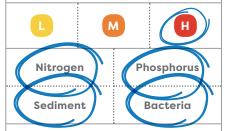
Notes/commentary

Left hand side of race is the same side as effluent pond and the existing culvert represents the low point along the race. Photo reference (Effluent accumulation area)

Farmer (onsiderations:

- a) Using any appropriate management options to minimise effluent build-up from stationary cows;
- b) Retirement of swale: Fencing and planting.

Risk type Intermittent waterway or flood prone area



Risk location ID from map

2

Mitigation action type
(onstruct wetland/detainment

Mitigation location ID from map (W1

Action detail

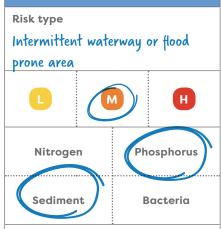
Retire area of no less than 300m² and permanently exclude stock with a minimum setback of 1m.

Time frame for completion or ongoing By 1 Mar 2024

Notes/commentary

Intermittent waterways may also be considered Ephemeral waterways. These areas will be identified in the FEP map. Farmer (onsiderations:

a) (onsult with WR(or an appropriately qualified professional regarding the sourcing and types of plants to be used and wetland design to maximise effectiveness. Photo reference (Wetland opportunity 2)



Risk location ID from map 3

Mitigation action type
(ultivation Buffer Strip

Mitigation location ID from map

Action detail

Where cultivation is used to establish a crop, within the length of the intermittent waterway maintain a vegetative strip of at least 2m in width.

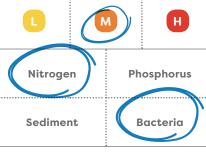
Time frame for completion or ongoing Ongoing from 1 Sep 2020

Notes/commentary

(ultivation does not include notillage practices such as direct drilling. Vegetative strip may be grass, but cannot be bare soil. Farmer (onsiderations:

- a) Use of minimum tillage practices to minimise sediment loss.
- b) (onsider the need for the grass buffer strip when spraying out pasture





Risk location ID from map
Effluent Block

Mitigation action type
Low-rate application

Mitigation location ID from map Effluent Block, 3(a)

Action detail

Install a low-rate effluent application system and at all times maintain a buffer distance of 10m from ephemeral waterways.

Time frame for completion or ongoing

by 1 Nov 2025

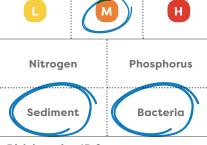
Notes/commentary

Low-rate system considered to be that which can achieve an application rate of less than 5mm per application.
Intermittent waterways or flood prone areas are those identified in the FEP

Farmer (onsiderations:

a) Staff should be appropriately trained to minimise mismanagement of effluent system.

Risk type Stock (rossing



Risk location ID from map

Mitigation action type
(ut-off detainment

Mitigation location ID from map α

Action detail

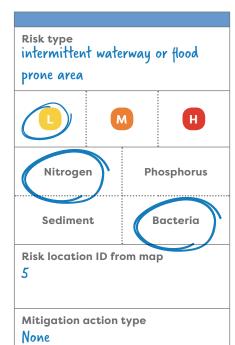
(onstruct a cut-off diversion on either side of stock crossing, no closer than 5m to stock crossing point

Time frame for completion or ongoing

by 1 Jan 2020

Notes/commentary

Any additional cut-off diversions should be at spacing's of no less than 15m.



Mitigation location ID from map

Action detail

No action required.

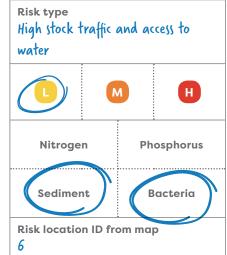
Time frame for completion or ongoing N/A

Notes/commentary

(atchment size is small and upper part of catchment has been placed in permanent vegetation, contributing to reduced risk to low. Paddock not currently used for cropping.

Farmer (onsiderations:

a) Manage stock to minimise use of paddock when wet to reduce direct contaminant discharges from stock presence in wet areas



Mitigation action type Stock Exclusion

Mitigation location ID from map

Action detail

Fence along length of race to prevent stock access.

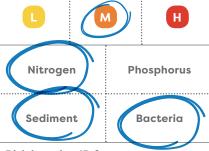
Time frame for completion or ongoing By 1 Jan 2020

Notes/commentary

Farmer (onsiderations:

- a) Fence will be approximately 60m long and may contain an access gate to continue use for storage of material
- b) Planting applicable areas once retired, permanent fencing should be considered to prevent stock access to any plants.

Risk type intermittent waterway or flood prone area



Risk location ID from map

Mitigation action type Stock Exclusion (7a), stock crossing structure (7(b)

Mitigation location ID from map 7 a and 76

Action detail

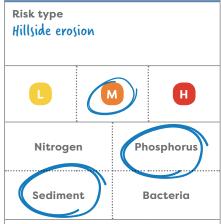
Install stock exclusion along both sides of intermittent waterway to prevent stock access, and install a stock crossing structure.

Time frame for completion or ongoing By 1 Jan 2019

Notes/commentary Setback from intermittent waterway not specified, appropriate distance up to land owner but should generally not be less than 1m. Photo reference ((ows and Stream (unfenced) Stock crossing structure expected to be a culvert. Installation and design not to be inconsistent with relevant Waikato Regional Plan Permitted Activity rule requirements.

Farmer (onsiderations:

a) Planting any applicable areas once retired, permanent fencing should be considered to prevent stock access to any plants.



Risk location ID from map Steep (ountry

Mitigation action type Pole Planting

Mitigation location ID from map Paddocks: 34, 38, 40, 42, and 44

Action detail

Plant at least:

- a) 15 poles in each of paddocks 38, 40, and 42; and
- b) 20 poles in each of paddocks 34 and 44.

Time frame for completion or ongoing

- a) By 1 Jan 2025
- b) By 1 Jan 2026

Notes/commentary

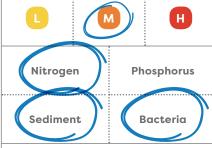
Risk of soil loss and mass movement.

Note: Poles should generally be planted at 15m spacing. Poor pole placement may increase risks associated with stock camps.

Farmer (onsiderations:

- a) (ontact WR(to discuss availability of poles (including potential funding for any additional poles) and any advice regarding placement of poles to maximise effectiveness.
- b) Shifting the location of stock troughs
 where they are in overland flow
 paths to reduce the impact of stock
 camping

Risk type intermittent waterway or flood prone area



Risk location ID from map

Mitigation action type Improved drainage (9a), constructed wetland (9(b)

Mitigation location ID from map 9(b)

Action detail

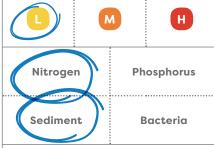
 a) Install stock exclusion along both sides of intermittent waterway with a minimum setback of 1m from the bed.

Time frame for completion or ongoing

By 1 Jan 2022

Notes/commentary

Stock exclusion does not exclude the use of temporary fencing. Photo Reference (Ephemeral drain in poorly drain paddock) Risk type Feed Storage



Risk location ID from map 10

Mitigation action type No Action

Mitigation location ID from map 10

Action detail

No action required

Time frame for completion or ongoing N/A

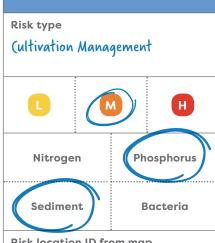
Notes/commentary

Low risk due to current location and management practices. (hanges in storage location may increase risk, this may result in the need to review the FEP. Photo reference (Maize feed storage uncovered)

Farmer (onsideration:

a) (onsider a purpose built maize storage area.

Need more space? You can find more Risk and Actions tables at waikatoregion.govt.nz/healthyrivers.



Risk location ID from map (ropping block

Mitigation action type (ultivation Setback

Mitigation location ID from map (ropping block

Action detail

Where cultivation occurs, a setback vegetative of at least 5m from the bed of any waterbodies must be maintained at all times.

Where a winter crop is to be grazed insitu during the months of 1 Jun to 30 Aug, the following minimum vegetative setbacks at crop establishment are to be maintained at all times:

- a) 10m to the bed of any waterbodies: and
- b) 1m from all intermittent waterways or flood prone areas;

Time frame for completion or ongoing
Ongoing from 1 September 2020

Notes/commentary

Note: Setbacks may be greater than that specified. Waterbodies includes permanently flowing waterways and wetlands (including constructed wetlands). Intermittent waterways and flood prone are those identified in the FEP map.

Winter cropping excludes the establishment of pasture.

Vegetative strip may be grass, but cannot be bare soil.

Risk type (ultivation Management L M H Nitrogen Phosphorus Sediment Bacteria

Risk location ID from map (ropping block

Mitigation action type Grazing Management

Mitigation location ID from map (ropping block

Action detail

At all times where crops are grazed in-situ by stock, strip graze towards waterbodies and intermittent waterways.

Time frame for completion or ongoing Ongoing from 1 September 2020

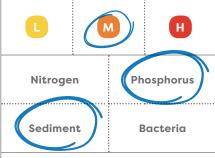
Notes/commentary

Note: Waterbodies includes permanently flowing waterways and wetlands (including constructed wetlands). Intermittent waterways and flood prone are those identified in the FEP map.

Farmer (onsiderations:

 a) Providing pasture areas for stock to use, particularly around water troughs. These will provide relief areas for stock to use;





Risk location ID from map (ropping block

Mitigation action type
(ultivation Management

Mitigation location ID from map (ropping Block Areas >15°, 11a, 11b, and 11c

Action detail

(ultivation will be avoided on all slopes over 15 degrees with the exception of the following locations where minimum tillage practices are used and the crop is not to be used for in-situ grazing between 1 Jun and 30 Aug:

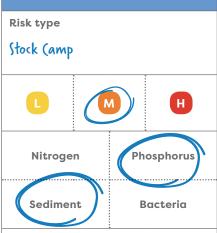
- 1) 11a;
- b) 11b; and
- c) 11c

Time frame for completion or ongoing Ongoing from 1 September 2020

Notes/commentary

Areas 11a-c are of low risk due to their proximity to surface water.

Note: Winter cropping does not include the establishment and grazing of pasture species.



Risk location ID from map 12

Mitigation action type Stock management

Mitigation location ID from map Back stock yards

Action detail

No feeding out to stock within 30m of stock entry point or waterway.

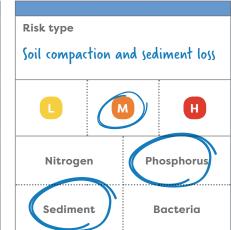
Time frame for completion or ongoing
By 1 Mar 2024

Notes/commentary

Stock camping at entry point to paddock beside stream increases contaminant loss risk. Managing the feeding out of stock away from waterbody helps to reduce risk

Farmer (onsiderations:

- Manage stock movement in and out of paddock by using alternative entry point to help reduce stock impact on soil.
- Move paddock entry 15m further along race



Risk location ID from map Flat (ountry (wet) block

Mitigation action type Stock management

Mitigation location ID from map Flat (ountry (wet) block

Action detail

When grazing between 1 Jun and 30 Aug of each year, on-off grazing practices are to be undertaken and grazing on pasture shall not exceed 8 hours at a time.

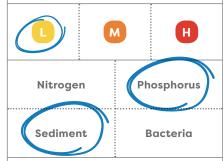
Time frame for completion or ongoing ongoing from 1 Jun 2019

Notes/commentary

off-grazing is the removal of cows from pasture grazing, this will involve the use of the farm standoff pad (constructed as at May 2018). Generally, on-grazing will not exceed 6 hours at a time. Photo Reference (Ephemeral drains- Wet Area)
Farmer (onsiderations:

 Consider increasing the use of the stand-off pad for other management blocks where needed to minimise pasture damage; Risk type

Stock access to waterways



Risk location ID from map Stock exclusion required

Mitigation action type Stock Exclusion and retirement of land

Mitigation location ID from map SE(a) & SE(b)

Action detail

Exclude stock from retired areas. Stock exclusion setback will be no less than of 3m from the bed of the waterbody.

Time frame for completion or ongoing SE(a) by 1 Sep 2023 and SE(b) by 1 Sep 2024...

Notes/commentary
Setback is expected to generally
be greater than 3m. Distance
from the edge of the bed to stock
exclusion is measured horizontally.
Farmer (onsiderations:

- a) If planting retired area, consider the use of adequate permanent stock exclusion;
- b) Contact WRC to discuss funding for above and beyond work and any advice regarding plants and pest control.

YOUR PLAN OF ACTIONS (OPTIONAL)

It may be helpful to summarise the actions in the Farm Environment Plan Risks and Actions table, particularly by due date.

	LOCATION (MAP REFERENCE)	ACTION DETAIL	TIME FRAME FOR COMPLETION OR IMPLEMENTATION OF ONGOING ACTIONS
REQUIRED ACTIONS	1	(amber race towards LH side and construct 3 cut-off diversion no closer than 15m apart	1 Jan 2021
	2	Construct wetland of no less than 300sqm and permanently exclude stock with 1m setback	1 March 2024
	3	Maintain a vegetative strip of at least 2m width along length of ephemeral when cropping	ongoing
	4	Install low rate effluent application system and maintain 10m exclusion from ephemeral channel	1 Nov 2025
	6	Fence along length of race to prevent stock access	1 Jan 2020
	7 a & b	Install permanent stock exclusion along ephemera and install stock crossing	1 Jan 2019
	Paddocks 34, 38, 40, 43 and 44	Plant 15 poles in each paddock 38, 40 and 43. Plant 20 poles in each paddocks 34 and 44	1 Jan 2025, 1 Jan 2026
	Steep (ountry	Graze only cattle less than 200kg live- weight or less than 12 months between 1 Jun and 30 Aug	Ongoing from 1 Jun 2020
	9	Install stock exclusion along both sides of intermittent waterway with a minimum setback of 1m from bed of waterway	1 Jan 2022

	LOCATION (MAP REFERENCE)	ACTION DETAIL	TIME FRAME FOR COMPLETION OR IMPLEMENTATION OF ONGOING ACTIONS
REQUIRED ACTIONS	(ropping block	Vegetative setback at least 5m from bed of waterbodies to be maintained at all times. Winter crops require setback of 10m from waterbodies and 1m from intermittent waterbodies or flood prone areas.	ongoing from September 2020
	(ropping block	Strip graze towards waterbodies and intermittent waterways	ongoing 1 September 2020
	(ropping block	No cultivation on all slopes over 15 degrees except those ID'd as low risk (see maps) when minimum tillage is used. Not to be grazed in-situ between 1 Jun and 30 Aug	ongoing from 1 September 2020
	12	No feeding out to stock within 30m of stock entry point or waterway	1 March 2024
	Flat country (wet) block	on-off grazing to be undertaken when grazing pasture between 1 Jun and 30 Aug and grazing on pasture shall not exceed 8 hours at a time	1 Jun 2029
	Stock Exclusion	Exclude stock from retired areas. Stock exclusion setback will be no less than 3m from bed of waterbody	SE (a) 1 September 2023 SE (b) 1 September 2024 SE (c) 1 September 2025 SE (d) 1 September 2025

This table will identify work that farmers may wish to do that goes above expectations for regulation. It will not be considered when assessing the completeness of the FEP. These actions may be used to support applications for funding from Waikato Regional Council or other organisations.

	LOCATION (MAP REFERENCE)	ACTION DETAIL	TIME FRAME FOR COMPLETION OR IMPLEMENTATION OF ONGOING ACTIONS
	2	Plant wetland using native plants to enhance to uptake of nutrients and improve biodiversity	1 March 2024
	6	Plant unproductive area with mixed native plants to extend and enhance the native bush reserve boundary	1 Jan 2021
	Paddocks 34, 38, 40, 43 and 44	Increase minimum poplar poles across these paddocks to a increase total number across the 5 paddocks to a total of 125 poles	All complete by 1 Jan 2026
ENHANCEMENTS	12	Move the paddock entrance 10m up the race to reduce the pressure near waterway	
	Stock Exclusion	All areas to be planted with appropriate native vegetation after stock exclusion has taken place.	1 September 2026 at the latest.

CHECKLIST

Use this checklist to ensure you have completed all necessary assessments in the FEP.

- Nitrogen Reference Point assessment
- ✓ Stock exclusion assessment
- Riparian management assessment
- ✓ Cultivation management assessment
- Critical source area assessment







Wetland Opportunity 2

Ephemeral Waterway (Risk 7)

Wet area







Landscape (steeper country (back) block)

Stand-off pad

Wetland opportunity 1 (Risk 2)







Wet paddock (Risk 9)

Effluent accumulation (Risk 1)

Effluent accumulation (Risk 1)







Effluent pond

Feed storage (Risk 10)

Wet race behind duck-pond

Landscape (steeper country (back) block)	

This information has been provided based on Waikato Regional Council's interpretation of the proposed plan. The proposed plan is at the early stages of the Schedule 1 process and the provisions are therefore likely to be subject to further change through that process. While Waikato Regional Council has exercised all reasonable skill and care in providing this information, council accepts no liability in contract, tort or otherwise, for any loss, damage, injury or expense (whether direct, indirect or consequential) arising out of the provision of this information or its use by you or any other party. Should you have specific concerns regarding the proposed provisions, we encourage you to make a submission and/or seek your own legal advice.

HE TAIAO MAURIORA

HEALTHY ENVIRONMENT

HE ŌHANGA PAKARI

STRONG ECONOMY

HE HAPORI HIHIRI

VIBRANT COMMUNITIES



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