Submitter Details

Submitter No. S5

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Notes

Number of uploaded docs 1

Submission Points

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Reporting Topic Submission Point Plan section Provision Support/Oppose Reasons Decision Requested Mapping Scope Scope recommendation

No Data

+ ADD SUBMISSION POINT

Raw uploaded submission points

This table contains raw submission point data that has been uploaded from the Council's online submission form. These submission points need to be transferred into Spoken by adding them as submission points using the 'Add submission point' form below or clicking on 'upload directly'. Once the raw uploaded submission has been added into Spoken, please confirm by selecting 'yes' in the 'uploaded into Spoken' field. Submission points that have not been 'lodged' are able to be edited by the submitter until either they have finalised and lodged their submission or after the submission closing date, so consider not summarising those points early.

Raw sub point	Plan section	Provision	Support/oppose	Decision sought	Reasons	Entered into Spoken	Upload directly
S5.1	3 Objectives	Objective O19: Biodiversity, aquatic ecosystem health and mahinga kai in fresh water bodies and the coastal marine area are safeguarded.	Amend	(c) restoration of aquatic ecosystem health and mahinga kai is encouraged with appropriate support from central and regional government.	Without clear support, both advisory and financial, encouragement needs something to make it happen. The Te Awarua-o-Porirua Whaitua committee were clear that there are greater benefits to "carrots rather than sticks"	No	upload
S5.2	6 Other methods	Method M36: Freshwater Action Plan programme.	Support	Retain as notified	It is important that the requirement is retained for Wellington Regional Council to develop Freshwater Action Plans that are informed by engagement with rural landowners as significant stakeholders. To date much of the plan has been developed through modelling rather than based on actual data so it is essential when	No	upload

developing
Freshwater Action
Plans that WRC's
methods of
assessment are
appropriate, sound
and accurate.
Reliable data should
come before action
plans and the data
collection needs to
be at a much smallei
scale than even parts
of Freshwater
Management Units.
Ideally the data
collection should be
at a smaller
subcatchment scale
or, in the case of
larger farms, at an
individual farm scale

S5.3 6 Other Method M40: Support Retain as notified Current information No upload... methods Fish passage on fish passage action plan within Te Awarua-oprogramme Porirua whaitua, for Whaitua based on NIWA's Te Fish passage Whanganui-a-Assessment Tool, Tara and Te contains many Awarua-oinaccuracies, which Porirua need to be identified Whaitua. and recorded accurately before a programme of fish passage remediation will be fully successful. S5.4 6 Other Amend to read In order to address Method M41: Support No upload... methods Identifying Wellington Regional degradation of Council will identify freshwater bodies it responding to degradation of freshwater is important to work degradation bodies within Whaitua Te at a subcatchment in freshwater Whanganui-a-Tara and Te level in order to a) bodies within Awarua-o-Porirua Whaitua have accurate data Whaitua Te at a sub-catchment scale and sound methods Whanganui-abased on accurate data of quantifying the Tara and Te using recognised degradation and b) Awarua-oassessment tools. This implement actions Porirua programme will, at least that target the Whaitua. once every five years, specific causes of publish information degradation identifying degrading trends for waterbodies. Any such analysis may be part of a plan effectiveness or action plan review or part of any other process. S5.5 6 Other Method M44: Support Retain as notified It is essential that any No upload... methods Supporting programmes to be the health of implemented rural support rural waterbodies. landowners in a variety of ways as identified. Whilst there maybe direct benefits to rural

> landowners associated with some of the actions

specified within the Plan Change predominantly the benefits are to others, human and nonhuman - for example, those that use the receiving environment for mahinga kai and/or recreation and the various species that inhabit the freshwater and coastal environments. The costs associated with the actions, for example, retirement of land, fencing and planting are largely borne by the landowner. The provision of appropriate supports help to redress this

					imbalance.		
S5.6	9 Te Awarua-o- Porirua Whaitua	Objective P.O2: Te Awarua-o- Porirua's groundwater, rivers, lakes and natural wetlands, and their margins are on a trajectory of measurable improvement towards wai ora.	Amend	Amend to better define what is meant by "a more natural level"	l agree that there have been unacceptably large loads of sediment entering the harbour associated with both human activity, such as developments and roading, and natural events such as flooding. However "a more natural level" needs either a different definition or some way of quantifying what this might be.	No	upload
S5.7	9 Te Awarua-o- Porirua Whaitua	Policy P.P20: Managing diffuse discharges of nutrients and Escherichia coli from farming activities.	Oppose	Delete or change the policy to reflect the current accurately measured attribute states and the complementary actions that will retain or improve these.	Across the FMUs within the rural land many of the attribute states are within naturally occurring limits and/or in the case of E.coli due to a variety of sources, not just pastoral farming. It is unclear a) how these attributes will be measured at an individual property level and then b) how woody vegetation on the highest erosion risk land will change these.	No	upload
S5.8	9 Te Awarua-o- Porirua Whaitua	Policy P.P21: Capping, minimising and reducing diffuse discharges of	Amend	(ii) the nitrogen discharge risk is minimised by the adoption of good management practices, and by the phasing out of any	The Natural Resources Plan provides a definition of good management practice which	No	upload

nitrogen from farming activities.

poor management practices, and

includes that it "evolves over time and results in continuous improvement as new information, technology and awareness of particular issues are developed and disseminated." The adoption of good management practices therefore provides for "poor management practices" (which are not defined by the NRP) to be "phased out" making this part of the statement unnecessary.

No

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9 Te Awarua-o-Porirua Whaitua Policy P.P22: Achieving reductions in sediment discharges from farming activities on land with high risk of erosion. Amend

Change wording Achieving reductions in sediment discharges from farming activities on land with high sediment loss risk of

Addressing sediment loss from rural land is a key focus within the Plan Change and changing the wording clearly links to this. Erosion risk is usually associated in people's minds with landslides such as seen on the East Coast and parts of Wairarapa rather than the more subtle sediment loss from land in this whaitua.

1) The mapping

needs to be accurate

uplo

S5.10

S5.9

9 Te Awarua-o-Porirua Whaitua Policy P.P22: Achieving reductions in sediment discharges from farming activities on land with high risk of erosion. Amend

Reduce discharges of sediment from farming activities on high and highest erosion risk land by: (a) identifying highest erosion risk land (pasture) and high erosion risk land (pasture) used for pastoral farming, and (b) requiring that farm environment plans prepared for farms with highest erosion risk land (pasture) and/or highest erosion risk land (pasture) include an erosion risk treatment plan, and (c) ensuring erosion risk treatment plans: (i) deliver permanent woody vegetation cover on at least 50% of any highest erosion risk land (pasture) that is in pasture on a farm within 10 years, and appropriate treatment for the highest erosion risk land (pasture) that is in pasture on the farm, and (ii) identify and respond to risks of sediment loss on high erosion risk land (pasture) associated with grazing

livestock, earthworks or

at a farm scale for identifying the areas where there are the highest and high risks of sediment loss 2) The methods chosen to address this sediment loss need to be much more suited to the individual farms and even to areas within a farm. From personal experience, there are areas where it has not been possible to successfully establish woody vegetation due to soil type, soil depth, exposed ridgelines etc. If these are the areas that are most at risk

of sediment loss then

alternate methods need to be available

and supported, for

example, sediment

3) The effectiveness

No

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vegetation clearance, by using effective erosion control treatment by 30 June 2040, and (d) Wellington Regional Council providing support to landowners to implement erosion risk treatment plans.

in achieving a reduction in sediment loss should be linked to reaching attribute states rather than a specific time frame. The degradation of freshwater has happened over more than a century and the path to rectifying this should involve measurable outcomes in freshwater health. not a timeline to one treatment method that may, or may not, deliver.

implementation,
- include as
determined in
partnership with
mana whenua,
preparation at
different scales (e.g.
part Freshwater
Management Units,
whole Freshwater
Management Units

S5.11 9 Te Policy P.P24: Amend Consider if there are Is subdivision into No upload... Awarua-o-Managing small blocks a land "perverse outcomes" when Porirua rural land use managing rural land use use change? If the Whaitua constraints placed on change. change farming become too onerous one option is to subdivide to smaller blocks. As noted in the Section 32 report, there is a tendency for stocking rates to be higher on smaller blocks so does this become a perverse outcome? S5.12 9 Te Rule P.R26: Support Retain as notified Whilst the number of No upload... Awarua-o-Farming farms within the Porirua activities on whaitua is small by Whaitua 20 hectares or New Zealand more of land standards, they - permitted contribute to the activity. diversity, landscape and amenity values of Porirua City and the greater Wellington area. It is therefore important that farming in this whaitua has continued support. S5.14 12 B Freshwater Retain as notified It is essential that any No Support upload... Schedules Action Plan plans in particular, requirements. - support the inclusion of nonregulatory actions, - follow and promote best practice in planning and

or smaller subcatchments) at the scale most useful to implementing actions and meeting the needs of mana whenua and the affected community, - ground-truth the state and trends of attributes, as appropriate, to identify and prioritise necessary actions and - recognise the value and necessity of integrated management planning and delivery.

to establish fit for purpose information on the relative sources of nitrogen to freshwater,

necessary actions and - recognise the value and necessity of integrated management planning and delivery. S5.15 **B3** Necessary Retain as notified especially For the objectives No 12 Support upload... Schedules actions. (ii) Providing planning, and policies of the financial and logistical Plan Change, including Freshwater support for revegetation Action Plans, to be and best practice sediment management on private successfully land. implemented it is essential that private land owners are given the necessary support including planning, financial and logistical support S5.15 12 D Freshwater Support Retain as notified Especially support No upload... Schedules **Action Plans** 3. reflecting the in Te Awaruadirection and o-Porirua recommendations of Whaitua Te Awarua-o-Porirua Whaitua Implementation Programme and associated Te Awarua-oPorirua Whaitua Implementation Programme 2019: Ngāti Toa Rangatira Statement, and 4. Integrating other actions such as under the fish passage action plan Method M40, and 5. Delivering the following further action: (a) Undertake nitrogen source studies in Taupō, Pouewe and Takapū part Freshwater Management Units

including from gorse, small-block (<20 hectare) land holding activities and discharges from on-site domestic wastewater treatment systems.

S5.16 12 Schedules

Schedule 36: Amend
Additional
requirements
for Farm
Environment
Plans in
Whaitua Te
Whanganui-aTara and Te
Awarua-oPorirua
Whaitua.

Management objectives

In addition to the management objectives described in Part B of Schedule Z, the

farm environment plan must demonstrate that the appropriate and practicable erosion control treatment measures are adopted to

address the identified sediment loss risks will result in the revegetation of highest erosion risk

land (pasture), and treatment to address erosion risks on other land including

high erosion risk land (pasture), with at least 50% of highest erosion risk land

(pasture), being revegetated by 30 December 2033, and the remaining highest

risk erosion land (pasture) being revegetated by 30 December 2040, unless this

is not reasonably practicable, and a certifier certifies that alternative

control treatment over the balance of the property will result in the same a level

of soil loss avoidance and that these are measurable at a farm-scale and consistent with achieving the target attribute states for the part FMU. Table D1 sets out a variety of factors that

variety of factors that mean that sediment loss will be greater or lesser both within a property and across properties but there does not appear to be the same level of variation in the method that has been chosen to address sediment loss.

As identified in Table D1, under Sediment Transport Risk there are a number of specific risk factors. The focus on a single solution, that is, woody vegetation, takes no account of these different risk factors and the fact that they may be better addressed through other methods. There are significant issues to be considered when looking at how sediment loss might be managed

including
- the reliability of mapping

- the practicalities of addressing the highest erosion risk land areas when these are not contiguous

- the fact that any fencing off of high/highest erosion risk areas when trying to establish vegetation will also include land that is of a lesser risk - the fact that vegetation will not

- the fact that vegetation will not establish on some of the identified land - what are the outcomes wanted and will a "one rule solution" meet these or lead to perverse outcomes e.g. will fertiliser use increase

to improve

No

upload...

productivity on remaining land leading potentially to increased nutrient levels instead.

S5.17

12 Schedules E Erosion Risk Treatment Plan.

Amend

Amend to remove Section 1) A programme to ensure that 50% of the total area of any highest erosion risk land (pasture) on the property is in permanent woody vegetation within 10 years of the farm environment plan being certified, where permanent woody vegetation: (a) can reasonably be expected to reach canopy cover of at least 80% per hectare within 10 years of being established, and (b) is not plantation forestry, and (c) subject to meeting (a) and (b) above, may include appropriate planted species or species that may naturally regenerate. 2. A programme of mitigations to ensure that the management of sediment loss from highest and high erosion risk land (pasture) meets the following management goals: 3. A programme of mitigations to ensure that the management of sediment loss from **highest and** high erosion risk land (pasture) meets the following management goals: (a) Goal 1 - The effects of stock grazing on sediment loss are minimised by managing grazing density and stock types/weights (particularly during winter months) to reflect the increased risk on highest and high erosion risk land (pasture). (b) Goal 2 - The risk of sediment loss from critical source areas is minimised through identification of these areas, management of vegetation in and around these areas, stock grazing practices, and location and use of farm infrastructure. (c) Goal 3 - Land has appropriate soil conservation treatment to provide effective erosion control. (d) Goal 4 - The risk of sediment loss as a result of any earthworks permitted by the regional plan is minimised, including by compliance with Rules WH.R22/P.R20. (e) Goal 5 -The risk of sediment loss as

The same flexibility in

solutions should be

applied to highest

erosion risk land as

to high erosion risk

land. The difference

level of outcomes

meet the attribute states within the

expected in order to

treatment measures

implemented and/or

the implementation

of more measures in

expected outcomes.

order to meet the

should be in a higher

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a result of any vegetation clearance is not increased from associated land surface disturbance, and appropriate vegetation is established on the area as soon as practicable following any vegetation clearance. 4. A description of how the benefits of erosion control treatments will be maintained over time including by: (a) Restricting stock access to ensure effective establishment and protection of the woody vegetation required by 1 above or **other** mitigations implemented in accordance with 2 above, and (b) Implementing an animal and/or plant pest management programme.

S5.18

13 Maps

Map 90: Highest and high erosion risk land (Pasture) – Te Awarua-o-Porirua.

Oppose

Delete the map

No

upload...

be based on slope maps without taking into account other sediment transport risk factors. These other factors, such as soil type, geology and climate, also have a bearing on the amount of sediment lost from the land. This may be less or more depending on the combination of these factors. The information provided in the map, using pixels each equal to 5m2 does not lead to any meaningful relationship to actions that can be taken to address sediment loss on land considered highest erosion risk land.

The map appears to

Submission to Plan Change 1 - Supporting document

Diane Strugnell

Background information

I farm a 267 hectare block of land within the Takapū Freshwater Management Unit of Te Awarua-o-Porirua. Some of the tributaries of the Pāuatahanui Stream start on the farm which is on some of the steeper land in the upper catchment. We purchased the farm in 1997 and have been working since that time to improve the farm in many ways, not just from a farming perspective – productivity and infrastructure - but also considering freshwater and biodiversity aspects.

From 2014-2019 I was a Committee member on Te Awarua-o-Porirua Whaitua Committee. During that time I liaised with rural landowners across the catchment areas, sharing information on the whaitua process between the Committee and the community. I fully believed in the value of the whaitua process and stand behind the recommendations made in the Te Awarua-o-Porirua Whaitua Implementation Programme (WIP).

I have been a participant in the large rural landowners group for Porirua and a rural voice on Porirua City Council's District Plan Reference Group in 2017-18. I am a committee member of the Pāuatahanui Residents Association which represents landowners and residents in the rural areas of Porirua City. In 2021 I initiated the Pāuatahanui Freshwater Catchment Community and since 2022 have been involved in Porirua City Council's freshwater monitoring programme.

I believe that my participation in all these activities demonstrates my commitment to the intent of Plan Change 1. However I have concerns regarding the changes in emphasis between the recommendations contained in the WIP and the direction the policies and rules have taken within the Plan Change as notified.

Within the WIP the recommendations referencing a regulatory approach, that is Recommendations 59 and 63, placed an emphasis on accurate farm-scale mapping and data to support the regulations. The Whaitua Committee, I believe, was firmly of the view that the preferred approach was a non-regulatory one with a focus on flexibility to achieve the desired outcomes, as demonstrated by WIP Recommendations 58, 60, 61 and 64. This approach would enable the policies and rules to be based on good data, identifying effective solutions and working on a scale that would be achievable within such a small farming community.

The Farm

The farm sits on a ridgeline within the upper Te Awarua-o-Porirua catchment. The lower parts of the farm are at 100m above sea level, rising to 380 metres above sea level. The ridgelines, part of what was a peneplain extending out to Mana Island, are rocky and exposed to significant winds from all directions especially the prevailing north-westerly but also winds from the south and north.

Earlier last century, as in many parts of New Zealand, the farm was developed through mass clearance of vegetation with little regard for anything other than trying to maximise the grazing area. This is shown in the following image, an aerial photo taken in 1942 and accessed through Retrolens.

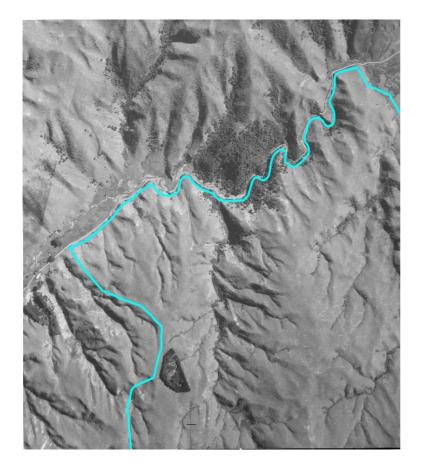


Image of part of the farm shown in a 1942 aerial photograph. The blue line follows the northern boundary along Moonshine Road. Source: Retrolens

When we purchased the farm in 1997, much of the property was still grazed intensively. Since then however we have been making farming decisions that have "softened our footprint" on the land, reducing sediment loss and increasing biodiversity.



Part of farm showing approximately the same area as the 1942 aerial photograph and illustrating the increased vegetation cover.
Source: Greater Wellington GIS

Farm Environment Planning

Since 2016 I have been working with Greater Wellington's Land Management Team (now the Environmental Restoration Team), including having a Farm Environment Plan since 2017.

The activities that have been undertaken to meet the goals within the Farm Environment Plan include

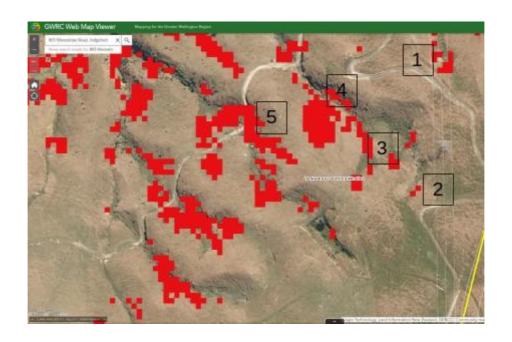
- Mapping of the farm using LUC and land slope maps to identify and prioritise actions including those to address freshwater health
- Improving the water reticulation to create a more reliable stock water supply, reducing the need for stock to access water from streams. This has included the installation of two 20,000 litre tanks to feed troughs across the farm, installing more troughs and increasing the capacity of the dam that supplies stock water
- Pole planting in gullies with stream bank erosion to help reduce run off and stabilise banks
- Fencing off two wetland areas where water leaves the property and planting these with native vegetation
- Identifying Critical source areas, that is areas on the farm where there is an increased risk of sediment loss, for example, near the cattle yards. Actions have included fencing these off with the addition of planting such as flax
- Installing sediment traps and debris dams to slow the rate of run off during high rainfall events, helping to reduce stream bank erosion
- Allowing revegetation of steeper slopes and wetlands through land retirement, fencing and pasture control
- Protecting areas of native vegetation and biodiversity through fencing to exclude stock

Plan Change 1 Mapping and Policies

When looking at the Highest Erosion Risk Land maps specific to the farm, the pockets of square metres dotted across the farm these make little sense to me. The fact that they are not contiguous would mean that it is almost impossible to apply any meaningful actions to them. Their location takes no account taken of factors such as soil type, depth of soil or exposure to weather, either as a sediment transport risk factor or as presenting viable solutions. For example, whether it is a north or south facing slope makes a difference, as does whether it is solid rock, weathered rock or clay soil, whether it is a ridgeline or within an area that becomes a water course in high rainfall. These factors in turn affect whether actions such as planting (either pole planting or planting native vegetation) are likely to be successful with trees in some areas of the land failing to establish successfully.

As a landowner my familiarity with the land is essential to its good management and care. The flexibility to tailor solutions to the specific sources of sediment is important if meaningful outcomes are to be realised.

For example, attached is a section of Map 90, showing highest erosion risk land on the farm. I have numbered just a small number of these linked to photographs.



1. 15 sq m Rocky and exposed, this is unlikely to be a source of significant sediment loss and is unlikely to support woody vegetation



2. Two 5 sq m sections, currently treated by placement of a small sediment retention dam. Fencing in this area is limited by the shallow soil depth and underlying rock.



3. Pole planting which has been difficult to establish due to the exposed nature of the site



4. Pole planting on a lower slope which has been more successful as it is a less exposed site. Note the presence of other vegetation i.e. gorse which also finds the site more favourable.



5. Establishment of a sediment trap at the base of an area identified as highest erosion risk land. This also addresses the fact that this is an identified critical source area



I believe that the actions I have been able to take have made a positive difference to reducing the amount of sediment transported off the farm and that much of their success has been due understanding the land and how the farm operates combined with the ability to be flexible and innovative in matching specific solutions to specific risks. This is what the I understood Te Awarua-o-Porirua Whaitua Committee to be recommending in the WIP and which I believe should be reflected in the policies and rules of Plan Change 1.