



An aerial view of the Tuamarina catchment

Information Package
Regulatory Department
13 July 2023

Contents

Environmental Science & Monitoring	1
Biosecurity (Pest Management)	1
Environmental Science & Monitoring	5
Land Resources	5
Catchment Management	7
Environmental Science (Hydrology)	18
Harbour Functions.....	32
Building Control Group.....	33
Alcohol Licensing.....	36
Resource Consents Section	42
Resource Consent Approvals Under Delegated Authority	44

Environmental Science & Monitoring

Biosecurity (Pest Management)

Reporting period: 3/4/2023 – 23/6/2023

(Report prepared by Liam Falconer, Brent Holms, Jono Underwood)

Broom and Gorse (E315-003-005, E315-003-017)

Surveillance work has been undertaken in the Ure Broom and Gorse containment zones. No issues have been identified.

Bur daisy (E315-003-007-01)

Contractors completed their second round of control and surveillance at the single affected property in the lower Waihopai during April. This involved a total of 31.5 hours of searching with no additional plants being found.

Madeira vine (E315-003-018-01)

A new madeira vine site was identified by a Biosecurity officer on Wither Road. Two plants were discovered while the officer was conducting a nassella inspection. Both plants have since been dug out and removed from the site.



Figure 1. New madeira vine site discovered by biosecurity officer while undertaking nassella inspection.

Moth plant

(E315-003-020-01)

The biosecurity team was notified of two new moth plant sites in the month of May. One was located on Alabama Road and the other on Cleghorn Street. Upon investigating the Cleghorn Street site, two additional plants were found on separate adjoining properties on Howick Road. All plants were destroyed and seed pods disposed of.

Mediterranean fanworm

(E315-003-019-01)

During May and June Council contractors have undertaken surveillance for Mediterranean fanworm in Picton Harbour, Port Underwood and the Grove arm. No fanworm was detected during this round of work.



Image 2. Divers inspecting the rock wall in Waikawa Marina.

Nassella tussock

(E315-003-021-01)

This year's nassella trend monitoring work was carried out by biosecurity staff over April and May. This is the sixth year the monitoring work has been undertaken with the goal being to determine long-term nassella density trends for Marlborough. A total of 24 random properties were included in this year's survey, and 163.5 hours were committed to 113 transect lines. The overall estimated density this year came out at 24.8 plants per hectare. The graph below shows the last six years of data.

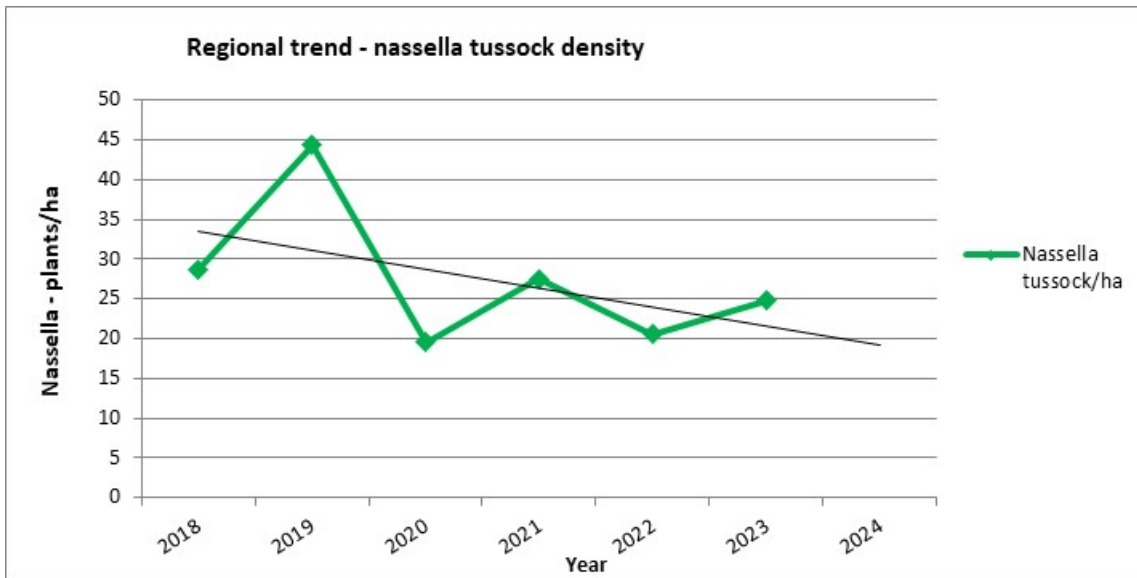


Figure 3. Nassella tussock density trend over last six years

Nassella compliance inspections commenced on 16 May. A total of 113 properties have been inspected to-date, all of which have shown no issues with the occupier's control work efforts.

Land occupiers with properties due for inspections in July have been sent a reminder letter to advise them that inspections will commence from 15 July.

Rabbits

(E315-003-025-01)

Ground monitoring and the night count routes have now been completed. In general, rabbits continue to be at low levels across the district.

White-edged nightshade

(E315-003-034-01)

The remaining white-edged nightshade inspection was undertaken at Poehunui. The property was deemed compliant with evidence of good control work observed. Biosecurity staff destroyed an additional 48 plants during the inspection.

Willow-leaved Hakea

(E315-003-036-01)

During the 2022/2023 season so far 1409 hours of control work has been undertaken in Kapowai Bay on Rangitoto ki te Tonga/ D'Urville Island. Majority of the large plants have been controlled with most of the control work being undertaken on seedlings and young plant.



Image 4. Majority of the work is now controlling seedlings and young plants

Woolly nightshade

(E315-003-036-01)

During May, 126 hours of control work was undertaken at Port Hardy on Rangitoto ki te Tonga/ D'Urville Island. Very few mature plants remain with only two large trees drilled on the latest trip. Majority of the control work is focussed on removing seedlings.

Other Initiatives Operational in this Period

Bomarea

(E315-005-032-01)

Biosecurity staff visited Waitaria Bay to continue control work on the bomarea site that was discovered last year. The amount of bomarea present indicated that the last round of control work conducted in September had been only partially successful. This was likely due to the fact that the plants were dug out and any rhizome fragments missed had regrown. This, combined with the fast-growing nature of bomarea, meant there was a significant amount of regrowth present that required controlling. Biosecurity staff employed a combination of cut and paste and spot-spraying in the hope that these techniques will be more successful.

Wilding conifers

(E315-003-023-01)

The Marlborough programmes receiving NWCCP funding are all starting to wind-up for the 2022/23 season and plans finalised for the 2023/24 season.

The major reduction in NWCCP funding from 2023/24 onwards (to the \$10M baseline level) has been a big factor in the planning for the 2023/24 season. In plans, there has been a focus on protecting the gains and investment from the NWCCP as much as possible, which acknowledging the funding levels (from all sources) is still well short of that needed.

Programme Summaries:

Sounds- (Marlborough Sounds Restoration Trust). MSRT has largely completed the 22/23 programme, with a substantial amount of work completed on Arapaoa Island. MSRT are finalising the 2023/24 programme and have been able to source some third party funding, in addition to the small amount of NWCCP funding, to continue their great work programme.

Waihopai- (Council/Leviathan Consulting). The operational work for this season has been completed, with one survey flight remaining as part of the transition from the 22/23 programme to 23/24. Of note is that there will be a change in programme management from 23/24 with the South Marlborough Landscape Restoration Trust stepping into the programme management role.

Lower Wairau and Awatere- (South Marlborough Landscape Restoration Trust). SMLRT have completed the aerial control components of the Awatere programme targeted hillside and/or remote areas where scattered Contorta was found in previous seasons. They have also completed all planned works in the Te Hau/The Ned Community project.

This year's programme has confirmed the presence of residual scattered contorta pine in the vicinity of the Black Birch catchment. This will form a priority in the coming season to destroy those trees being they contribute a large amount seed into the environment.

Molesworth- (Council/Boffa Miskell Ltd). Another large season of control work has largely been completed. Due to some underspend elsewhere in the NWCCP, one last component of work was introduced late in the season. This resulted in many of the pine shelterbelts in the Tardale area being drilled and filled to remove an ongoing seed source pressure.

As reported previously, with the looming funding reductions as part of the NWCCP, there has been careful planning for priorities in the 23/24 season onwards. Taking into account fall funding sources, the total programme size will reduce from \$3-5M in recent seasons, to just over \$1M.

Environmental Science & Monitoring

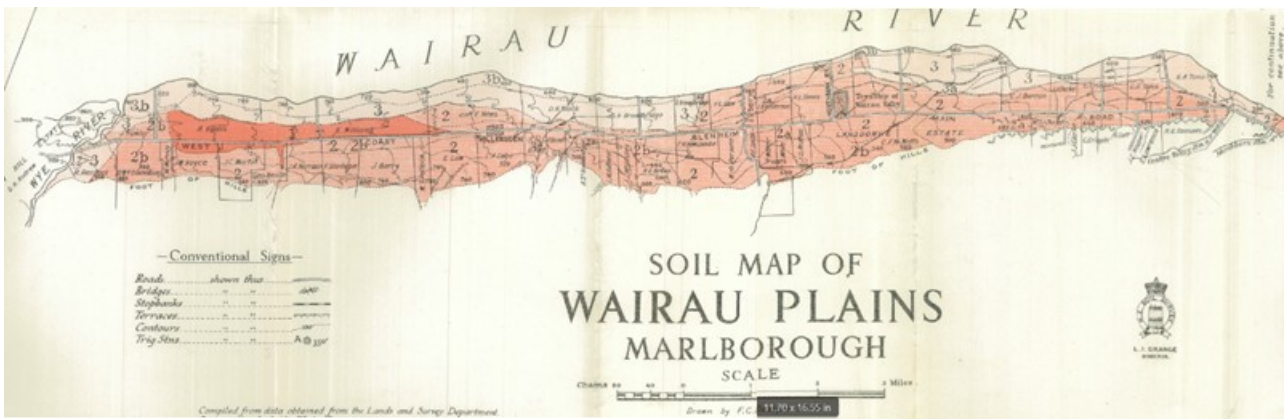
Land Resources

(Report prepared by Matt Oliver)

Soil Mapping Update

(E355-004-008)

Another year has been completed on the Marlborough S-Map soil mapping project. This project has successfully seen maps uploaded for Koromiko and the Rai/Pelorus area. In addition to these new maps work has progressed on two more mapping areas. Field work for the Upper Wairau Valley survey (Marchburn Creek west to the Wye river) is currently underway. This area was last mapped in 1939.



The S-Map project is seeking to update this map using the latest data available. This includes the use of LiDAR and remote sensing data. A project has been completed recently to capture gamma radiometric and electromagnetic data in the study area and this will be correlated to councils 2020 LiDAR to help build detail into the map.

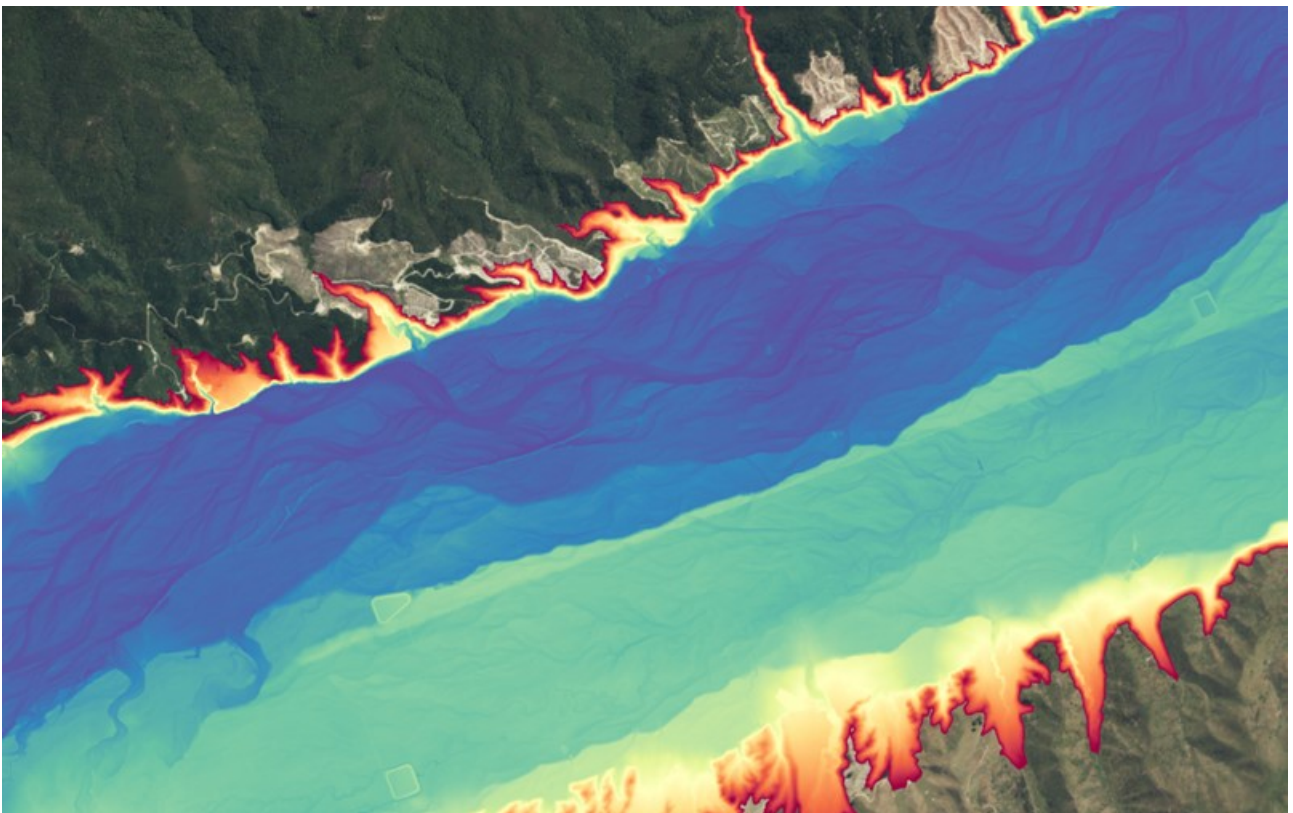


Figure 1: Detail from the Wairau Valley 2020 LiDAR. Note the clearly delineated river channels and former river channels, side valley fans and the faint trace of the Wairau fault (arrowed). All exert influence on the soils of the area.

In addition to this, the remote sensed data is being ground-truthed using traditional soil mapping techniques such as soil landscape models and good old-fashioned hole digging. To date, over 100 soil pits have been dug (by hand) in some very challenging terrain.



Figure 2: Left: Hard digging in an Omaka soil. Right: Dr Kirstin Deuss prepares a soil auger sample for field evaluation

The second project currently underway is a desktop review of the current Awatere Valley soil maps. These have a relatively recent map (2007) and Council published a report on the Awatere Valley Soils in 2020. However, the data contained in the report has yet to be fully incorporated into the underlying attributes for the map. A desktop process to verify the data, check the polygons within the maps match the new LiDAR and more detailed attribute data is underway. No field work is anticipated to be required for this work.

Both projects are expected to be uploaded to S-Maps during the next upload in August 2023 following completion of field work and data analysis and checking.

Catchment Management

(Report prepared by James Mills-Kelly)

Hill Country Erosion Fund

(E355-019-004)

The Hill Country Erosion Project is a jointly funded programme between MDC and Ministry for Primary Industries. The fund provides financial support to landowners to stabilise eroding land through either space planting or retirement from grazing, and also provides assistance for retirement of high-risk forestry land.

Council recently received more than \$900,000 in funding over the next four years to continue the programme which supports farmers to plant trees and combat erosion on marginal farmland.

Planting and fencing are currently underway as the current funding round comes to a close at the end of the financial year, and the next four-year funding round begins on 1 July. The programme is currently supporting some major retirement projects in French Pass, the Flaxbourne catchment, the lower Awatere and Grassmere, among others. Planting conditions are ideal, and previous plantings have benefitted from good, regular rainfall over the past year.

Catchment Care for At-Risk Catchments in Marlborough (E355-021-04-06)

(Report prepared by Rosanne Homewood)

'Catchment Care for At Risk Catchments in Marlborough' is jointly funded by Ministry for the Environment's Public Waterways and Ecosystem Restoration Fund and Marlborough District Council. This project focusses on four catchments that have been identified through the pMEP as having water quality that is degraded or at risk of degradation: Linkwater Stream, Are Are Creek, Tuamarina River and Flaxbourne River. It is currently in Year 3 of a five-year work programme.



Figure 3: a completed planting in Are Are Catchment

Catchment Condition Survey (CCS) are used in each catchment to collect information relating to waterways, including in-stream conditions, bank erosion, fencing, riparian buffers, critical source areas, weeds and fish barriers. These surveys identify priority areas for mitigation work. To date 9,694 hectares have been surveyed across the four catchments. 541 km of waterways have been identified, 56% of these waterways are greater than one metre in width and may require stock to be excluded under the recent Section 360 RMA Stock Exclusion Regulations.

Riparian fencing, planting and the use of dung beetles is subsidised under this project and over the life of the project the goal is to complete 36.5km of fencing, establish 42,000 plants to protect riparian/wetland areas and implement 50 dung beetle farm packs to improve water quality. In the last six months, 5.5km of fencing have been installed and 11,759 plants have been planted. This means that to date, 15km of fencing has been completed, 23,263 plants have been planted and ten dung beetle farms packs and two lifestyle packs have been ordered (two have completed all species releases).

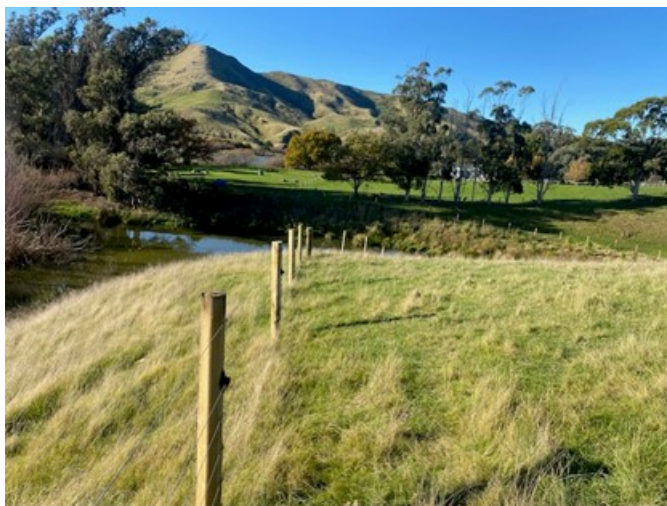


Figure 4 Fencing completed in Flaxbourne.

Marlborough District Council has also hired a new Catchment Care Advisor to take over the role previously held by Rachel Russell. Rosanne Homewood started in the role in mid-April and has been working closely with Rachel to ensure a smooth transition.

Ministry for the Environment and Marlborough District Council have also invested in long term erosion and sediment management plan for Are Are creek and eDNA analysis for waterways in each of the at-risk catchments. The eDNA testing, the data of which is publicly available, will give catchments important information identifying which species have been detected in the waterways, including endangered or

threatened species as well as pest species. Results can be accessed at:
<https://www.wilderlab.co.nz/explore>

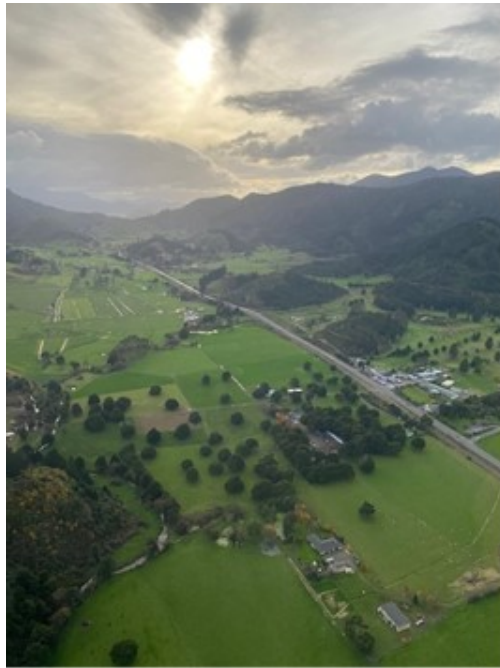


Figure 5: An aerial view of the Tuamarina catchment

Te Hoiere Project Update

(E355-021-01-001)

(Reported prepared by Rachel Russell)

The Integrated Catchment Enhancement Plan (ICEP) provides the foundation for all work being undertaken under Te Hoiere Project. Funding via four funds – MfE's Freshwater Improvement Fund and At Risk Catchment Fund and DOC's Mahi mō te Taiao – Jobs for Nature fund and Nga Awa Bio18 Fund – supports environmental, cultural, social and economic objectives. Marlborough District Council provides fund and project management for Te Hoiere Project.

Aubrey Tai, MDC's Catchment Care Officer, has continued to engage with landowners and land managers in Te Hoiere/Pelorus to discuss and plan freshwater mitigation on their individual properties. This year a total of 24km of fencing has been completed, 36,697 riparian plants planted, and four dung beetle farm packs established.



Glyn Jones pots up a tōtara.

Te Hoiere Project boosts biodiversity

By Chris Valli

Native seedlings are being planted at 13 sites totalling 7.2 hectares in the Te Hoiere/Pelorus catchment this autumn and early winter, supported by Te Hoiere Project.

Glyn and Carol Jones have planted about 7000 kānuka, mānuka, beech, hoheria, tōtara, kahikatea and other natives along streams, on slopes and in awkward corners of their Ronga farm near Rai Valley. This includes 600 planted this autumn by Project contractor, Landscape Marlborough, behind fences built by Glyn.

"The trees help with erosion protection, silt retention, and bring the birdlife out of the bush. We are hearing more tūi and bellbirds,"

says Glyn who traps possums and rats along with shooting pigs, goats, rabbits and hares to protect birdlife and plants.

When the Jones heard about Te Hoiere Project, they recognised it would enable five years planting progress in one. To participate required agreeing to a free catchment condition survey and signing a landowner agreement. The farm was mapped, and first plants delivered, about two years ago.

Te Hoiere Project is also providing 15,000 native seedlings to Ngāti Kuia, for planting at Ruapaka Wetland near Canvas-town. Diploma of Horticulture graduates trained by NMIT in partnership with the iwi is replacing willows and other weeds with native species.

The Ministry for the Environment is helping pay for the Ruapaka restoration along with Fonterra and the Department of Conservation. Waka Kotahi/Marlborough Roads provided a stop-go road crew as machinery ground poisoned willows into mulch for seedlings, alongside SH6.

Te Hoiere catchment coordinator, Aubrey Tai, says the Project aims to protect Te Hoiere/Pelorus catchments and restore biodiversity from the headwaters to the sea/ki uta ki tai. Packages are tailored to each property and landowners' ability to contribute labour, plants, or materials. The Marlborough District Council and the Department of Conservation are partners along with Ngāti Kuia, Rangitāne o Wairau and the community.

Image: Article from The Blenheim Sun, Wednesday 21 June 2023.

Table 1: Summary of fund actions

Fund	Year	Actions
Freshwater Improvement Fund (MfE)	Year 2 of 5	<ul style="list-style-type: none"> Riparian mitigation actions Dung beetle farm packs Educational workshops Catchment Care Officer (overheads)
Jobs for Nature 0021 (DOC)	Year 2 of 4	<ul style="list-style-type: none"> Early Win (Forest & Bird) Native Nursery (Ngati Kuia) Long Term (MDC) Salaries: Admin staff, Field staff, Kaitiaki Rangers Predator Control Supplies
At Risk Catchments	Year 1 of 3	<ul style="list-style-type: none"> Project Management

Fund	Year	Actions
Fund (MfE)		<ul style="list-style-type: none"> • Research Programme • Communications • Monitoring Programme • Catchment group support • Events Programme • Restoration Guides • Education Programme • Kaitiaki Ranger (overheads) • Cultural Mapping • Māori Water Classification System • Actions to improve water quality • Fish passage barrier identification & mitigation • Land transition strategy • Geospatial tool development • Riverbank erosion plan • Sediment Monitoring (Forestry)
Nga Awa Bio 18 Fund (DOC)	Ongoing since 2019	<ul style="list-style-type: none"> • Resourcing for Ngāti Kuia and Rangitāne to allow for full participation in Te Hoiere Project • Employment of part-time C-Band Ranger • Contribution to employment of Project Manager • Eco-sourced seed collection • Hospitality and travel • Baseline information gathering and monitoring to inform re-establishment of taonga species (whio, kākahi, kanakana, tuna) • Map historical footprint of taonga species • Threatened species populations and habitat are maintained and enhanced. • Habitat restoration (Contribution towards Ruapaka restoration, other projects to support taonga species restoration) • Coordinate with other agencies to agree on a monitoring plan and site locations. • Fish barrier assessments on PCL

eDNA Testing

Comprehensive eDNA testing was completed across Te Hoiere/Pelorus catchment at eight sites in April. The eDNA kits were funded by Ministry for the Environment and are part of wider eDNA programme led by Marlborough District Council across Marlborough. The analysis of the kits in Te Hoiere were funded by Te Hoiere Project. The results are publicly available on the Wilder lab website: www.wilderlab.co.nz/explore

Fish Passage Assessments

India Hamill, MDC's Freshwater Ecosystems Scientist, has been leading assessment of fish passage barriers in Te Hoiere/Pelorus. Guided by information collected previously by the Catchment Condition Survey, India has started assessments of stream structures in Linkwater Catchment. Through the project, Hana Mason has also been engaged as a Nga Awa Ranger by DOC to support fish passage assessments and in the future fish monitoring. Hana and Anna Henderson from DOC and MDC staff India, Zeke Hoskins, Pete Hamill, and Rosanne Homewood recently completed joint fish monitoring training. The DOC and MDC

freshwater teams came together with Emily White from NIWA who provided practical support to test out fish surveying methodology.



Image: Pete Hamill, Zeke Hoskins, Hana Mason (DOC) and India Hamill try out electric fishing techniques in Are Are Creek.



Image: Emily White from NIWA (left) and India Hamill show off their successful electric fishing techniques in Fulton Stream, capturing lamprey ammocoetes.

Ruapaka Wetland

One of the largest and most visible projects in Te Hoiere is being led by project partner, Ngāti Kuia. The restoration of Ruapaka Wetland is being supported by funding from Fonterra, MfE's At Risk Catchment Fund and DOC's Nga Awa Bio 18 fund. As of June 2023, the majority of Ruapaka Wetland had been drilled, filled and aerial sprayed to remove willows (13 hectares). Areas next to the road edge have been mechanically mulched to allow for quicker turnaround between weed control and planting. Ngāti Kuia Taiao Kaitiaki Crew have signed up as an MDC approved contractor and are supporting the restoration work at Ruapaka planting and undertaking weed control.

Ngāti Kuia are in the process of developing a cultural health index monitoring framework with support from Our Land and Water. This tool will help to monitor the restoration work at Ruapaka as well as assess the state of the Mauri of freshwater across Te Hoiere.

Commercial native plant nursery at Titiraukawa (Summary of update provided to Te Hoiere Kaitiaki Trust meeting)

Ngāti Kuia, via their Kaikaiāwaro Charitable Trust, are developing a commercial scale Native Plant Nursery at their Titiraukawa site at 28 Maungatapu Rd, Pelorus, within the Te Hoiere catchment.

For Ngāti Kuia, this development represents a further step in the creation of commercial training and career opportunities for their iwi within the horticulture industry. The Nursery will operate on a semi-mechanised approach enabling further education opportunity for their rangatahi and wider whanau and to provide a genuine employment for overseas based whanau to return to the Te Taihū region.

The Titiraukawa Nursery will initially service the requirements of the wider Te Hoiere restoration programme, that will see an extensive restoration project delivered throughout the catchment, applying mātauranga Māori principles to restore Te Hoiere waterways to elevate them to a more pristine state.

A Resource Consent application has been submitted to Marlborough District Council for processing, once the relevant consents have been granted work will begin on the glasshouse and associated nursery structures.

20 Tuesday 20 June 2023

Rural News

Rural
News

Plantings restore Pelorus catchment

PENNY WARDLE

Native seedlings are being planted in wetlands and along rivers and streams in Marlborough's Te Hoiere/Pelorus catchment this autumn and early winter.

Te Hoiere Project is supporting the planting of 13 sites totalling 7.2 hectares, says catchment care coordinator, Aubrey Tai. Landowners and the Project share costs including buying and planting seedlings, fencing to keep stock out, weed control, and planting maintenance.

Mark and Simone Zillwood are Te Hoiere Project catchment leaders for Pelorus/Wakamārina, offering over-the-gate advice to not only farmers but anyone wanting help with restoring land. They milk 140 cows on a 50-hectare effective farm between Canvastown and Pelorus Bridge.

Since buying the property in 2008, the Zillwoods have fenced and planted the banks of a Pelorus River tributary in native species. This protects against bank erosion.

This autumn the couple planted another 1000 native seedlings and installed tree guards, supplied through Te Hoiere Project. Unproductive areas were filled and gaps between streamside



Ford Hemi is part of the Ngāti Kuia planting team. Photo: Melissa Banks.

plantings.

"The Project is helping people who are short of time and money, enabling them to get things done more quickly than originally planned," says Mark.

Ronga Valley farmers, Glyn and Carol Jones, bought their 120-hectare farm in the Ronga Valley, near Rai Valley, township four years ago.

"We wanted a place with hill country, native bush, waterways and firewood trees," says Glyn. The wish-list was filled, including a 5ha pine plantation.

Glyn collects native seedlings from the native bush backdrop to the farm. These are grown out in a shade-house, along with nursery purchases and "anything donated or pillaged".

"We were already doing the things the Project wants to see happen off our own bat and could see with Project support, we could make five years progress in one."

So far about 7000 kākūka, mānuka, beech, hoheria, tōtara, kahikatea and other seedlings have been planted.

This includes 600 planted this autumn by Project contractor, Landscape Marlborough, behind fences built by Glyn.

Te Hoiere Project is also supporting Ngāti Kuia restoration of the 14-hectare Ruapaka Wetland near the iwi's Te Hora Marae at Canvastown. Diploma of Horticulture graduates trained in a Ngāti Kuia-NMIT partnership will plant 15,000 mixed wetland species this year.

Restoration began with controlling willows and other weeds that had colonised the wetland,

drilling and injecting trees and vines along the edge then helicopter spraying. Dead trees were ground to sawdust being used to mulch seedlings.

The Ministry for the Environment is helping pay for this restoration along with Fonterra and the Department of Conservation. Waka Kotahi/Marlborough Roads provided a stop-go road crew as machinery ground poisoned willows into mulch, alongside SH6.

To access Te Hoiere Project support, landowners must agree to a free catchment condition survey and sign an agreement. Packages are tailored to each property and ability to contribute labour, plants, or materials.

A partnership between the Marlborough District Council, Ngāti Kuia, Rangitāne o Wairau and the community, the Project aims to protect catchments, improve water quality and restore biodiversity ki uta ki tai from the mountains to the sea at Motuweka/Havelock Estuary.

The Department of Conservation, NZ Landcare Trust, Fonterra, Forest & Bird, Top of the South Wood Council, Waka Kotahi/Marlborough Roads, the Ministry for the Environment and Ministry for Primary Industries provide support.

Image: Article from Marlborough Weekly, Tuesday 20 June 2023

Te Hoiere Bat Recovery Project

(Summary of update provided to Te Hoiere Kaitiaki Trust meeting)

Pelorus Bridge, Carluke Scenic Reserve, and Brown River Reserve, are homes to one of the last remaining populations of long tailed bats in Marlborough. Te Hoiere Bat Recovery Project looks into intensifying predator control, biomonitoring and habitat restoration in the area to protect the existing populations of pekapeka and increasing their numbers.

Below is a summary of recent actions:

- Last season, bat monitoring happened at Pelorus Bridge Scenic Reserve PBSR, Carluke and Brown River Reserve. Currently, animal pest trapping happens at PBSR, and to some extent at Ronga Reserve.
- A new Project Manager started in April
- Extensive weeding takes place in Ronga Reserve as part of the habitat restoration.
- Bat scientists finalised analysing the bat recording from the last bat monitoring season and are preparing the report.
- Eco Team identified and mapped infestation of cherry laurel in Carluke Reserve
- Replaced 100% Possum Master traps at Pelorus Bridge with the NAWAC approved Flipping Timmys
- Replaced the missing Victor Professional Rat traps for the existing trapping lines
- Eliminated previously unidentified barberry patches.
- A new Eco Team member started as a staff and completed their inductions.
- Team Lead and PM together reviewed GIS reporting system reviewed with Ethos Environmental.

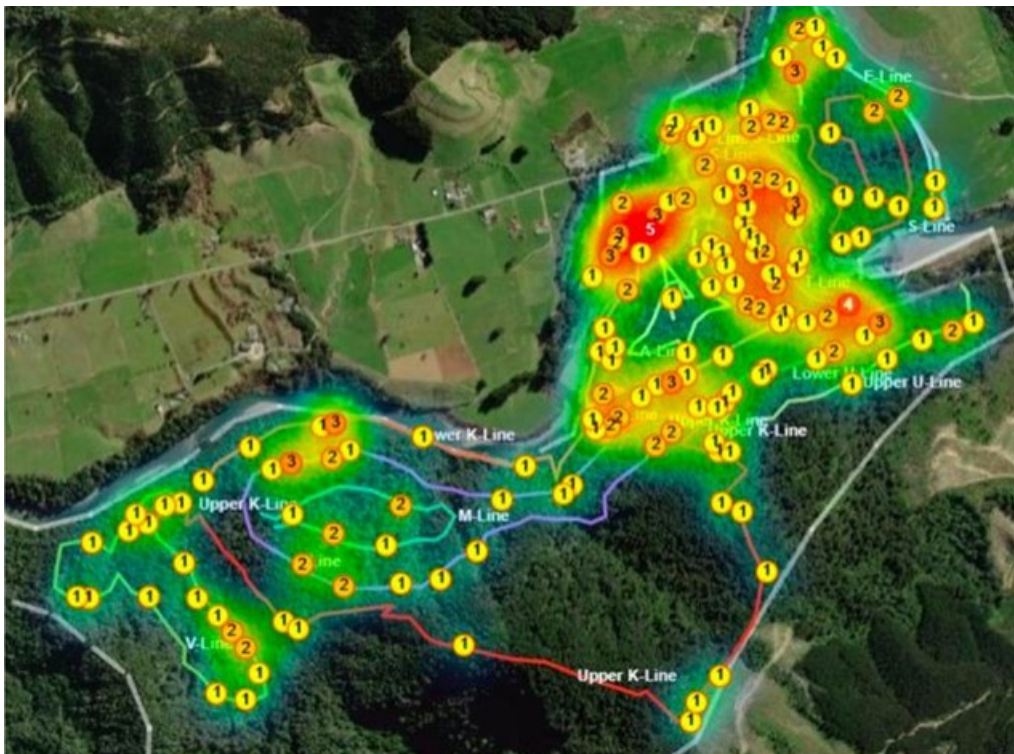


Image: A heat map showing the number of rats caught at Pelorus from January to April. Source: Forest & Birds Te Hoiere Bat Recovery Project Facebook page, 7 June 2023.

River and Stream Monitoring Update (E375-003-001)

(Report prepared by Steffi Henkel)

The National Institute of Water and Atmospheric Research (NIWA) has recently announced plans to terminate its nationwide water quality monitoring programme by July 2023. In Marlborough, NIWA monitors

a single site, the Wairau River at Dip Flat. The Wairau is the largest catchment in the region and the Dip Flat monitoring site plays a crucial role in our State of the Environment monitoring network by offering valuable data on the river's health in the upper catchment. Going forward, the Council will take over responsibility for monitoring the site.

NIWA currently handles the analysis of their samples in-house, while council contracts Hills laboratories for this service. Different analysis methodologies employed by separate laboratories can lead to discrepancies in the reported results. To ensure the consistency of monitoring data, it is necessary to conduct parallel sampling over a one-year period. This will ensure that trend analysis can continue to be carried out. The Ministry for the Environment is presently exploring the option of providing financial support to councils during this transition phase.

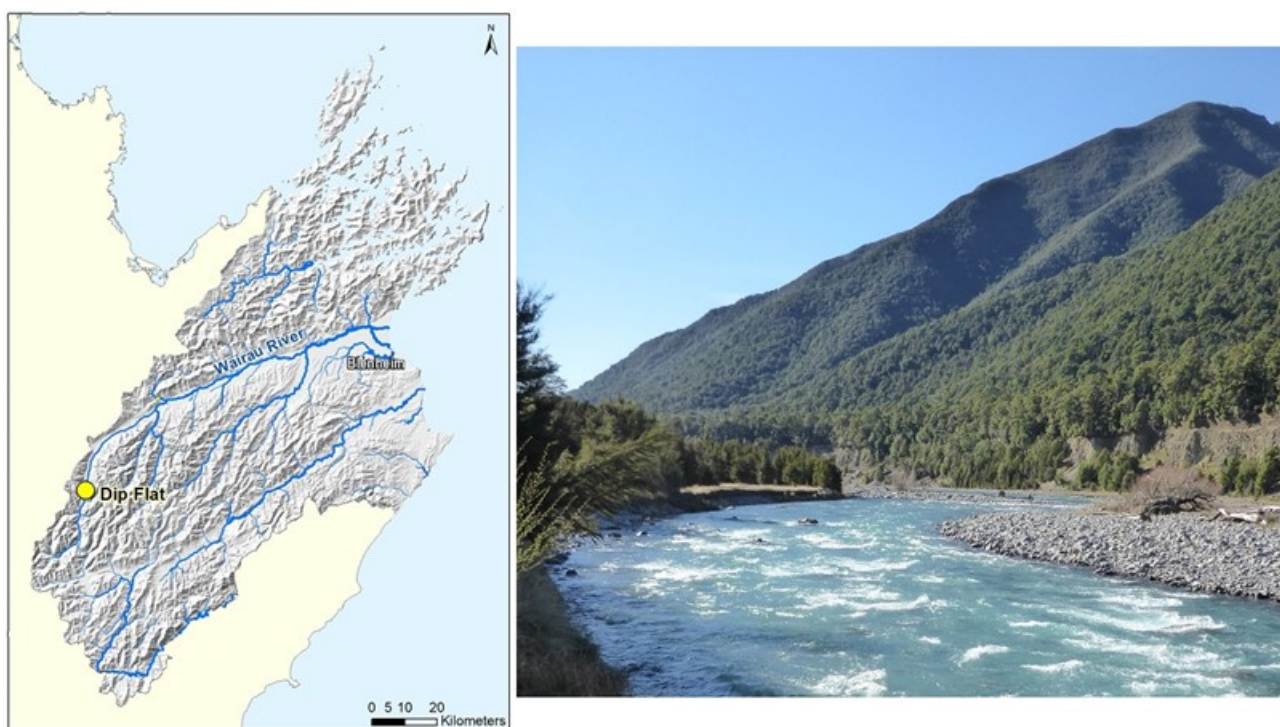


Figure 6: The Wairau River at Dip Flat water quality monitoring site.

Recreational Water Quality (E370-005-001)

(Report prepared by Steffi Henkel)

The latest annual Recreational Water Quality report is set to be presented to the committee. Notably, this is the first time the report includes an extensive trend analysis for river swimming sites, complemented by a detailed investigation of factors that influence E. coli concentrations at individual river sites. This analysis paves the way for the development of predictive models to provide near real-time health risk assessments for swimmers, which is a significant improvement from the weekly sampling results currently displayed on the LAWA website.

Given that E. coli concentrations can fluctuate within relatively short time frames due to rainfall, results from weekly sampling programs cannot serve as adequate indicators of health risk to swimmers. Predictive models offer a substantially more effective means of keeping the public informed about such risks.

As the majority of samples taken from swimming locations in Marlborough have very low bacteria concentrations, data that can be used to predict higher (unsafe) bacteria levels is comparatively scarce. This shortage of data means there is insufficient information to develop models that predict real-time bacteria concentration. However, since the public's primary concern revolves around whether bacteria concentrations are safe or not, the exact bacteria concentration prediction is not essential. Instead, we can use simpler, logistic models to provide a probability that bacteria levels are above safe concentrations.

Some of the initial models have shown promising results, with prediction accuracies exceeding 90%.

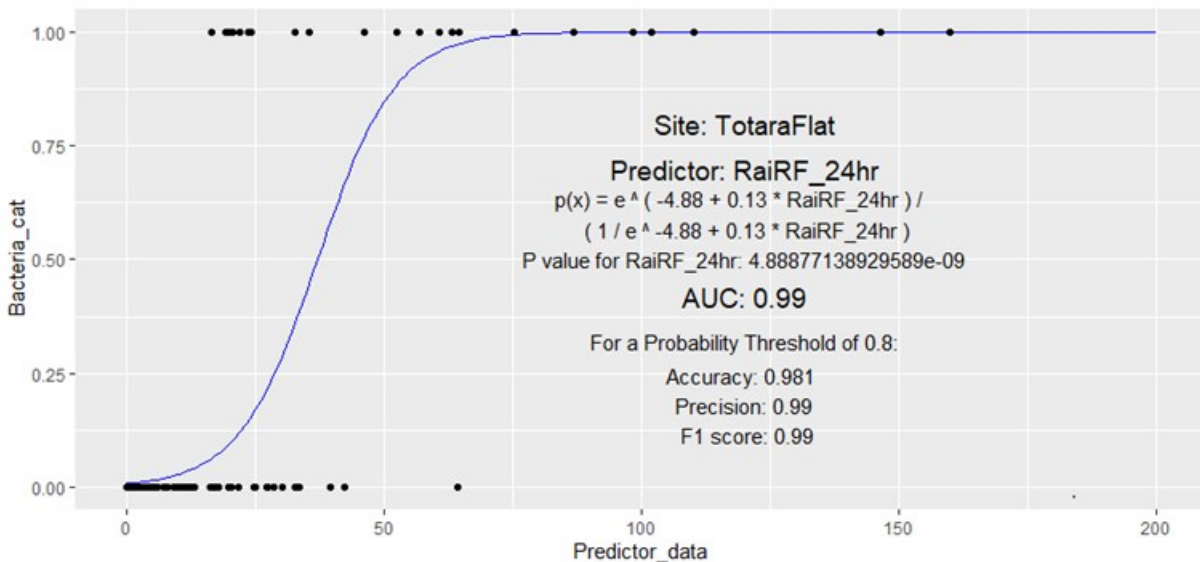


Figure 7: Example of a model that provides the probability of safe/unsafe E. coli concentrations in the Te Hoiere/Pelorus River at Totara Flat using Rainfall recorded at Rai Falls. The E. coli data is divided into two categories (0 = safe concentrations, 1 = unsafe concentrations).

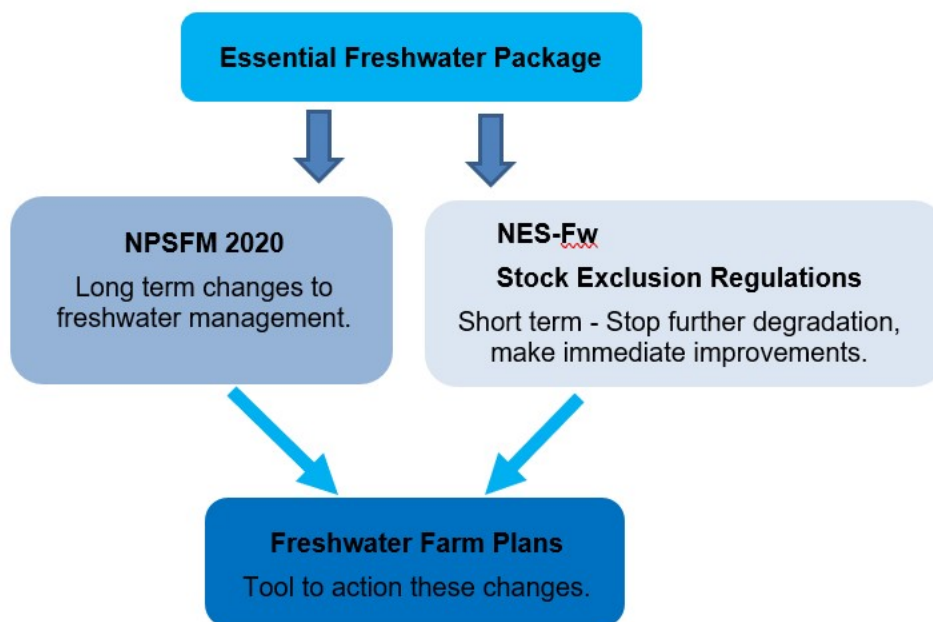
In time, a similar methodology could also be applied to coastal beaches currently monitored under the recreational water quality programme.

Freshwater Farm Plan Regulations Update E360-000-002)

(Report prepared by Sarah Pearson and Matt Oliver)

The long-awaited Resource Management (Freshwater Farm Plan) Regulations 2023 were enacted on the 6 June 2023 and come into force for the Waikato and Southland regions on the 1 August 2023, with the remainder of the country being ‘turned on’ by the end of 2025.

This is one of the final pieces of the Government’s 2020 Essential Freshwater Package and provides the on-ground tool to help implement the longer-term changes to freshwater health as required through the National Policy Statement for Freshwater Management (NPSFM) 2020 and the shorter-term halts on freshwater decline activated through the National Environmental Standard for Freshwater (NES-Fw) and the Stock Exclusion Regulations.



Freshwater Farm Plans (FWFP) are a practical way for farmers and growers to identify, manage and reduce the impact of farming on the freshwater environment. Each farm operator will be required to prepare a farm plan that;

1. identifies the risks of their farming activity to freshwater, taking into consideration their catchment context,
2. identify actions to manage those risks, and
3. categorise, prioritise, and set timeframes for the implementation of those actions to reduce those risk and effects.

These FWFP must then be certified and subsequently the actions will be audited.

The regulations apply to all those with:

- 20 hectares or more in arable or pastoral use.
- 5 hectares or more of horticultural use (this includes viticulture).
- 20 hectares or more of combined use.

Council staff in the Environmental Science, Policy and Compliance and Monitoring Teams are currently working through the regulations and a raft of information provided by the Ministry for the Environment (MfE) and will report back to the Committee in depth at its next meeting on 24 August. This will include details on roll out timing, communication programme to the agricultural sector, and operational processes, resourcing, and actions that the Council will need to take to implement these regulations.

The next step will require Council, through an Order in Council, to provide the Government with an order in which we will turn our catchments on. At this stage staff understand this will not be required until after the election, providing time to work with Iwi on a suitable roll out strategy. Verbal communication with MfE has also indicated that they intend for the Marlborough region to be “turned on” in July/August 2024 and all our catchments must be turned on by the end of 2025. Once a catchment has been turned on the farm operator will have 18 months to submit their farm plans to a certifier.

In addition to this, council will need to provide a Catchment Context, Challenges and Values information for each catchment ahead of the switch on date. The process and methods for providing this information are still in development but will include input from Council State of the Environment monitoring and planning teams to help inform farm operators what actions are needed in each catchment area.

Non-regulatory support will also be provided via Council's Catchment Care programme, this will include catchment condition surveys, critical source area identification and setting priorities within catchments to help farm operators identify where to act first for best effect.

Staff recognise that there is an understandable desire for the regions rural sector to want to get on with these plans but the message to Marlborough farmers at this stage is:

- Keep calm and carry on - we have time to get organised.
- Don't rush out and get a farm plan done.
- Keep informed via industry bodies. Council will reach out to these groups as soon as our processes are finalised.
- Get involved in a catchment group or community of interest.

The following links can be used to access the Freshwater Farm Plan information through the MfE website and view the legislation itself.

<https://environment.govt.nz/acts-and-regulations/freshwater-implementation-guidance/freshwater-farm-plans/>

<https://www.legislation.govt.nz/regulation/public/2023/0113/latest/whole.html>

Environmental Science (Hydrology)

(Report prepared by Charlotte Tomlinson)

Hydrology of Marlborough – Summary for April 2023 (E320-001-001)

Data from the Marlborough District Council’s Environmental Monitoring network was primarily used in preparing this report and supplemented with data from sites operated by the Marlborough Research Centre, MetService, NIWA, and FENZ.

Executive Summary

Settled weather continued in April, with rainfall near average for much of the region. Rainfall in Blenheim was 35.8 mm, which is slightly below the long-term average for April. Higher rainfall totals were seen in the Rai Valley area, with 350 mm total rainfall recorded at Tunakino, which is 170% of average April rainfall.

The Wairau River at State Highway One stayed above median flow (60 m³/s) for most of April, with two small flushes mid-month. The Rai and Pelorus rivers had their maximum monthly flows on the 19th of April, with peaks of 200 m³/s in the Rai at Falls, and 550 m³/s in the Pelorus above the campground. The peaks in both rivers were below mean annual flood level.

Average shallow soil moisture (5-35 cm depth) at the Grovetown Park weather station was 27.4% for April, very close to the long-term average. The soil moisture deficit for the main growing areas of Marlborough is near to the historic average for this time of year.

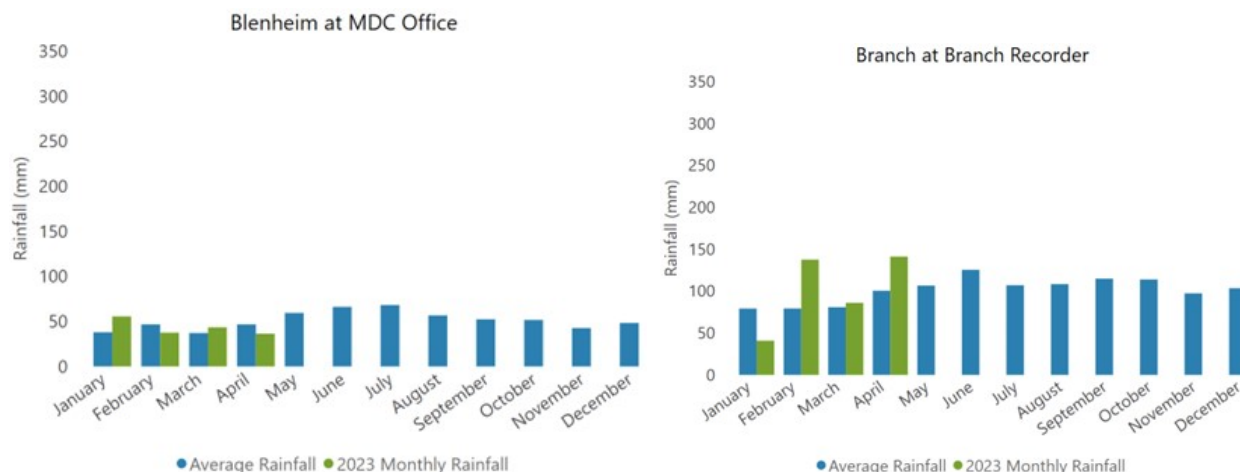
ENSO-neutral conditions continued through April. During early May, a northerly airflow will bring warm temperatures and tropical moisture to Marlborough and may deliver heavy rain. From early winter, southerly winds will become more common, which may result in lower than normal rainfall. These southerly winds, along with increasing sea temperatures along the equatorial Pacific, are consistent with a developing El Niño.

Rainfall

As recorded at the Grovetown Park weather station, total rainfall in Blenheim was 35.8 mm in April, which is 74% of the long-term average. There were 8 rain days in April (defined as 1 mm or more of rain), while the long-term average is 5.5 rain days (data courtesy of the Marlborough Research Centre).

Rainfall at the Awatere at Awapiri and Flaxbourne sites was also slightly below average in April. In contrast, rainfall at Tunakino, Waikawa, and the Branch were all above average for the month. Tunakino recorded 350 mm of rain in April, while the average total is just over 200 mm.

Figure 1. Monthly rainfall totals for 2023 from 6 key sites around Marlborough, compared to average monthly rainfall totals.



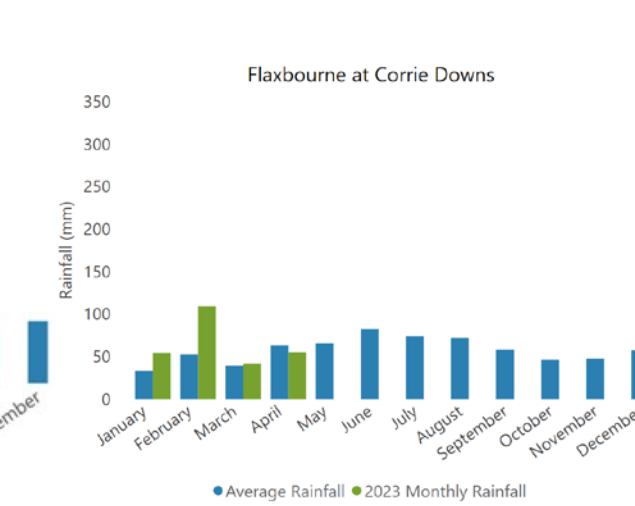
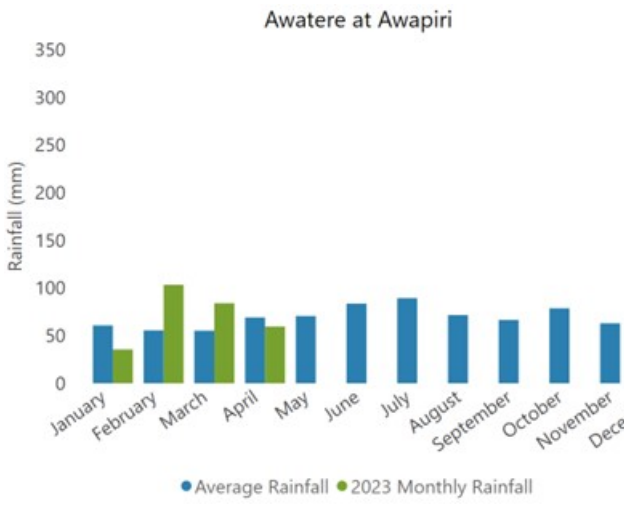
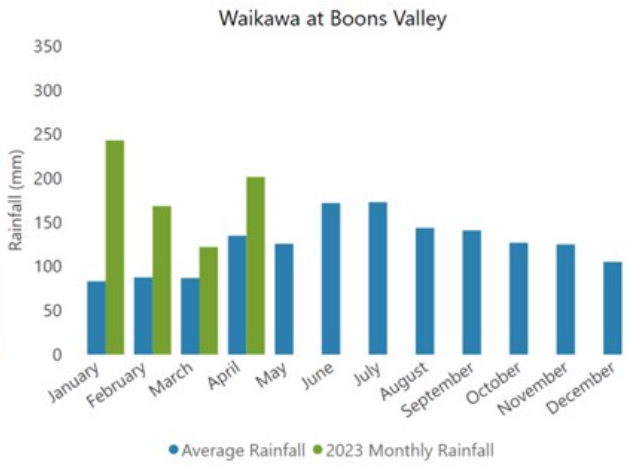
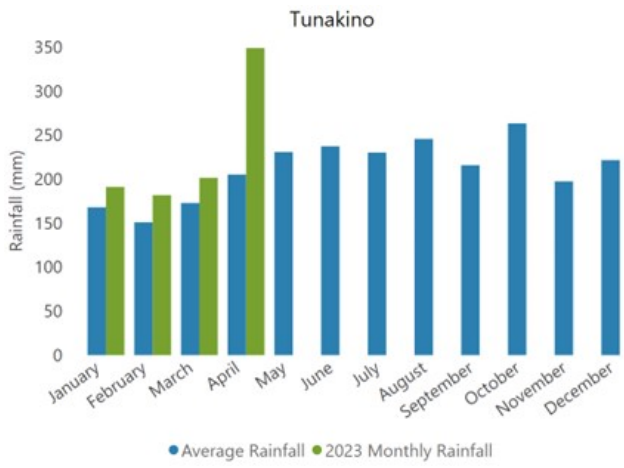


Table 1. 2022/23 monthly rainfall totals (mm) at rainfall monitoring sites in Marlborough.

Site	July	August	September	October	November	December	January	February	March	April	May
Awatere at Awapiri	258	108	50	19	162	61	36	103	84	60	133
Awatere Glenbrae NRFA	169	57	39	11	37	42	50	46	38	29	60
Beneagle at Farm Stream	261	94	78	21	95	62	78	57	47	46	83
Blenheim at MDC Office	220	104	38	13	78	48	56	38	44	37	82
Branch at Branch Recorder	242	283	90	25	137	67	41	140	90	148	398
Flaxbourne at Corrie Downs	272	66	93	21	64	70	54	109	42	55	45
Kaituna Rainfall at Higgins Bridge	287	363	87	104	192	58	101	111	103	122	254
Kenepuru Head NRFA	469	516	192	159	182	127	179	247	168	172	311
Koromiko NRFA	337	287	186	130	126	148	233	111	139	122	171
Lake Elterwater Climate	289	67	106	23	53	72	67	113	48	51	38
Lansdowne NRFA	298	239	88	25	130	50	42	87	74	113	234
Malings	201	276	91	95	151	54	14	90	186	99	206
Mid Awatere Valley NRFA	181	78	29	7	98	71	25	90	97	42	137
Molesworth NRFA	152	99	39	12	75	77	18	89	62	51	119
Omaka at Ramshead Saddle	210	141	72	20	112	65	73	73	93	65	185
Onamalutu at Bartletts Creek Saddle	459	451	142	135	160	106	88	111	111	176	402
Onamalutu at Hilltop Road NRFA	462	448	135	169	167	88	110	98	107	199	287
Picton Climate at Waitohi Domain	262	332	132	95	128	100	194	147			173
Pudding Hill NRFA	98	124	49	23	90	62	60	51	12	43	69
Rai at Rai Falls	394	913	177	193	254	65	145	151	142	299	484
Rai Valley NRFA	419	735	209	158	263	110	188	173	181	250	453
Rarangi at Driving Range	324	186	68	58	121	79	76	77	86	50	115
Red Hills	236	251	114	28	167	113	46	140	112	174	463
St Arnaud NRFA	208	199	138	67	177	84	42	84	129	112	240

Site	July	August	September	October	November	December	January	February	March	April	May
Taylor at Taylor Pass Landfill	165	87	55	15	85	48	53	46	37	56	78
Taylor at Tinpot	310	138	105	47	118	78	104	81	66	82	125
Te Rapa	378	86	133	31	71	90	52	165	93	85	40
Top Valley at Staircase Ridge	388	410	114	57	161	68	67	137	134	185	446
Tor Darroch NRFA	248	164	79	20	139	91	36	91	131	106	219
Tunakino	431	1241	224	184	253	117	192	183	206	356	572
Upper Clarence NRFA	93	34	28	14	68	47	20	22	32	26	46
Waihopai at Craiglochart	212	114	54	20	90	51	21	88	67	61	142
Waihopai at Spray Confluence	235	163	69	10	109	90	21	77	82	85	207
Waikakaho	358	6	94	54	117	87	95	57	69	74	194
Waikawa at Boons Valley							243	169	122	202	174
Wairau at Narrows	292	246	79	51	103	65	43	54	51	98	197
Wairau Valley at Southwold	310	273	77	39	102	48	41	108	56	95	227
Wakamarina at Twin Falls	318	590	183	186	228	67	100	139	128	228	376
Ward NRFA	294	65	87	24	80	67	36	115	54	57	59
Wye at Charlies Rest	215	208	95	22	114	75	43	119	89	94	225

River Flows

The Taylor River upstream of the Dam (Borough Weir site) had low flows throughout April, with flows near 50 l/s through the first half of the month, and rainfall on the 19th raising flow to a maximum of 0.5 m³/s. Mean flow for April 2023 was 166 l/s, just 38% of the April long-term average.

The Rai and Pelorus rivers responded to rain on the 19th of April, with peak flow of 200 m³/s in the Rai, and 550 m³/s in the Pelorus. The peaks in both rivers were below mean annual flood level.

The Wairau River at Barnett's Bank has stayed above median flow (60 m³/s) for most of April, with two small flushes on the 11th and 19th of April.

A summary of river flows for April 2023 can be seen below in Table 2.

Table 2. A summary of river flows in Marlborough for April 2023.

River	Site	April mean flow 2023 (m ³ /s)	April mean flow all records (m ³ /s)	% of monthly average	Records begin	Catchment area (km ²)
Pelorus	Bryants	30.93	18.45	168	1977	375
Rai	Rai Falls	20.30	9.02	225	1979	211
Kaituna	Higgins Bridge	3.73	2.96	126	2006	133
Branch	Intake Weir	21.58	20.30	106	1958	550
Wairau	Barnetts Bank	97.05	81.68	119	1960	3,430
Ohinemahuta	Domain	1.23	1.06	116	1998	33
Waihopai	Craiglochart	17.88	11.35	158	1960	764
Awatere	Awapiri	11.82	8.89	133	1977	987
Omaka	Gorge	1.05	0.75	140	1994	90
Taylor	Borough Weir	0.166	0.44	38	1961	64

Soil Moisture

During April, average shallow soil moisture (5-35 cm depth) at the Grovetown Park weather station was 27.4%. This is 2.6% higher than the long-term average soil moisture for April of 24.8%.

As of the 30 April 2023, the soil moisture deficit for the main growing areas of Marlborough is near to the historic average (see Figure 2 below). Soils generally have slightly more water storage than the same time last year. The soil moisture anomaly map (Figure 3) shows that soils are neutral to slightly wetter than normal, up to 20-40mm wetter than normal in the north of the region.

Soil moisture deficit (mm) at 9am on 30/04/2023

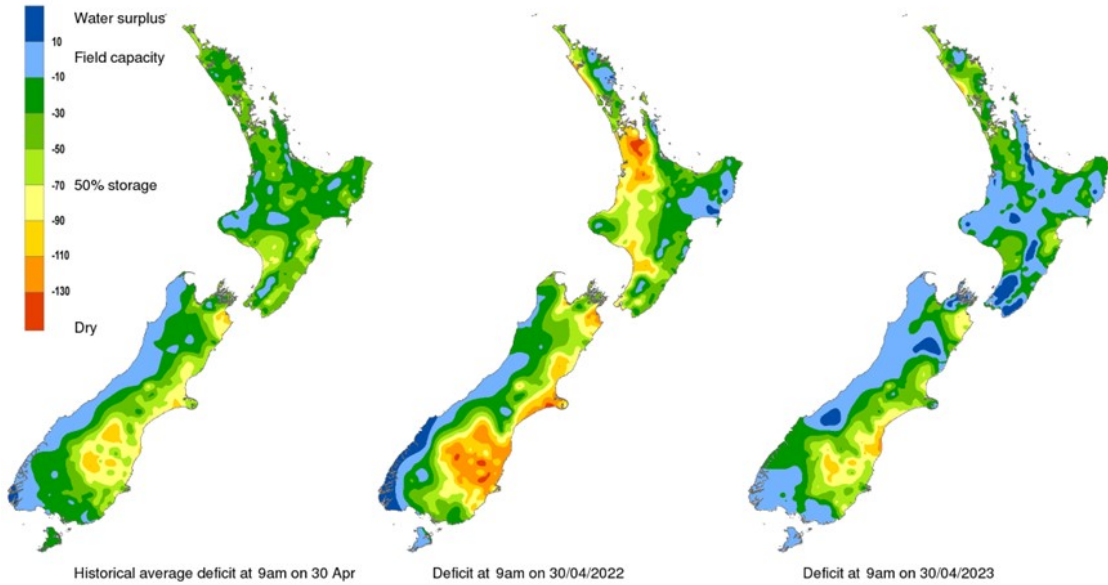


Figure 2. Soil moisture deficit maps of New Zealand, retrieved from NIWA on 30/04/2023.

Soil moisture anomaly (mm) at 9am on 30/04/2023

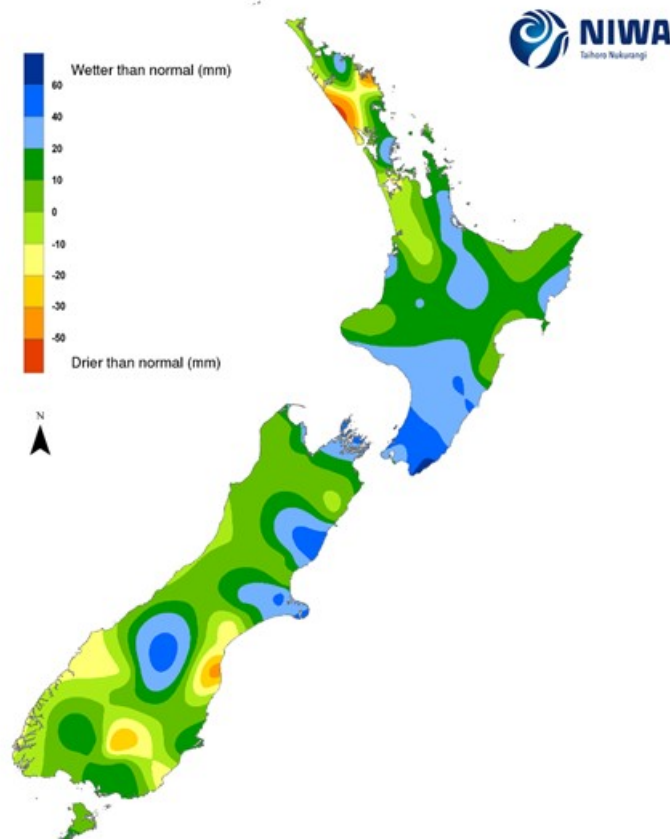






Figure 3. Soil moisture anomaly map of New Zealand, retrieved from NIWA 30/04/2023.

NIWA Seasonal Climate Outlook May – July 2023

ENSO-neutral conditions continued in April, while sea temperatures continued to increase across the equatorial Pacific, which is consistent with a developing El Niño. During early May, a northerly airflow will bring warm temperatures and tropical moisture to New Zealand, which may deliver heavy rain to

Marlborough. From early winter, southerly winds will become more common, which may result in lower than normal rainfall. This increased frequency of southerly flows is consistent with a developing El Niño.

The predictions for Marlborough/Tasman from May to July are:

-  Temperature – above average
-  Rainfall – near or above average
-  Soil Moisture – near or below average
-  River Flows – near or below average

(Report prepared by Charlotte Tomlinson)

Hydrology of Marlborough – Summary for May 2023 (E320-001-001)

Data from the Marlborough District Council's Environmental Monitoring network was primarily used in preparing this report and supplemented with data from sites operated by the Marlborough Research Centre, MetService, NIWA, and FENZ.

Executive Summary

In early May a heavy rain event occurred over much of Marlborough, primarily affecting the Pelorus and Rai Valley area with river levels above mean annual flood in both the Rai and Pelorus rivers. State Highway 6 was closed for part of the day on Saturday the 6 of May due to flooding. 230 mm of rain was recorded in 24 hours at the Tunakino rain gauge, with a return period of about five years.

Flooding also occurred in the Wairau, with two consecutive flood peaks of 2,000 m³/s on the 6 of May and 2,200 m³/s on the 10 May. Both of these flood peaks in the Wairau were slightly above the mean annual flood of 1,950 m³/s. The heaviest rainfall recorded in the Wairau was in the upper Branch catchment on the 9th of May, with 128 mm recorded in 24 hours at the Branch at Mt Morris site.

Rainfall was well above average for most parts of the region in May, with the exception of the east coast catchments where rainfall was slightly below average. At the Grovetown Park Station in Blenheim 82.4 mm of rain was recorded in May, which is 139% of the long-term average. The Branch at Recorder site recorded 398 mm total rainfall which is over three times the May average.

The moderate flooding in early May plus further rainfall later on in the month kept river flows elevated throughout the region. As a result, mean river flows for May were above average, ranging from 130-400% of the long-term average May flows.

Shallow soil moisture at the Grovetown Park site rose from 29.2% on May 1st to 37% by the 31 May, which is close to the field capacity of topsoil.

Sea temperatures around New Zealand continue to be warmer than normal, and additional moisture could bring some heavy rainfall, snow, and strong winds to New Zealand in June. In May neutral ENSO conditions continued, but with indicators trending closer to an El Niño phase. It is expected that El Niño will continue to develop throughout winter. El Niño impacts on the New Zealand climate include stronger and more frequent westerly winds over summer, leading to a higher chance for drier than average conditions on the east coast, and above average rain in the west.

Flooding in early May 2023

A heavy rain event occurred over much of Marlborough in early May, with rain watches and warnings issued by the MetService. On the 4 to 6 of May a band of moisture with tropical origins moved onto the Top of the South, with an Orange Heavy Rain Warning issued for most of the region. The main front moved eastwards over the country on Tuesday the 9 of May, bringing further rain to Marlborough. A second Orange Heavy Rain Warning was issued for this day.

The highest recorded rainfall from these events was in the Te Hoiere (Pelorus) area, with 230 mm recorded in 24 hours at the Tunakino rain gauge overnight on the 5/6th of May (a return period of about five years).

This rainfall led to peak river flows around midday on Saturday the 6 of May (see Figure 1 below). Peak flow in the Rai River at Falls was 420 m³/s, which is above the average annual flood of 330 m³/s. The Pelorus River above the campground had maximum flow of 1,200 m³/s, which is also above the average annual flood of 990 m³/s. State Highway 6 was closed for part of Saturday the 6 of May due to flooding.

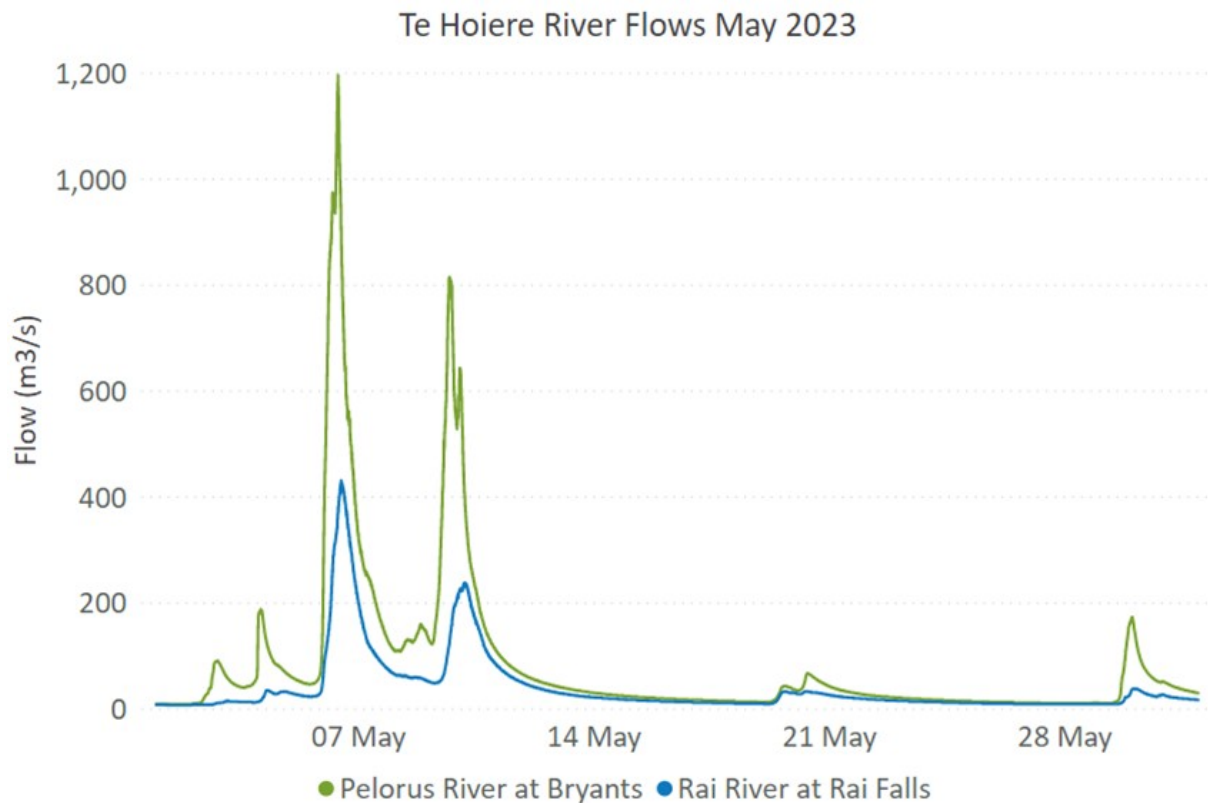


Figure 1. Pelorus and Rai river flows, May 2023.

In the Wairau catchment, the rainfall from the 4-6 of May led to minor flooding in the Wairau tributaries. None of the tributaries had flow above their average annual flood level. This led to a moderate flood peak of 2,000 m³/s in the Wairau River at Tuamarina on the 6 of May (see Figure 2 below).

The heaviest rain recorded over this extended event was in the upper Branch catchment on the 9 of May, with 128 mm recorded in 24 hours at the Branch at Mt Morris site. A slightly lower 24 hour total of 95 mm was recorded in the lower Branch catchment. The maximum flow in the Branch following this rain is still to be verified, but was above the average annual flood of 520 m³/s. The other major tributaries of the Wairau (Waihopai, Goulter, and Ohinemahuta rivers) all had maximum flows below average annual flood levels. This led to a second flood peak of 2,200 m³/s in the Wairau River at Tuamarina on the 10 of May. Both of the flood peaks in the Wairau were slightly above the mean annual flood of 1,950 m³/s.

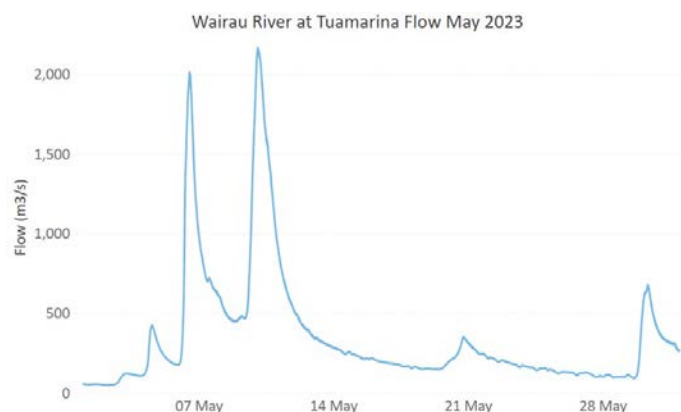


Figure 2. Wairau River at Tuamarina flow, May 2023.

Rainfall

Rainfall was well above average for most parts of the region in May (see Figure 3 below). In Blenheim 82.4 mm was recorded at the Grovetown Park Station, which is 139% of the long-term average.

The Branch at Recorder site recorded 398 mm total rainfall in May, which is over three times the May average. Most of this rain fell during the event at the start of the month.

Rain at Tunakino was twice the average for May, with 572 mm recorded. Again, most of this rain fell in the first two weeks of the month, with 230 mm recorded in just 24 hours on the 5/6th of May. At Kenepuru Head total May rainfall was 310 mm, about 100 mm higher than average.

The East Coast was the only part of the region with below average rainfall in May, with both the Flaxbourne and Te Rapa (Waima) rain gauges recording below their average monthly totals.

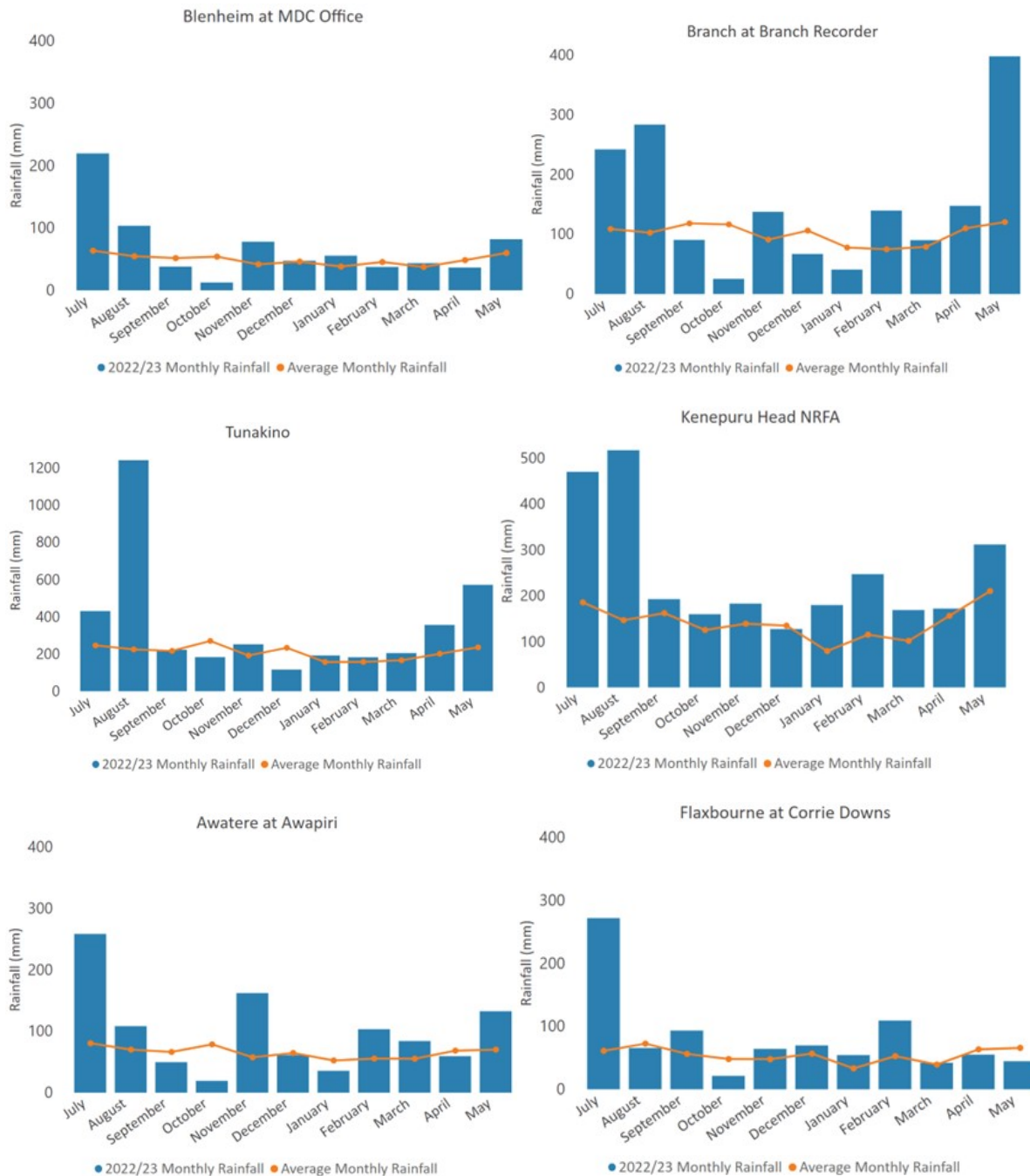


Figure 3. Monthly rainfall totals for 2022/23 from 6 key sites around Marlborough, compared to average monthly rainfall totals. Note the adjusted rainfall scale for the Tunakino and Kenepuru Head NRFA sites.

Table 1. 2022/23 monthly rainfall totals (mm) at rainfall monitoring sites in Marlborough.

Site	July	August	September	October	November	December	January	February	March	April	May
Awatere at Awapiri	258	108	50	19	162	61	36	103	84	60	133
Awatere Glenbrae NRFA	169	57	39	11	37	42	50	46	38	29	60
Beneagle at Farm Stream	261	94	78	21	95	62	78	57	47	46	83
Blenheim at MDC Office	220	104	38	13	78	48	56	38	44	37	82
Branch at Branch Recorder	242	283	90	25	137	67	41	140	90	148	398
Flaxbourne at Corrie Downs	272	66	93	21	64	70	54	109	42	55	45
Kaituna Rainfall at Higgins Bridge	287	363	87	104	192	58	101	111	103	122	254
Kenepuru Head NRFA	469	516	192	159	182	127	179	247	168	172	311
Koromiko NRFA	337	287	186	130	126	148	233	111	139	122	171
Lake Elterwater Climate	289	67	106	23	53	72	67	113	48	51	38
Lansdowne NRFA	298	239	88	25	130	50	42	87	74	113	234
Malings	201	276	91	95	151	54	14	90	186	99	206
Mid Awatere Valley NRFA	181	78	29	7	98	71	25	90	97	42	137
Molesworth NRFA	152	99	39	12	75	77	18	89	62	51	119
Omaka at Ramshead Saddle	210	141	72	20	112	65	73	73	93	65	185
Onamalutu at Bartletts Creek Saddle	459	451	142	135	160	106	88	111	111	176	402
Onamalutu at Hilltop Road NRFA	462	448	135	169	167	88	110	98	107	199	287
Picton Climate at Waitohi Domain	262	332	132	95	128	100	194	147			173
Pudding Hill NRFA	98	124	49	23	90	62	60	51	12	43	69
Rai at Rai Falls	394	913	177	193	254	65	145	151	142	299	484
Rai Valley NRFA	419	735	209	158	263	110	188	173	181	250	453
Rarangi at Driving Range	324	186	68	58	121	79	76	77	86	50	115

Site	July	August	September	October	November	December	January	February	March	April	May
Red Hills	236	251	114	28	167	113	46	140	112	174	463
St Arnaud NRFA	208	199	138	67	177	84	42	84	129	112	240
Taylor at Taylor Pass Landfill	165	87	55	15	85	48	53	46	37	56	78
Taylor at Tinpot	310	138	105	47	118	78	104	81	66	82	125
Te Rapa	378	86	133	31	71	90	52	165	93	85	40
Top Valley at Staircase Ridge	388	410	114	57	161	68	67	137	134	185	446
Tor Darroch NRFA	248	164	79	20	139	91	36	91	131	106	219
Tunakino	431	1241	224	184	253	117	192	183	206	356	572
Upper Clarence NRFA	93	34	28	14	68	47	20	22	32	26	46
Waihopai at Craiglochart	212	114	54	20	90	51	21	88	67	61	142
Waihopai at Spray Confluence	235	163	69	10	109	90	21	77	82	85	207
Waikakaho	358	6	94	54	117	87	95	57	69	74	194
Waikawa at Boons Valley							243	169	122	202	174
Wairau at Narrows	292	246	79	51	103	65	43	54	51	98	197
Wairau Valley at Southwold	310	273	77	39	102	48	41	108	56	95	227
Wakamarina at Twin Falls	318	590	183	186	228	67	100	139	128	228	376
Ward NRFA	294	65	87	24	80	67	36	115	54	57	59
Wye at Charlies Rest	215	208	95	22	114	75	43	119	89	94	225

River Flows

As mentioned above, there was moderate flooding in many rivers throughout Marlborough in early May. There was also further rainfall later on in the month, which kept river flows elevated. As a result, mean flow for the month was above average in all of the rivers listed below (Table 2). The Waihopai River had a mean flow of 53 m³/s, which is 416% of the long-term mean flow for May.

The rivers in the drier eastern catchments such as the Taylor and the Flaxbourne also had higher than average flows this month, with 132% and 196% of the long-term mean flow respectively.

A summary of river flows for May 2023 can be seen below in Table 2.

Table 2. A summary of river flows in Marlborough for May 2023.

Site Name	Mean Flow 2023 (m3/s)	Long-Term Mean Flow (m3/s)	% of long-term mean	Flow Record Begins	Catchment Area (km2)
▲					
Rai River at Rai Falls	38.52	11.83	326	1979	211
Pelorus River at Bryants	83.99	21.27	395	1977	375
Kaituna River at Higgins Bridge	10.42	4.36	239	1989	135
Branch River at Weir Intake	55.29	22.29	248	1958	551
Goulter River at Horseshoe Bend	27.89	9.67	288	2010	154
Waihopai River at Craiglochart	53.04	12.75	416	1960	745
Ohinemahuta River at Domain	2.72	1.04	262	2013	33
Are Are Creek at Kaituna Tuamarina Track	0.93	0.55	170	2007	32
Tuamarina River at Para Road	3.22	1.45	222	2004	100
Wairau River at Tuamarina	345.18	93.05	371	1960	3430
Omaka River at Gorge	3.02	0.77	394	1993	91
Taylor River at Borough Weir	0.66	0.50	132	1961	65
Flaxbourne River at Corrie Downs	0.62	0.32	196	2003	71
Awatere River at Awapiri	28.59	11.63	246	1977	983

Soil Moisture

Shallow soil moisture at the Grovetown Park site was 29.2% on 1 May, which is slightly above the average soil moisture value. Regular rainfall throughout the month saw the soil moisture rise to 37% by the 31 of May, which is very close to the field capacity for topsoil.

As of the 31 of May 2023, the map below (Figure 3) shows soils in the north of the region nearing a water surplus, while soils on the east coast are slightly below field capacity. Soils are generally holding more moisture than the historical average for this time of year (left map in Figure 3 below). The soil moisture anomaly map (Figure 4) shows that most soils are slightly wetter than normal for this time of year.

Soil moisture deficit (mm) at 9am on 31/05/2023

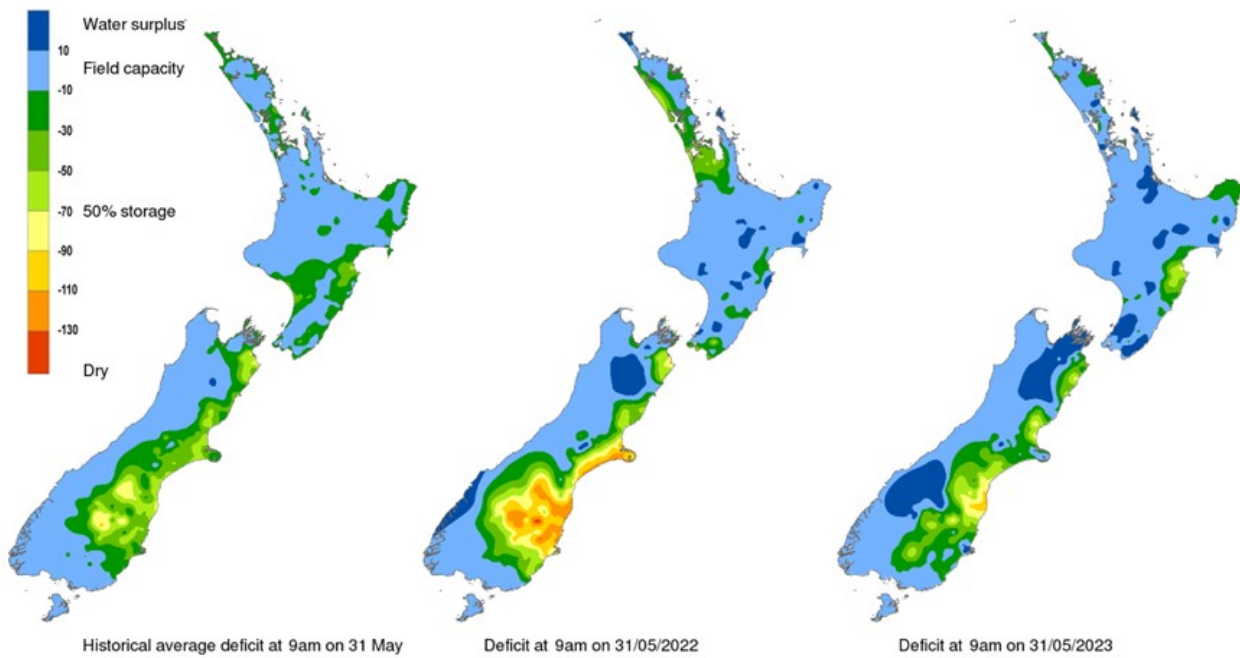


Figure 3. Soil moisture deficit maps of New Zealand, retrieved from NIWA on 31/05/2023.

Soil moisture anomaly (mm) at 9am on 31/05/2023

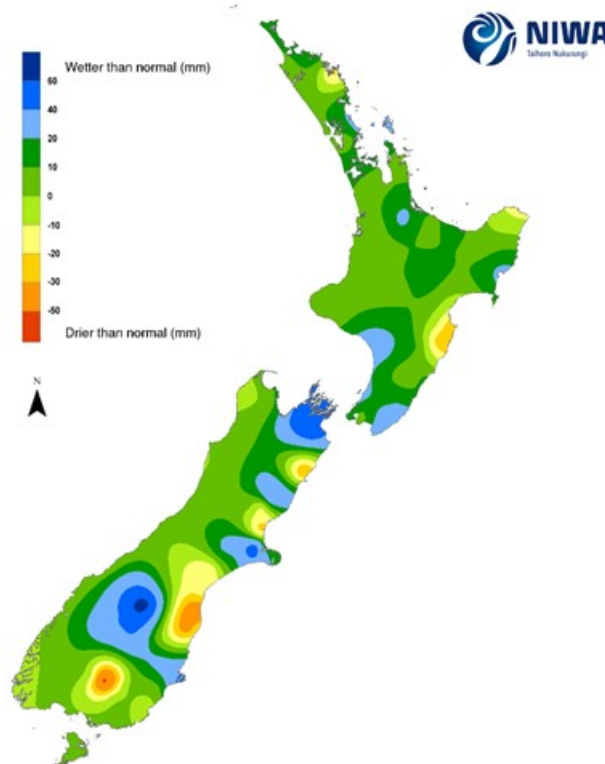


Figure 4. Soil moisture anomaly map of New Zealand, retrieved from NIWA 31/05/2023.

NIWA Seasonal Climate Outlook June – August 2023

The western Pacific continues to experience warmer than average sea temperatures. Expect this additional moisture to bring some heavy rainfall, snow, and strong winds to New Zealand in June. Higher than average air pressure is forecast to develop in the Tasman Sea during July/August, leading to more south-westerly winds, and below normal rainfall in the north and east of both islands.

Neutral ENSO conditions continued in May, with oceanic and atmospheric indicators trending closer to the El Niño threshold. El Niño will continue to develop throughout winter, with potential for a strong event developing by spring. ENSO conditions account for less than 25% of the annual variance in seasonal rainfall and temperature patterns in New Zealand, however this can still be a significant effect depending on the strength of the El Niño/La Niña phase.

El Niño impacts on the New Zealand climate include stronger and more frequent westerly winds over summer, leading to a higher chance for drier than average conditions on the east coast, and above average rain in the west. A strong El Niño event occurred in 2015/16, with dry weather occurring over much of Marlborough. For example, total rainfall recorded at Awatere at Awapiri from 1 July 2015 – 30 June 2016 was 464 mm, the lowest 12 month total recorded in the 28 years 1995-2023.

More information on the impacts of El Niño and La Niña on New Zealand's climate can be found at <https://niwa.co.nz/climate/information-and-resources/el-nino/el-nino-impacts-on-newzealand>

The predictions for Marlborough/Tasman from June to August are:

🌡️ Temperature – above average

☁️ Rainfall – near average

☘️ Soil Moisture – near average

🌊 River Flows – near average

(Report prepared by Charlotte Tomlinson)

Flood Warning and Forecasting Workshop in Hamilton (E320-000-001)

Four staff from Marlborough District Council attended the Flood Warning and Forecasting Workshop in Kirikiriroa (Hamilton) on the 22 and 23 of June. MDC staff in attendance were Charlotte Tomlinson (Hydrology), Andy White and Duc Nguyen (Rivers) and Gary Spence (Emergency Services).

The workshop was organised by the Waikato Regional Council to bring together council staff from across the country as well as MetService, NIWA, NEMA, and GNS. Opportunities for integration and the use of common systems between the regions (while maintaining local expertise) were discussed.

We heard from staff at Auckland, Gisborne and Tasman about their recent experiences with flood events, as well as an update from Greater Wellington Regional Council around improvements made to their flood forecasting capabilities. I (Charlotte) was also able to give a presentation about the 2021 and 2022 floods in Marlborough, and share the ongoing recovery efforts from these events as well as local lessons learned.

Many of the councils are facing similar issues, and there is definitely a lot to be learned from getting together at events like this, which are generally held every two years.



Figure 1. Waikato Regional Council staff explain flood management measures along the Waikato River, Friday the 23 of June.

Harbour Functions

Nautical updates

Marlborough Sounds Common Passage Plan

Currently having analysis conducted on the average number of times ferries pass within Tory Channel and the passing distances involved. This will form part of the work around the future management of the channel.

From the first data that has been presented, all passing distances are safe and there are no concerns within the current ferry operations. Having this data set will allow the team to have greater understanding around the consumption of water space.

Ferry Lay-up Maintenance

Port Marlborough has had both Kaitaki and Kaiarahi.

- Kaitaki was alongside from 15 May – 28 May.
- Kaiarahi was alongside from 10 June – 22 June.

Both vessels were conducting routine maintenance and involved large amounts of hot work. This is an activity regulated by the Harbourmaster as part of the risk management within the Marlborough Harbour.

Tory Channel Tide and Current Project

The data for the tide and current project has been validated and the team are now working on a visualisation of the data. We have been discussing with Interislander about what a useful presentation of the data means to their ferry masters. We will also do the same with Bluebridge. Our intention is to present and publicly display the information for users of the channel.

Aids to Navigation Maintenance

During the last three months, the team have conducted maintenance on all 57 5 knot buoys and 10 water ski lane buoys, plus other aids to navigation within Queen Charlotte Sound/Tōtaranui. The next focus is on routine maintenance in the Pelorus Sound/Te Hoiere.

Building Control Group

Building Control - Building Consent Authority (BCA) & Territorial Authority (TA) Activity April-May 2023.

On the 1 May the Building Code saw the introduction of increased insulation requirements to floor, ceilings and windows for new houses. The changes were introduced to increase energy efficiency of new houses which is lacking well behind other part of the world that have similar climate to New Zealand. We have known that the changes have been coming, but it seems that homeowners, builders and architects have made efforts to avoid the extra costs associated with the new healthy homes legislation. Needless to say, builders and architects have worked to lodge as many new consent applications to Council as they could before these rules took effect.

As a result of the insulation changes, building consent applications received for new housing in April reached a 10-year record. Correspondingly the number of consents for new dwellings in May reached a record 10 year low. It is likely going forward building consent applications will return to more consistent numbers.

Building Consent Authority Activity for April 2023

Total Consents issued.

- Total of 107 consents, with a total value of \$25,929,307.00
- This total included 22 new dwellings, with a value of \$15,278,607.00

Total Consents received.

- Total of 117 consents, with a total value of \$36,625,247.37
- This total included 40 new dwellings, with a value of \$36,625,247.37

Processing stats for April 2023

- 82% of building consent applications within statutory timeframes.
- 100% of code compliance certificates were issued within statutory timeframes.

Building Consent Authority Activity for May 2023

Total Consents issued.

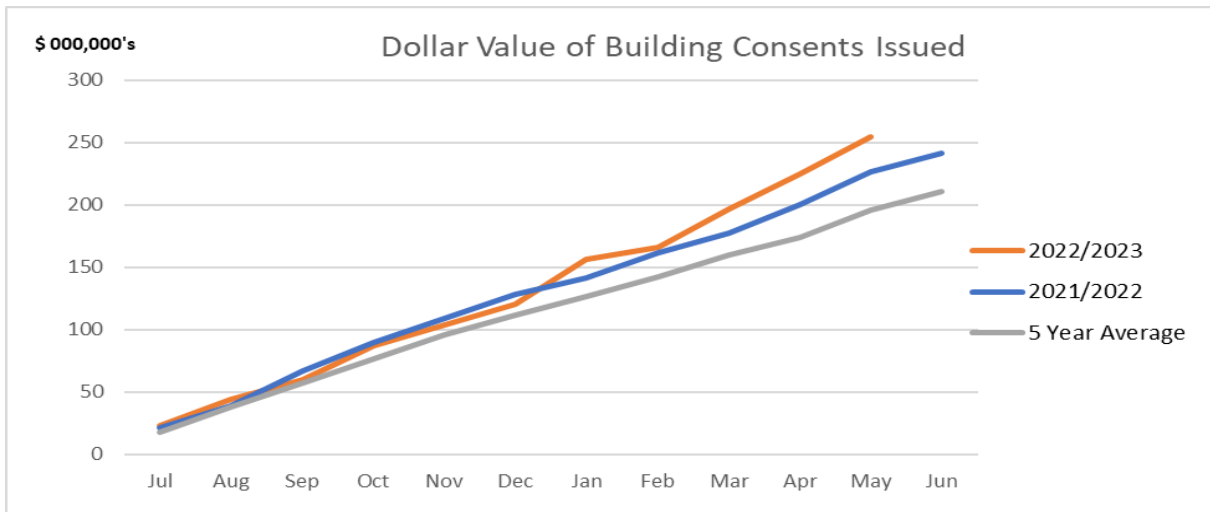
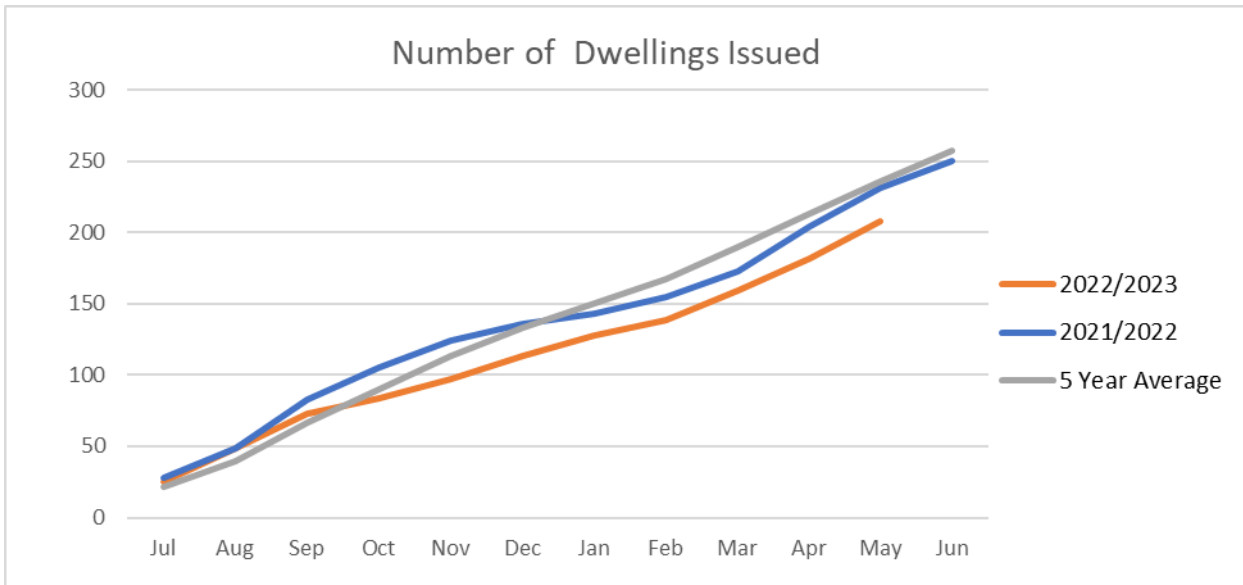
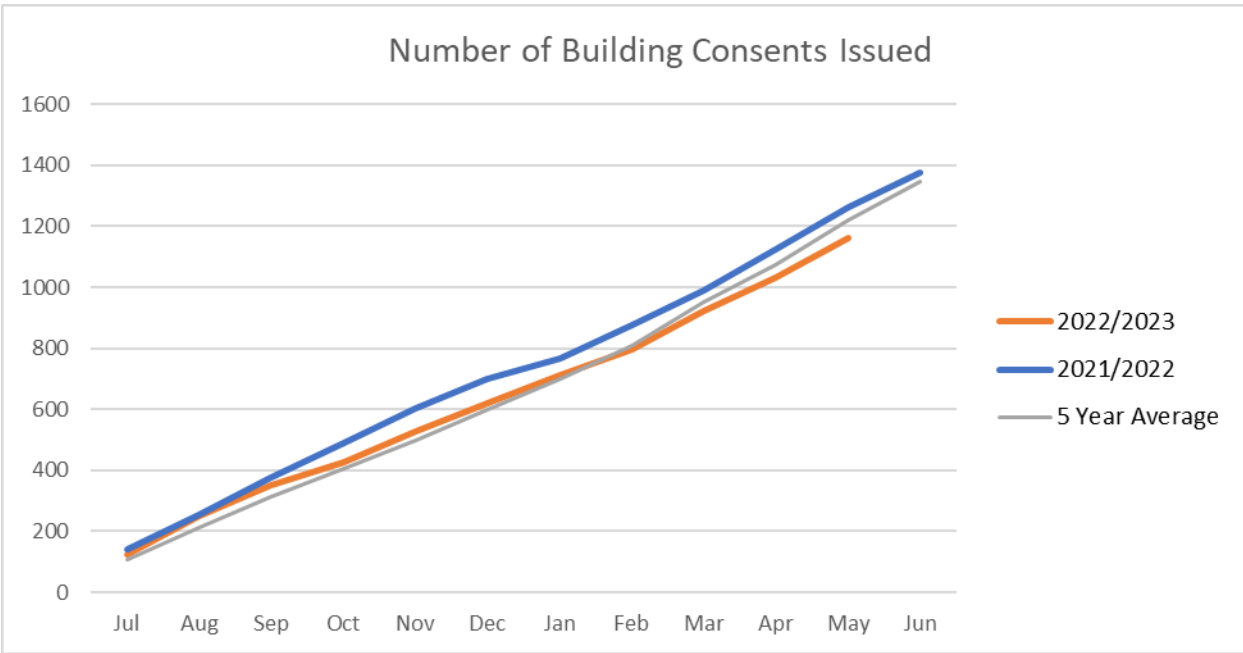
- Total of 133 consents, with a total value of \$28,820,039.00
- This total included 22 new dwellings, with a value of \$28,820,039.40

Total Consents received.

- Total of 104 consents, with a total value of \$9,768,470
- This total included 1 new dwellings, with a value of \$510,400.00

Processing stats for May 2023

- 91% of building consent applications within statutory timeframes.
- 100% of code compliance certificates were issued within statutory timeframes



Territorial Authority Statistics

Customer Related Matters (CRM)

The building compliance team has had a busy start to the first half of the year. CRM's have been dealt with as they are received and as some are complex, they take a large amount of resources and time to resolve.

CRMs Received	73
CRMs Closed	65
Notice to Fix (NtF) issued	30
Compliance Achieved via NTF	20
Prosecutions	0
Infringements	11

Earthquake Prone Buildings

There are 37 buildings in Marlborough that are listed on the Ministry of Business and Innovation (MBIE) Earthquake Prone Building register. Three of those buildings have been strengthened and will be removed from the register next month. The buildings that remain on the register have between 10-15 years to complete strengthening otherwise they face demolition.

Swimming Pool Compliance

In April with the assistance of the GIS team 317 potentially unregistered swimming pools were identified. The swimming pool compliance team have been actively notifying property owners that have potentially unregistered swimming pools of their responsibilities.

The identification of the unregistered pools is expected to generate additional workload for the building compliance team as all residential pools must be inspected every three years to ensure compliance with fencing requirements in the Building Act are adhered to. The figures below do not include the recently identified unregistered swimming pools.

<u>Total Pools 1,448</u>		Re-Check Inspection Results	
<u>Pass:</u>	69	<u>Pass:</u>	45
<u>Fail:</u>	106	<u>Fail:</u>	18
<u>Removed:</u>	11	<u>Additional Re-Check Pass:</u>	4
<u>Empty:</u>	12	<u>Additional Re-Check Fail:</u>	0
<u>Total Completed to Date:</u>	198	Re-Checks Required from this Years Inspection	
<u>% Completed for this Year:</u>	41	<u>First Re-Check:</u>	43
<u>Remaining Audits for this Year:</u>	285	<u>Additional Re-Checks:</u>	14

Alcohol Licensing

A100-04

Attached is a schedule of applications for alcohol licences issued by Marlborough District Licensing Committee under delegated authority from 28 March 2023 to 16 June 2023.

Alcohol Licences issued by the Marlborough District Licensing Committee From 28 March 2023 to 16 June 2023

Special Licenses

Licence Number	Applicant	Location	Event	Date/s
SPC/031/2023	Marlborough Vintners Collective Ltd	309 Rapaura Road, Rapaura	Post Vintage Party	22 April 2023
SPC/032/2023	Sahara NZ Ltd	13 Selmes Road, Rapaura	St Clair Half Marathon	13 May 2023
SPC/033/2023	Harlequins Rugby Club	6B Lansdowne Street, Blenheim	After-match functions	6 May till 5 August 2023
SPC/034/2023	Sahara NZ Ltd	Marlborough Lines Stadium	Home & Garden Show	7-9 July 2023
SPC/035/2023	Six Strings Ltd	Renwick Community Hall	Mid Winter concert	24 June 2023

New Premises Licences

Licence Number	Applicant	Licence Type	Premises	Expiry Date
ON/011/2023	Huia Estate Vineyards Limited	On Licence	Huia Estate Vineyards Limited	13/4/24
OFF/014/2023	Huia Estate Vineyards Limited	Off Licence	Huia Estate Vineyards Limited	13/4/24
ON/012/2023	Urban Fare Catering	On Licence	Urban Fare Café and Catering	18/4/24
CLUB/003/2023	Rapaura Tennis Club Incorporated	Club Licence	Rapaura Tennis Club	17/5/24
OFF/022/2023	Bowmans Reserve Limited	Off Licence	Bowmans Reserve	TBC
ON/021/2023	Woodbridge Traders	On Licence	Captains Daughter	29/5/24
OFF/021/2023	Woodbridge Traders	Off Licence	Captains Daughter	29/5/24
ON/022/2023	Riverside Ventures 2022 Ltd	On Licence	Riverside Hotel	TBC

Renewed Premises Licenses

Licence Number	Applicant	Licence Type	Premises	Expiry Date
ON/010/2023	Hudstone Limited	On Licence	The Phoenix Café	27/3/26
ON/014/2023	Matthew John Hewitt	On Licence	Little Amigos	2/5/26
ON/015/2023	Marlborough Tour Company	On Licence	Punga Cove	26/3/26
ON/016/2023	Seabreeze Café (2009) Limited	On Licence	Seabreeze Café	12/3/26
ON/013/2023	Polaris Group Import and Export Limited	On Licence	Noodle Corner	7/3/26
OFF/019/2023	Seresin Estate Limited	Off Licence	Seresin Estate	26/4/26
OFF/018/2023	Blank Canvas Wines Limited	Off Licence	Blank Canvas Wines	26/4/26

Licence Number	Applicant	Licence Type	Premises	Expiry Date
ON/018/2023	5Tapped Limited	On Licence (Variation)	5Tapped	8/5/25
OFF/020/2023	Mahi Holdings Limited	Off Licence	Mahi	27/4/26
OFF/009/2023	Kiwi Flavour Infusions Limited	Off Licence	Kiwi Flavour Infusions	14/2/26
ON/017/2023	E-ko New Zealand Limited	On Licence	MV Delphinus	9/5/26
OFF/016/2023	Powells Supermarket Limited	Off Licence	New World Blenheim	20/4/26
ON/020/2023	Lion NZ Ltd	On Licence	Wither Hills	28/4/26
ON/019/2023	Renwick Sport Centre Inc	On Licence	Renwick Sports and Events Centre	14/4/26
OFF/029/2023	Woodbourne 2010 Ltd	Off Licence	Woodbourne Tavern	27/5/26
ON/025/2023	Woodbourne 2010 Ltd	On Licence	Woodbourne Tavern	27/5/26
OFF/025/2023	General Distributors Ltd	Off Licence	Countdown Redwoodtown	10/6/26
ON/024/2023	Rainbow Sports Club Inc	On Licence	Rainbow Ski Area Cafe	21/6/26

Temporary Authority Premises Licenses

Licence Number	Applicant	Licence Type	Premises	Expiry Date
ON/017/2021	Riverside Ventures 2022 Limited	On Licence	Riverside Hotel	5/7/23
OFF/016/2021	P & G Limited	Off Licence	Seddon Supervalu	8/8/23
ON/053/2022	Woodbridge Traders	On Licence	Captains Daughter	2/8/23
ON/007/2022	Golden Vineyards	On Licence	Marlborough Public House	7/8/23
ON/033/2021	Boom Town Brewing Co	On Licence	Boom Town Beer Garden	23/8/23
OFF/035/2023	Malhi Enterprises Ltd	Off Licence	Big Barrel Picton	19/9/23

New Manager Certificates

Certificate Number	Applicant	Premises	Expiry Date
CERT/031/2023	Roberta Taemanu Aupau	Scoozi Pizza/Picton Beachcomber Inn	11/4/24
CERT/032/2023	Mathew Lee Price	Biddy Kates	11/4/24
CERT/022/2023	Jacob Nigel Kiwi Te Ko Collins	Blenheim Indoor Sports Centre	11/4/24
CERT/023/2023	Nicholas Ricard Smales Scantlebury	MV Odyssey	11/4/24
CERT/167/2022	Sharyn Hapuku Lesley	Big Barrel Picton	11/4/24
CERT/037/2023	Peter Gerard Heagney	Marlborough Squash Club	11/4/24
CERT/090/2022	Janet Fenemor	Redwood Tavern	17/4/24
CERT/041/2023	George Ashenhurst MacColl	Awatere Rugby Club	17/4/24
CERT/021/2023	Gaye Nicola Williamson	Spring Creek Four Square	17/4/24
CERT/042/2023	Sai Bhargav Vemula	Village India	17/4/24
CERT/050/2023	Naomi Solange Emilienne Cozzolino	Wither Hills	4/5/24
CERT/054/2023	Tahlia Madeline Graham	Cortado Picton	4/5/24
CERT/048/2023	Nicola Jane Andrews	Allan Scott Bistro	4/5/24

Certificate Number	Applicant	Premises	Expiry Date
CERT/027/2023	Angela Michelle Taylor	Cosy Corner	4/5/24
CERT/034/2023	Jamie Lyn Howe	Allan Scott Bistro	4/5/24
CERT/036/2023	Monika Johanna Maria Kerr	Blenheim Bowling Club	4/5/24
CERT/039/2023	Oceania Rose McClelland-Peterson	Pak N Save Blenheim	4/5/24
CERT/040/2023	Ian Jamieson Runnalls	Kiwi Flavour Infusions	4/5/24
CERT/051/2023	Marie Clemence Navailles	Scotch Wine Bar	4/5/24
CERT/046/2023	Christopher Wayne Williams	Awatere Rugby Football Club	16/5/24
CERT/043/2023	Iain Robert Berrie	Picton Bowling Club	16/5/24
CERT/060/2023	Wendy Trolove	Ant Moore Brands and DNA Brewing	16/5/24
CERT/028/2023	Jasmine Louise Webb	Woodbourne Tavern	16/5/24
CERT/044/2023	Sona Mikalikova	Furieux Lodge	16/5/24
CERT/052/2023	Mark Wilson Yu Diu	Avon Valley Lodge	16/5/24
CERT/049/2023	Alana Behringer	Rainbow Ski Field	16/5/24
CERT/057/2023	Dawn Lesley Hughes	Whitehaven Wines Cellar Door	16/5/24
CERT/045/2023	Helen Askwith	Bay of Many Coves Resort	30/5/24
CERT/055/2023	Giles Denis Jacques England-Brassy	Bay of Many Coves Resort	30/5/24
CERT/065/2023	Simon Desmond Dick	Awatere Rugby Club	30/5/24
CERT/067/2023	Harry James Desmond Campbell	Blenheim Golf Club	30/5/24
CERT/066/2023	Deanna Maree Black	Fairweathers Bar and Restaurant	30/5/24
CERT/070/2023	Laura Teresa Rust	Forrest Estate Wines	30/5/24
CERT/033/2023	Canada Harmony Goodlad	5Tapped	30/5/24
CERT/069/2023	Michelle Jensen	SISU Eatery and Bar	30/5/24
CERT/068/2023	Ye Zhang	Nautilus Estate Winery	30/5/24
CERT/047/2023	Holly Jessica Polkinghorne	The Pelorus Tavern	30/5/24
CERT/035/2023	Karen Justine McLeod	Picton Yacht Club Hotel	30/5/24
CERT/056/2023	Brett Anthony Gladman	Redwood Tavern	30/5/24
CERT/063/2023	Lynda Mary Dunlop	Four Square Spring Creek	19/6/24
CERT/061/2023	Terri-Lee Dawn Shirley	New World Blenheim	19/6/24
CERT/062/2023	Brigid Mary Hammond	Hampshire Vineyards	19/6/24
CERT/025/2023	Timothy Allan Creighton	The Good Home	19/6/24

Renewed Manager Certificates

Certificate Number	Applicant	Premises	Expiry Date
CERT/059/2014	Gillina Harrison	Fresh Choice Picton	7/3/26
CERT/013/2022	Lauren Elizabeth Taylor	Pelorus Mail Boat	4/4/26
CERT/075/2019	Tanya-Lee Hawlye	Tupari Wines	24/7/26
CERT/015/2022	Claire Elizabeth Colvin	The Marlborough Flyer	14/3/26
CERT/323/2015	Paul Francis Keating	MV Delphinus	8/3/26

Certificate Number	Applicant	Premises	Expiry Date
CERT/021/2017	Venkatesham Veeraiah Vemula	Village India Restaurant	20/3/26
CERT/031/2022	Stephen Brett Russell	Fromm Winery	2/5/26
CERT/006/2022	Louisa Alice Leggett	Seresin Estate	14/3/26
CERT/049/2020	Owen John Rarity	Dolce Café, Restaurant and Bar	23/4/26
CERT/051/2019	Clayton John McIntyre	Cork & Keg	8/5/26
CERT/065/2022	Tracy Ann Farrell	Countdown Springlands	30/6/26
CERT/001/2022	Troy Peter Emmett	The Good Home	16/2/26
CERT/062/2016	Sophie Elizabeth Parker-Thomson	Blank Canvas Wines Limited	22/4/26
CERT/030/2022	Johan Gunawan	Seeking employment	20/4/26
CERT/030/2019	Sonja Beardsley	The Gin Room	30/4/26
CERT/107/2016	Simon Warren Clifford Croft	Waterfront Bar & Grill	8/5/26
CERT/021/2019	Tui Marise Shepherd	Mussel Pot Restaurant	9/4/26
CERT/076/2014	Richard Maynard Marlow	Woodbourne Tavern	14/4/26
CERT/077/2014	Stacey Louise Goodwin	Woodbourne Tavern	30/5/26
CERT/078/2014	Rowan Lockyer James Ingpen	Woodbourne Tavern	14/4/26
CERT/004/2022	Maria Isabel Tapia Inzula	Giesen Wines	4/4/26
CERT/041/2022	Simon Antony Ewing-Jarvie	Havelock Hotel	11/5/26
CERT/022/2022	Vicki Loreen Williams	Captains Daughter	20/4/26
CERT/050/2019	Cheryl Burdon	Scott Base Antarctica	8/5/26
CERT/048/2019	Glenn Raymond Thomas	Tupari Wines	16/5/26
CERT/026/2022	Wikus Potgieter	Otu Wines	11/4/26
CERT/133/2021	Ukomsak Juchange	Noodle Corner	7/3/26
CERT/090/2016	Sara Elizabeth Stocker	Scott Family Winemakers Ltd	15/4/26
CERT/051/2020	Amrut Ajit Redekar	Bamboo Garden	16/4/26
CERT/017/2022	Charlesanne Qora Teres McKenzie	The Yard Bar	4/4/26
CERT/032/2022	Lindsay Kevin Benseman	Lochmara Lodge	2/5/26
CERT/025/2022	Ashton John Ireland	Ant Moore Wines Ltd	2/5/26
CERT/035/2019	Nichcha Wararatanasupa	Thai 9	16/4/26
CERT/087/2014	Christine Moseley	Various	27/4/26
CERT/040/2022	Mark Douglas Burke	MJs Café	11/5/26
CERT/162/2022	Kerri-Ann Rose Walsh	Bay of Many Coves Resort	16/1/26
CERT/092/2014	Katrina Murphy	Nautilus Estate	14/4/26
CERT/016/2022	Amanda Beatrice Tollemache	Rock Ferry Wines	4/4/26
CERT/060/2022	Tomonari Johana	Riverside Hotel	1/6/26
CERT/039/2022	Kelsey Sarah Benjamin	The Millers Rest	27/5/26
CERT/035/2022	Jamie Andrew Knight	The Millers Rest	27/5/26
CERT/046/2022	Natasha Emily Victoria Dean	Astrolabe Wines	1/6/26
CERT/058/2023	Matthew Thomas Bygate	The Good Home	25/5/26
CERT/029/2022	Danielle Nicole Funnell	Fairweathers	2/5/26

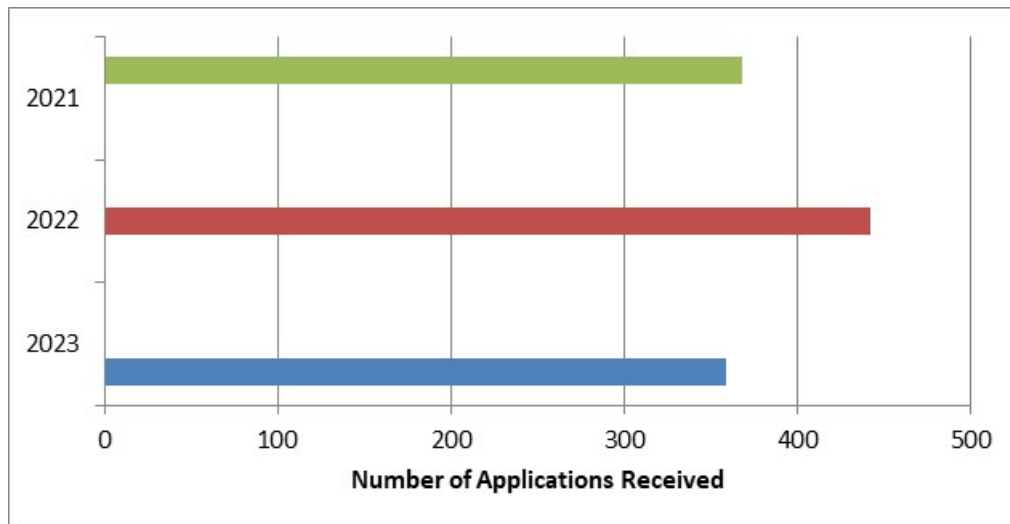
Certificate Number	Applicant	Premises	Expiry Date
CERT/029/2019	Brian James Brown	Blenheim Golf Club	16/4/26
CERT/084/2014	Virgina Anne Newman	No 1 Family Estate	5/5/26
CERT/089/2016	Jyothis Chanassert Surendran	Pak n Save	13/5/26
CERT/105/2014	Boe Raveewan Aitchison	Gohan On Scott	27/4/26
CERT/043/2022	Sarah Elizabeth Forrest Waghorn Levett	Astrolabe Wines	1/6/26
CERT/033/2022	Lucy Anne Walter	Te Whare Ra Wines	30/5/26
CERT/072/2016	Elina Vincent	No 1 Family Estate	28/4/26
CERT/118/2016	Christine Mary Bean	New World Blenheim	2/6/26
CERT/061/2022	Maryellen Chrichton	Springlands Tavern	30/6/26
CERT/066/2022	Morgana Carmel Rea Smith	New World Blenheim	22/6/26
CERT/052/2022	Cassie Maree King	Cork & Keg	22/6/26
CERT/057/2022	Christopher Oliver Brice	The Grove Tavern	1/5/26
CERT/059/2022	Francesca Waskui Popovici	Forrest Estate Wines	22/6/26
CERT/195/2014	Tracy Diana Clair Spence	New World Blenheim	17/6/26
CERT/055/2020	Manish Kumar	Super Liquor Grove Road	26/5/26
CERT/125/2016	Terence Michael Sloan	Biddy Kates	29/6/26
CERT/064/2020	Sandra Ruth Anderson	Pak n Save	4/7/26
CERT/057/2019	Elizabeth Anne Scott	Countdown Blenheim	17/7/26
CERT/114/2016	Ruth Therese Beliski	Grovetown Tavern	8/6/26

Resource Consents Section

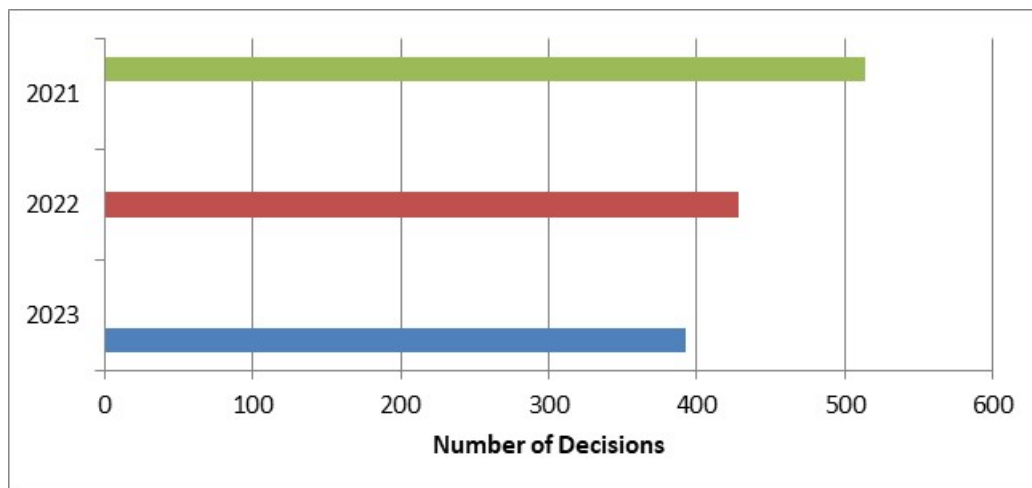
(Report prepared by Anna Davidson)

R450-004-12

The Resource Consent (RC) Team has experienced a steady start to the 2023 year. Up until June 2023 Council received **359** applications which is less than in 2022 and 2021. Of that total, **323** were new applications for resource consent. Council also received **30** applications for variations to resource consent conditions under section 127; **5** section 125 applications (extension to lapse date). In the same period in 2022 Council received **442** applications and in 2021 Council received **368** applications.



Up until June 2023 Council had issued **393** decisions. Of that total, **349** were for new applications for resource consent. Council has also issued **36** section 127 decisions (variations to resource consent conditions) and **7** section 125 decisions (extension to lapse date). In the same period in 2022 Council issued **428** decisions and in 2021 Council issued **514** decisions.



Applications in processing were at a **535** by June 2023. This is in keeping with the numbers in processing in 2022 (**579**) and 2021 (**517**).

The RC Team sent out the Winter RC Team newsletter on 1 June 2023. The newsletter had articles on engaging with Tanagata Whenua on resource Consent Applications; S 139 Certificates of Compliance; applicant details required for resource consent applications; reminders to our stakeholders in aquaculture about replacement marine farm consents; an update on Variation 1: Marine Farming and Variation 2: Finfish farming staff news; Laurie Johnson a keynote speaker at the NZPI Conference on rising to disaster challenges as planners and new staff profiles and staff news. The RCT newsletter which is always well received is widely distributed via email and is also available on the Council website. Previous issues can also be found on the Council website.

The RC team has welcomed a new Environmental Planner, Oscar Savage; a new Hearings Administrator/Administration Officer, Vicky Wiblin and a new RM Admin Officer, Ashleigh Meadowcroft. At the same time the team has farewelled Beate Gregory who retired and Sarah Silverstar who is moving to Australia.

Resource Consent Approvals Under Delegated Authority

The following applications have been approved under delegated authority pursuant to Council's Instrument of Delegation pursuant to the Local Government Act 1974, and the relevant clause thereof as identified below.

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
1.							
2.							

The following applications have been approved under delegated authority pursuant to Council's Instrument of Delegation pursuant to the Aquaculture Reform (Repeals and Transitional Provisions) Act 2004.

The applications for deemed coastal permits to vary, add or delete conditions under Sections 10(4), 20(3) or 21(3) are identified below:

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
1.							
2.							

The applications to amend the authorised space to reflect the actual space occupied by surface structures under Section 53 are identified below:

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
1.							
2.							

The following applications have been approved under delegated authority pursuant to Council's Instrument of Delegation pursuant to the Resource Management Act 1991, and the relevant clause thereof as identified below.

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
1.	104B	Flo NZ Vineyards Limited	U230157	Land Use (River Surface or Bed Activity) (x2) Water Permit (Divert Water)	Undertake works in the Waihopai Riverbed to divert the Waihopai River away or over an infiltration gallery and maintain an infiltration gallery. Extract, screen and process up to 300 cubic metres of gravel. Divert the Waihopai River away or over an infiltration gallery.	166 Guernsey Road, Waihopai Valley	06/06/2023
2.	104B	A A Webster	U230012	Coastal Permit	Coastal Permit to construct a 9 metre x 5 metre boatshed, with 2 metre wide access decking and 8 metre x 3 metre slipway in front; and to raise the existing consented fixed jetty (U140634) by 200mm.	Bay of Many Coves/Miritū Bay, Queen Charlotte Sound/Tōtaranui	06/06/2023
3.	104B	Marlborough Lodge Limited	U210779	Land Use (Activity) (x2) Discharge Permit (To Land)	Increase the restaurant capacity from 50 to 150 patrons at the Harvest Restaurant. Erect two signs. Discharge secondary treated domestic wastewater to land.	776 Rapaura Road (State Highway 62), Rapaura	06/06/2023
4.	104B	M J and E A Stewart	U230100	Coastal Permit (Mooring)	Change of consent- coastal permit to establish a single anchor leg (SALM) mooring M3886 located west of Pipitea Bay.	Pipitea Bay, Pelorus Sound/Te Hoiere	07/06/2023
5.	104B	P J Robson	U950601	Coastal Permit (Mooring)	Change conditions of consent U950601.01 to enable existing swing.	PO Box 281, Nelson 7040	07/06/2023
6.	104B	S M and LJ Gill	U230268	Discharge Permit (to Land)	Discharge secondary treated domestic wastewater to land from a new onsite wastewater system.	Nydia Bay, Pelorus Sound	07/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
7.	104B	Waka Kotahi NZ Transport Agency	U230337	Discharge (to Land)	Certificate of compliance to discharge stormwater to land during the construction and operation of two new roundabouts at Bells Road State Highway 6 intersection and Tancred Crescent State Highway 6 intersection.	Bells Road and Tancred Roads, Marlborough	07/06/2023
8.	104C	S A and S M Wilson	U950158	Coastal Permit (Mooring)	Consent to enable existing swing mooring M227.	Greville Harbour	07/06/2023
9.	104B	V P Charmon Turama, and M John	U230270	Subdivision-Boundary Adjustment	Subdivide into two allotments as a boundary adjustment.	313 and 315 Waikawa Road, Waikawa	08/06/2023
10.	104C	K Holdings Limited	U190088	New Coastal Permit	Coastal permit to reconfigure and operate an existing 6.75 degree hectare marine farm.	Tawhitinui Bay, Pelorus Sound/Te Hoiere	08/06/2023
11.	104B	C D Keenan, A J Wornall	U230248	Land Use Disturbance Land Use Activity	Excavate 20 cubic metres of material on a slope greater than 25 degrees. Establish a structure within 28 metres of the coastal marine area and within 8 metres of a property boundary.	142 Moetapu Road, Linkwater	08/06/2023
12.	104B	Gill Construction Company Limited	U220656	Land Use (Gravel Removal) (x2) Land Use (Activity)	Extracting up to 5000 cubic metres per year of aggregate of the Pelorus River. Extracting up to 3000 cubic metres per year of aggregate from the Pelorus River. Establish and operate a gravel stockpile and processing site.	Pelorus River	08/06/2023
13.	104B	A R and C D Turnbull	U210130	Coastal Permit, Structure	Extend lapse date regarding placing quarried rock as shoreline erosion protection along a 52.0 metre length of coastline fronting.	Kumutoto Bay, Queen Charlotte Sound/Tōtaranui	08/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
14.	104B	Avalon Properties Limited	U230317	New Coastal Permit & Land Use Consent	Continuation of an existing barge loading ramp fronting.	Double Bay, Kenepuru Sound	08/06/2023
15.	104B	Medway Hills Limited, D Molineux	U230350	Land Use (x4)	Installing and operating FrostBoss x4	30 Welds Hill Road, Awatere Valley	09/06/2023
16.	104B	Springfields Partnership	U230349	Land Use (Activity) (x2)	Installing and operating FrostBoss x2	38 Giffords Road, Rapaura	09/06/2023
17.	104B	David Rudd Limited	U230347	Land Use (Activity)	Installing and operating FrostBoss	579 Rapaura Road (State Highway 62), Blenheim	09/06/2023
18.	104B	P J Ryan	U230335	Discharge Permit (to Land)	Discharge treated domestic wastewater to land via a new onsite wastewater management system.	Onapua Bay, Tory Channel	12/06/2023
19.	104B	Department of Conservation	U230321	Land Use (River Surface or Bed Activity)	Occupy the streambed of an unnamed stream at/about grid coordinates (NZTM) 1698825 E and 5450918 N with a culvert.	Endeavour Inlet, Marlborough Sounds	12/06/2023
20.	104B	Rose Ag Limited and V N Rose	U230154	Land Use (Activity) (x3)	Install and operate a Frost Boss C59 frost fan with a John Deere engine. Install and operate a Frost Boss C59 frost fan with a John Deere engine. Install and operate a Frost Boss C59 frost fan with a John Deere engine.	20 Kennedys Road, Hawkesbury	12/06/2023
21.	104B	P F Sturt and M G J Route	U230331	Discharge Permit (To Land)	Discharge secondary treated domestic wastewater to land.	49 Korimako Rise, Linkwater	13/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
22.	104B	Waka Kotahi NZ Transport Agency	U230318	Land Use (Land Disturbance)	Undertake soil disturbance that does not comply with Regulation 8(3)(c) of the NES for Assessing and Managing Contaminants in Soil to Protect Human Health at two new roundabouts at Bells Road/State Highway 6 intersection and Tancred Crescent/State Highway 6 intersection.	Bells Road and Tancred Roads, Marlborough	13/06/2023
23.	104B	Medway Hills Limited	U230314	Land Use (Activity)	Install and maintain irrigation mainline infrastructure within the Medway Road Reserve at or about the following locations 1671666E 5375547N and 1672214E 5375037N adjacent to Lot 2 DP 513489.	Medway Road adjacent to Lot 2 DP 513489, Seddon	13/06/2023
24.	104B	Findlater Construction Limited	U230309	Land Use (Activity)	To remove the building line restriction registered on Lot 1 DP1571 (RT MB43/215).	187 Maxwell Road, Redwoodtown, Blenheim	13/06/2023
25.	104B	A J and R M Fairhall	U230310	Discharge Permit (To Land)	Discharge secondary treated domestic wastewater to land on Lot 1 DP 369026.	350B Moetapu Bay Road, Pelorus Sound / Te Hoiere	13/06/2023
26.	104B	Magill Family Property Limited	U220986	Subdivision (Allotment Creation)	Subdivide the four flats on Lot 20 DP 6440 into four residential allotments.	28 Faulkland Drive, Blenheim	13/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
27.	104B	G C and B E Higgins	U230149	Land Use (River Surface or Bed Activity) (x2); Water Permit (to Divert)	Undertake flood protection works in the Kaituna River including construction and maintenance of a preferential flow path, infilling erosion bays, fairway vegetation removal and vegetation establishment located adjacent to Part Section 31 Square 22 Kaituna Valley District, Section 70 Havelock Suburban District, and Part Section 43 Havelock Suburban District. Install 3 culverts in un-named watercourses located at/about 1663885E 5421445N on Part Section 42 Havelock Suburban DIST, 1663855E 5421453N on Part Section 42 Havelock Suburban DIST, and 1663238E 5420912N on Section 70 Havelock Suburban DIST. Divert the Kaituna River to form and maintain a preferential flow path located adjacent to Part Section 31 Square 22 Kaituna Valley District, Section 70 Havelock Suburban District, and Part Section 43 Havelock Suburban District.	3145 State Highway 6, Havelock	13/06/2023
28.	104B	Marlborough District Council	U230028	Land Use (Activity)	Use the new artificial turf facility on Section 2 Survey Office Plan 538965 outside of key school hours by Hockey Marlborough for active recreation purposes.	60 Nelson Street (State Highway 6), Blenheim	13/06/2023
29.	104B	A R and S A Blaikie and Kilmore Trustees Limited	U230352	Discharge Permit (To Land)	Discharge primary treated domestic wastewater to land on Lot 4 DP 4360.	917 Kenepuru Road, Mahau Sound	14/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
30.	104B	Moetapu Bay Water Scheme Limited	U230343	Water Permit (Take Water); Water Permit (Use Water)	Abstract up to a maximum rate of 4 cubic metres per day of surface water from an unnamed stream in Double Bay via an existing intake located at/about 1672731E 5431889N. Use water for domestic purposes on Lots 1 – 4 DP 11928.	Double Bay, Mahau Sound	14/06/2023
31.	104B	A D Morgan and C E L Sunbeam	U230263	Land Use (Activity); Land Use (Land Disturbance)	Construct a carport and associated excavations within the Tree Protection Zone of Notable Trees 182, 183 and 184 on Part Lot 1 DP 4787. Undertake excavation and fill in excess of 50 cubic metres to remove and re-establish a driveway and carport within the Tree Protection Zone of Notable Trees 182, 183 and 184 on Part Lot 1 DP 4787.	32 Weld Street, Blenheim	14/06/2023
32.	104B	S M Weir and Picnix Trustees Limited	U230327	Discharge Permit (To Land)	Discharge primary treated domestic wastewater to land on Lot 4 DP 377117.	5788 Kenepuru Road, Waitaria Bay, Kenepuru Sound	15/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
33.	104B	Kainga Ora	U230257	Land Use (Land Disturbance); Land Use (Activity); Subdivision (Allotment Creation)	Undertake approximately 120m ³ of excavation and 80m ³ of filling on Lot 23 DP 1815 associated with remediation of contaminated soils, installation of services, and formation of building platforms. Construct three single bedroom units on Lot 23 DP 1815 and to authorise recession plane encroachments internal to the development. Subdivide Lot 23 DP 1815 into three allotments (with Lots 1, 2 and 3 each containing a dwelling authorised by U230215.02.	170 Scott Street, Blenheim	15/06/2023
34.	104B	N J McKinnon Bristed	U230108	Land Use Consent	Land use consent to undertake landslip remediation works, including the clearance of indigenous vegetation within 8 metres of the coastal marine area and within a 10 metre setback from a natural inland wetland; operation of wheeled or tracked machinery within 8 metres of the coastal marine area; the construction of a 2.0 metre wide by 10.0 metre long deck; and the construction of a 2.2 metre high by 15.7 metre long retaining wall on and adjacent to Lot 29 DP 1153, Double Cove, Queen Charlotte Sound/ Tōtaranui.	Double Cove, Queen Charlotte Sound/ Tōtaranui	15/06/2023
35.	104B	L V Bowdler	U230338	Land Use (Land Disturbance)	Undertake excavation and filling in excess of 50 cubic metres to form dwelling foundations, a retaining wall, and service trenches on Waikawa Village Sec 26A Block.	96 Moana View Road, Waikawa	16/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
36.	104B	Ministry of Education	U230254	Land Use (Land Disturbance) (x2)	Undertake soil disturbance of potentially contaminated material that does not comply with Regulation 8(3)(c) of the NES for Assessing and Managing Contaminants in Soil to Protect Human Health on Sec 1 SO 4595. Undertake excavation and filling in excess of 50 cubic metres in the Urban Residential 2 Zone on Sec 1 SO 4595.	Queen Charlotte College, 173 Waikawa Road, Picton	16/06/2023
37.	104B	K L Morgan and S J Houston	U230232	Land Use (Activity); Discharge (to Land)	Construct a dwelling extension within 25 metres of the side boundary on Lot 53 Sec 35 Wairau West DIST. Discharge treated domestic wastewater to land via an upgraded wastewater system on Lot 53 Sec 35 Wairau West DIST.	37 Tytler Street, Grovetown, Blenheim	16/06/2023
38.	104B	S and N O'Connell	U230197	Coastal Permit	Coastal permit to replace an existing boatshed and jetty (previously authorised under resource consent U031247); and to construct a new slipway fronting Lot 57 DP 1284 in Milton Bay, Queen Charlotte Sound/Tōtaranui.	Milton Bay, Queen Charlotte Sound/Tōtaranui	16/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
39.	104B	St Leonards Limited	U230087	Water Permit (Take Water); Water Permit (Use Water) (x2)	Take Wairau Aquifer FMU water from well P28w/3832 located on Lot 1 DP 306656 up to a maximum rate of 18,470 cubic metres per year. Use water for the irrigation of up to 8 hectares of vineyard located on Lot 1 DP 306656. Use water for ancillary purposes during the month of September	State Highway 63, Conders Bend, Marlborough	16/06/2023
40.	104B	Medway Hills Limited	U230377	Land Use (Dam) Water Permit (Dam Water) Water Permit (Divert Water)	Construct a storage reservoir of up to 3.9metres in height. Dam up to 35,000 cubic metres of water within a storage reservoir. Divert sub-surface water beneath a storage reservoir.	267 Medway Road, Awatere Valley	19/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
41.	104B	Delegat Limited	U230217	<p>Land Use (River Surface or Bed Activity)</p> <p>Water Permit (Divert Water)</p> <p>Discharge Permit (To Water)</p> <p>Land Use (Land Disturbance)</p>	<p>Provide for the re-alignment of two un-named ephemeral watercourses and infill and install subsoil drainage within two ephemeral watercourses.</p> <p>Provide for the diversion of water as the result of the re-alignment of unnamed ephemeral watercourses and installation of subsoil drainage.</p> <p>Discharge water from a re-aligned ephemeral channel into Significant Wetland.</p> <p>Undertake land disturbance on Lot 1 DP 10249 within 10 metres of Significant Wetland W323 to form a re-aligned ephemeral channel and for infilling of un-named ephemeral watercourses.</p>	4718 State Highway 63, Wairau Valley, Mount Richmond Forest Park	19/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
42.	104B	Delegat Limited	U230212	Land Use (River Surface or Bed Activity) Water Permit (Divert Water) Discharge Permit (To Water) Land Use (Land Disturbance)	Provide for the re-alignment of an un-named ephemeral watercourse and infill and install subsoil drainage within three ephemeral watercourses. Provide for the diversion of water as the result of the re-alignment of an unnamed ephemeral watercourse and installation of subsoil drainage. Discharge water from a re-aligned channel into a natural inland wetland. Undertake land disturbance on Lot 1 DP 10249 within 10 meters of a natural inland wetland to form a re-aligned ephemeral channel and for infilling of un-named ephemeral watercourses.	4718 State Highway 63, Wairau Valley, Mount Richmond Forest Park	19/06/2023
43.	104B	G A and A T Bennett	U230358	Discharge Permit (To Land)	Discharge secondary treated domestic wastewater to land	Erie Bay	20/06/2023
44.	104B	Home Centre Property Holdings Limited	U230339	Land Use (Activity) Land Use (River, Surface or Bed Activity) Water Permit (Divert Water) Land Use (River, Surface or Bed Activity)	Undertake excavation and filling in the Alabama Road corridor. Construct a new vehicle crossing across the Alabama Road Drain. Temporarily divert the flow of the Alabama Road Drain. Construct a pedestrian bridge across the Polo Field Drain.	218 Alabama Road Blenheim	20/06/2023
45.	104B	Yealands Estate Limited	U220979	Subdivision (Allotment Creation)	Subdivide to create four allotments.	204 Cable Station Road, Blind River, Seddon	20/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
46.	104B	AHJ Estate Limited	U230344	Land Use (Activity) Land Use (Land Disturbance)	Construct a dwelling which will encroach the side yard setback from the northern and southern boundaries. Undertake soil disturbance and change of use that does not comply with Regulations 8(3)(c), 8(3)(d) and 8(4)(b) of the NES for Assessing and Managing Contaminants in Soil to Protect Human Health	28 Leefield Street, Blenheim 7201	21/06/2023
47.	104B	Foley Wines Limited	U230323	Water Permit (Take Water) x2 Water Permit (Use Water) x2	Take A Class Awatere River FMU water via an existing infiltration gallery(Grid Ref 1693905E 5391275 N) up to a maximum rate of 396cubic metres per day. Take A Class Awatere River FMU water up to a maximum rate of 396cubic metres per day and 1,800cubic metres per year outside of irrigation season via an existing intake Use water for the irrigation of up to 18hectares of vineyard. Use water for ancillary purposes outside of irrigation season	1321 Redwood Pass Road, Lower Dashwood	21/06/2023
48.		Ministry of Education	U230393	Land Use (Activity)	Office Alterations (new open plan office with kitchen, meeting room and office within existing room) at Renwick School	26 Havelock Street, Renwick	21/06/2023
49.	104B	M H Gifford	U210816	Land Use (Gravel Removal)	Continue to undertake quarrying activities to extract up to 25000 tonnes of gravel per year	State Highway 1	22/06/2023

	Delegation	Consent Holder	Consent No.	Consent(s) Issued	Proposal	Site Location	Date Issued
50.	104B	N J Hawes, D K and R A Adams, TG Rako	U220915	Subdivision (Allotment Creation) Land Use (Land Disturbance)	Subdivide to create two allotments. Undertake approximately 45m ³ of soil disturbance involving contaminated soils.	State Highway 63	22/06/2023
51.	104B	Atacama Limited	U230060	Land Use (Land Disturbance)	Undertake excavation and filling in excess of 50 cubic metres, within 8 metres of a stop bank and within a Level 2 Flood Hazard Area to facilitate the development of an inland freight hub and access roads.	45 Kendrick Road, Riverlands	22/06/2023
52.	104B	S R Savage, R J Savage	U230184	Land Use (Activity)	Authorise the use of an existing second dwelling.	90 Lindens Road, RD 3, Koromiko	22/06/2023
53.	104B	V J Wylaars	U230356	Discharge (Permit to Land)	Discharge secondary treated domestic wastewater to land via an upgraded wastewater system.	Atau Paparua	22/06/2023
54.		Ministry of Education	U230399	Land Use (Activity)	Install a School boundary fence along the Eastern boundary of Lot 52 Deeds 18 (school playing field) and the Eastern property 302340 , Lot 53 Deeds 18 (Council reserve). The intent is to install a 1.8 meter high fence and gates to MoE standards around the school boundary. This is typically a Pool fence type in construction.	16 Murphys Road, Blenheim	22/06/2023
55.	104B	Giesen Group Limited	U230368	Land Use (Dam)	Construct a storage reservoir.	367 Upton Downs Road, Seddon	23/06/2023
56.	104B	Parker Business Solutions Limited	U230183	Land Use (Activity)	To establish a professional office in an urban residential area.	82 Redwood Street, Redwoodtown, Blenheim	23/06/2023

Record No. 23136622