

Maungatautari Reserve Committee Agenda - 18 November 2020



Cambridge Service Centre
Kaipaki Committee Room
23 Wilson Street
Cambridge

Chairperson
Councillor Andree-Wiltens

Members

His Worship the Mayor JB Mylchreest, Cr PTJ Coles, Cr RDB Gordon, Cr GRP Webber, Phil Lyons (CE Maungatautari Ecological Island Trust), T Tauroa (Ngāti Koroki Kahukura – Pohara Marae and landowner representative, P Davies (Ngāti Koroki Kahukura – MEIT and Maungatautari Marae), A MacPherson (Waikato Regional Council), Ray Scrimgeour (Department of Conservation), Geoff Canham (Consultant)

Parawera Marae – representative to be appointed
Adjoining landowners – two representatives to be appointed

18 November 2020 04:00 PM - 05:00 PM

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To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **APOLOGIES**
Meeting Date: 18 November 2020

RECOMMENDATION

That the apologies of Member Canham for non-attendance be received



DISCLOSURE OF MEMBERS' INTERESTS

Members are reminded to declare and stand aside from decision making when a conflict arises between their role as an elected member and any private or other external interest they may have.



LATE ITEMS

Items not on the agenda for the meeting require a resolution under section 46A of the Local Government Official Information and Meetings Act 1987 stating the reasons why the item was not on the agenda and why it cannot be dealt with at a subsequent meeting on the basis of a full agenda item. It is important to note that late items can only be dealt with when special circumstances exist and not as a means of avoiding or frustrating the requirements in the Act relating to notice, agendas, agenda format and content.



CONFIRMATION OF ORDER OF MEETING

Recommendation

That the order of the meeting be confirmed.



To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **CONFIRMATION OF MINUTES**
Meeting Date: 18 November 2020

1 EXECUTIVE SUMMARY

To confirm the minutes of the Extraordinary Maungatautari Reserve Committee meeting held on 21 September 2020.

2 RECOMMENDATION

That the open minutes of the Extraordinary Maungatautari Reserve Committee meeting held on 21 September 2020, having been circulated, be taken as read and confirmed as a true and correct record of that meeting.

3 ATTACHMENTS

Extraordinary Maungatautari Reserve Committee Minutes – 21 September 2020

MAUNGATAUTARI RESERVE COMMITTEE MINUTES



EXTRAORDINARY MEETING

Time: 4.00pm
Date: Monday 21 September 2020
Meeting: Audio Visual Meeting

MEMBERS

Chairperson via Zoom

Councillor Andree-Wiltens

Members via Zoom

His Worship the Mayor JB Mylchreest,
Cr PTJ Coles
Cr RDB Gordon
P Davies (Ngāti Koroki Kahukura – MEIT and Maungatautari Marae)
A MacPherson (Waikato Regional Council)
Geoff Canham (Canham Consulting)

Staff in Attendance via Zoom

Sally Sheedy – Manager Community Services
Anna McElrea – Senior Reserves Planner
Shelley Monrad – Consultant Planner Beca
Victoria Mylchreest – Consultant Planner Beca

1 APOLOGIES

RESOLVED

E10/20/08

That the apology for non-attendance from Phil Lyons and for lateness from Councillor Webber be received.

Councillor Coles/ Councillor Gordon

2 DISCLOSURE OF MEMBERS' INTERESTS

There were no new disclosures.



3 LATE ITEMS

There were no late items.

4 CONFIRMATION OF ORDER OF MEETING

RESOLVED

E10/20/09

That the order of the meeting be confirmed.

Mayor Mylchreest/ Member Davies

5 CONFIRMATION OF MINUTES

RESOLVED

E10/20/10

That the open minutes of the Extraordinary Maungatautari Reserve Committee meeting held on 24 June 2020, having been circulated, be taken as read and confirmed as a true and correct record of that meeting.

Chairperson Andree-Wiltens / Councillor Coles

6 DRAFT MAUNGATAUTARI RESERVE MANAGEMENT PLAN – SUBMISSION SUMMARY

The Maungatautari Reserve Management Plan (RMP) is under review in accordance with the Reserves Act 1977 and section 75(6) of the Ngāti Koroki Kahukura Claims Settlement Act 2014.

In February the draft RMP was presented to the Maungatautari Reserve Committee to obtain support for the draft RMP to be presented to the Strategic Planning and Policy Committee for approval to seek community feedback.

Subsequently, the Strategic Planning and Policy Committee resolved on 5 May 2020, 2020 to approve the Draft Maungatautari Reserve Management Plan 2020 for public consultation. Consultation opened on Monday 25 May 2020 and closed on Friday 31 July 2020.

A total of 21 submissions were received, comprising 134 submission points. No submitters wished to be heard.



The report presented by Shelley Monrad, Consultant Planner- Beca, summarised the feedback received and responses from Council. The feedback was overwhelmingly in support of the Draft Maungatautari Reserve Management Plan.

Member Davies advised that MEIT were very happy with the Draft Maungatautari Reserve Management Plan.

Staff and Consultant Planners for Beca were congratulated on the work they had undertaken.

The report would now be presented to the 6 October meeting of the Strategic Planning and Policy Committee.

RESOLVED

E10/20/11

That:

- a) *The Draft Maungatautari Reserve Management Plan – Submission Summary by Shelley Monrad, Consultant Planner (Beca) be received; and*
- b) *The Maungatautari Reserve Committee endorses the Draft Maungatautari Reserve Management Plan – Submission Summary Report (Appendix 1 of this report; ECM Doc Set ID 10468371).*

Member MacPherson/ Mayor Mylchreest

There being no further business the meeting closed at 4.11pm.

CONFIRMED AS A TRUE AND CORRECT RECORD

CHAIRPERSON:

DATE:



To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **MAUNGATAUTARI ECOLOGICAL ISLAND TRUST OPERATIONAL REPORT**
Meeting Date: 18 November 2020

1 SUMMARY

Quarterly operational report from July – September 2020 will be presented by Phil Lyons, Sanctuary Mountain CE.

2 RECOMMENDATION

That the Maungatautari Ecological Island Trust Operational Report July – September 2020 (Document 10513804) be received.

3 ATTACHMENT

Maungatautari Ecological Island Trust Operational Report July – September 2020

Operational Report Maungatautari Reserve Committee Meeting July-September 2020



1. Operational update

1.1. Incursions and Breaches

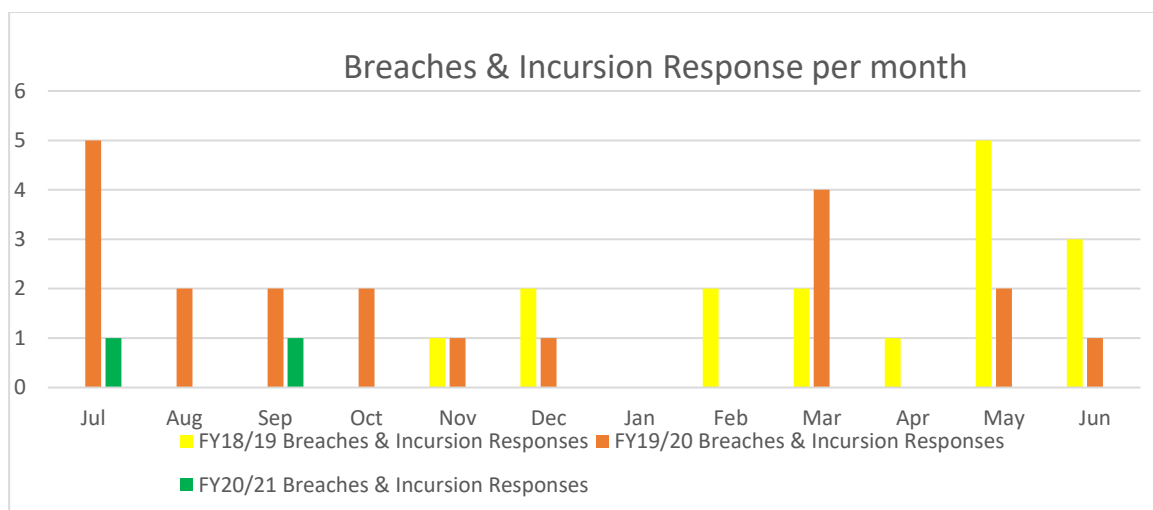
There were 2 incursions of rats and 4 fence breaches in the July 2020 to September 2020 period.

In the first rat incursion 3 ship rats were trapped along the northern fence line, at fence line 341a, 345a and 354, in July. In the second incursion a ship rat was trapped on the western fence line, at fence line 277a, in September. Incursion responses were put in place for both events and no further trapping or tracking has occurred

Two new cadets are starting work with the Operations Team on the 2nd, thanks to the support of Toi Ohomai and the Te Puni Kokori cadetship program. A ranger dedicated to the maintenance of access roads/tracks at Maungatautari will also begin work on this same date.

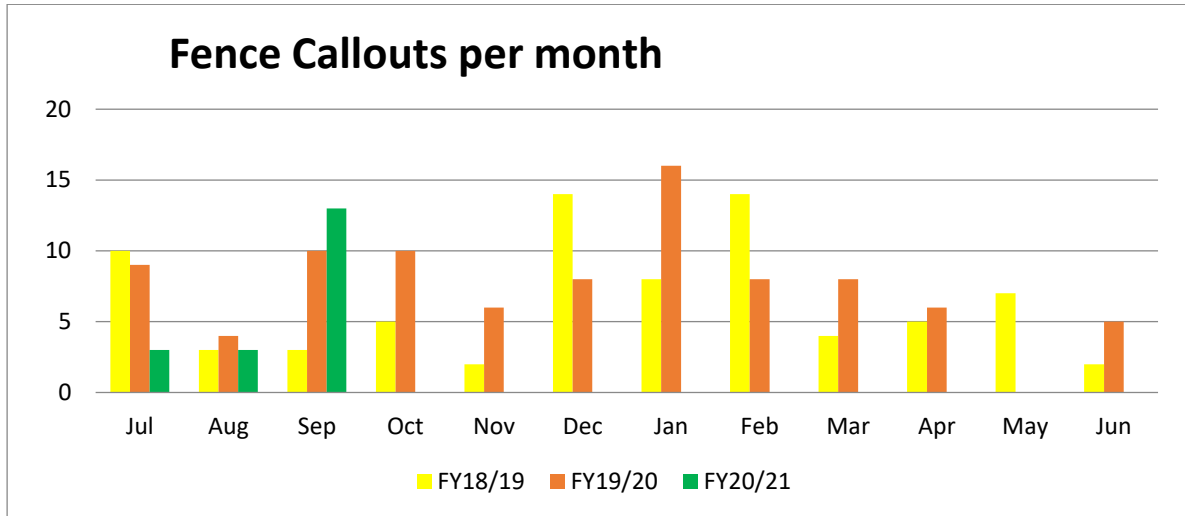
With support from kiwibank, 24 dog handlers from the Conservation Dogs Programme are coming to the maunga for a week of collaboration and training. In this week the DOC team will sweep the mountain in search of pest species including rodents, mustelids, cats, plague skinks and argentine ants.

The November Over The Mountain (OTM) monitoring round will also be undertaken to identify any further pest incursions on the maunga.



1.2 Fence management

A large tawa breached the Southern Enclosure fence on September 15th requiring the replacement of two sections.



1.3 Species Update

Lizards

A lizard survey training day and workshop was held at SMM on the 10th September with live gecko handling practice, training in how to set up the survey, lizard identification skills and data recording. The workshop had 11 SMM volunteer participants and was led by Moniqua Nelson-Tunley from Waikato Regional council. These volunteers will participate for the entire survey with the plan to train more volunteers as required. The next stage is to set up the permanent lizard monitoring sites in the Southern Enclosure, which has started in September and is due to be complete in October, with the 3-day first survey set for December 2020.

Kiwi

We investigated the possibility of using a different database as the current SMM database has a few minor issues. However, the only other current possibility (currently used by K4K and other sanctuaries) has a few technical issues reported. We will be meeting online with the app creator in October to discuss the potential of this new database but will continue to use our current database in the interim. Kiwi ranger Craig Montgomerie attended the national kiwi hui helping to establish new relationships, strengthen current relationships and learned the latest updates in kiwi research and management. SMM also received funding to employ Craig fulltime as kiwi ranger and additional track cutting funds to ensure tracks are kept clear for monitoring. The K4K Kiwi monitoring strategy on the main maunga is due to start late Nov 2020, with one in five chicks released onto transmitter and tracked regularly until they are about 1kg in body weight.

Takahe

The two male takahe Ngutu whero (Wetland) and Brodie (Coopers) were transferred to Motutapu Island and two new males Hemi (Wetland) and Pirie (Coopers) were introduced uneventfully to the females in the respective enclosures. This was an epic national takahe transfer day coordinated by the Takahe Recovery Group and involved transfers of dozens of male birds from around the country to multiple sanctuary and island sites. All went without a hitch and SMM staff and volunteers helped to transfer a total of 6 takahe on the day. As from 23 Sept the females were both sitting on nests but by late September one nest had failed, due to inexperience

of the new male. The Wetland pair are due to hatch in late October. The Tautari Wetland was closed for 2-3 weeks over the critical first few weeks of nesting to ensure the nest was not abandoned by disturbance.

Hihi

A massive effort to improve tracks for the hihi conservation officer (HCO) has been underway in August and September, including tracks that have not been attended to for several years. Many of these tracks are valley/stream tracks with quick regrowth and treefall that has made them near impassable and it is imperative that they are cleared to ensure hihi survey effort can continue. SMM has been in communication with the Hihi Recovery Group and Conservation Trust throughout this process. The first stage of this monumental task was completed in early October in time for the return of the hihi contractor, yet more work needs to be done to continue to open this track network for vital species monitoring.

Kokako

Following the recent successful kokako survey, in which 101 territorial kokako were recorded, we have received advice from the kokako specialist group that a further introduction of 20 birds from 1-2 sites should be sufficient to establish good genetic founders. Negotiations are underway with DOC for a permit and fundraising will be sought to facilitate the translocation in either 2021 or 2022.

Fungal Survey

The trial iNaturalist project for fungal survey is proving successful with over 60 recorded fungal species at Maungatautari in less than a year, some of these are research grade recordings and the project is proving useful for engaging volunteers in citizen science.

Research

Waikato University student Brody Chapman began his Peripatus research and there have been two opportunities for SMM survey volunteers to participate with the search for these unusual invertebrates at the maunga.

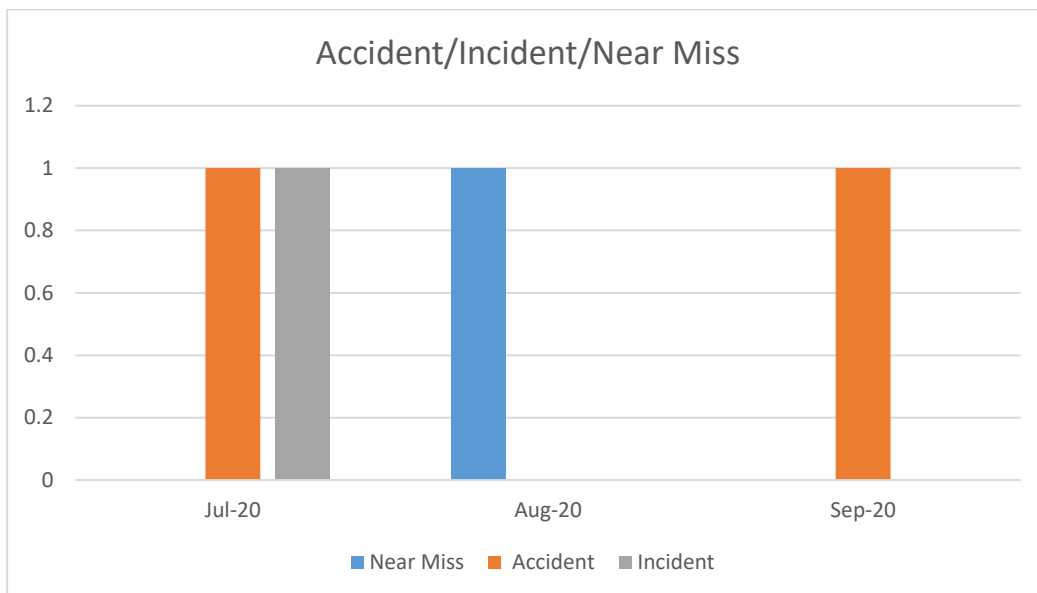
Otago University student Katrina Douglas-Withers is due to start as a summer intern at Maungatautari as a practical placement in late November 2020. The key focus will be kiwi tracking for juvenile dispersal studies and data management, with additional species work as it arises, such as lizard survey and hihi observations.

1.4 Biosecurity Plan

The biosecurity Plan review will be complete with a draft document anticipated in early December. This process is being guided by the MEIT Scientific & Technical Advisory Panel. (STAP). This review is being undertaken by Peter Russell and John Simmonds of Better Biosecurity Solutions.

2.0 Health and Safety

2.1 Accidents/Incidents/Near Miss



September 2020 YTD Summary				
Type	Near Miss	Accident	Incident	Total
Vehicle	0	0	1	1
Slip/Fall	1	1	0	2
Rescue	0	0	0	0
Aggression	0	0	0	0
Branch Fall	0	0	0	0
Equipment	0	1	0	1
Total	1	2	1	4

There have been a total of four Accidents/incidents or near misses in the first quarter.

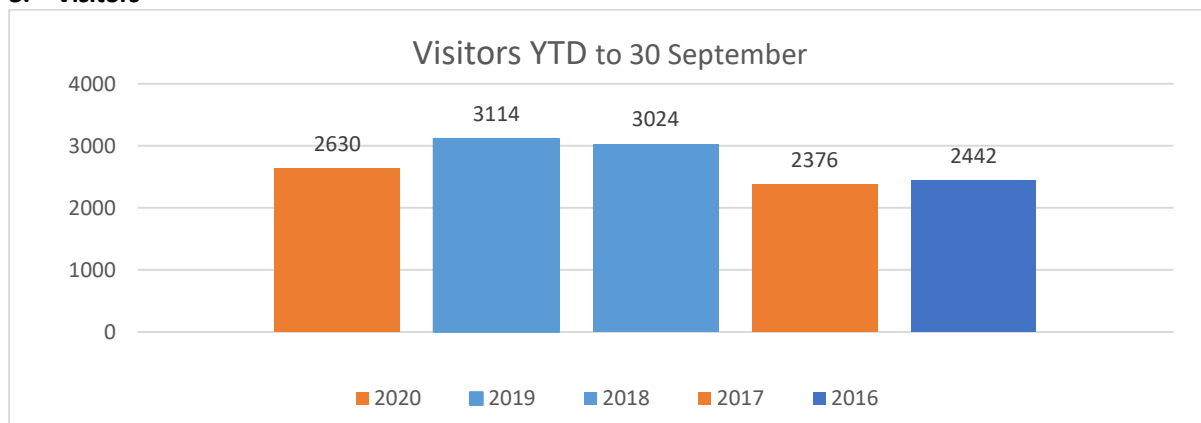
2.2 Details of Accident, Incident and near miss.

- a) Staff member drove the Mazda Ute (EDM153) across the field at the top of the race to access the fence at fence post 14. The ground was wet, and the vehicle lost traction causing it to slowly slide sideways into an adjacent fence post. Vehicle had to be towed out of the field.
- b) Contractor was leading a school group out of the SE up the 4G4 track and tripped on a protrusion from the track. The contractor put her right hand out to break her fall straining the muscles between her right middle and ring finger. She also grazed her chin slightly.
- c) The top rung of the internal fence ladder at fence post 146 had rotted and broke as a contractor from the Kokako survey team climbed over it. She sustained no injury.
- d) Staff member sustained a cut to his finger while drilling a hole into the fence hood during repair.

2.3 Opportunities for Improvement

- a) Vehicle Incident.
All staff had been advised that there was no access across land-owner fields at this time of year and he had been asked to park at the top of the race. Staff member has attended a formal performance meeting and corrective actions confirmed and recorded. Weekly update will be circulated to staff, contractors and volunteers reminding of restricted areas and Hazards.
- b) Trip.
Highlight the protrusion with flagging tape and then remove.
- c) Ladder Repair.
All ladders on the fence are being inspected and any required repairs will be carried out and recorded.
- d) Equipment Injury.
Reiterate with the team the importance of wearing gloves when cutting or drilling, or while handling broken, fence equipment.

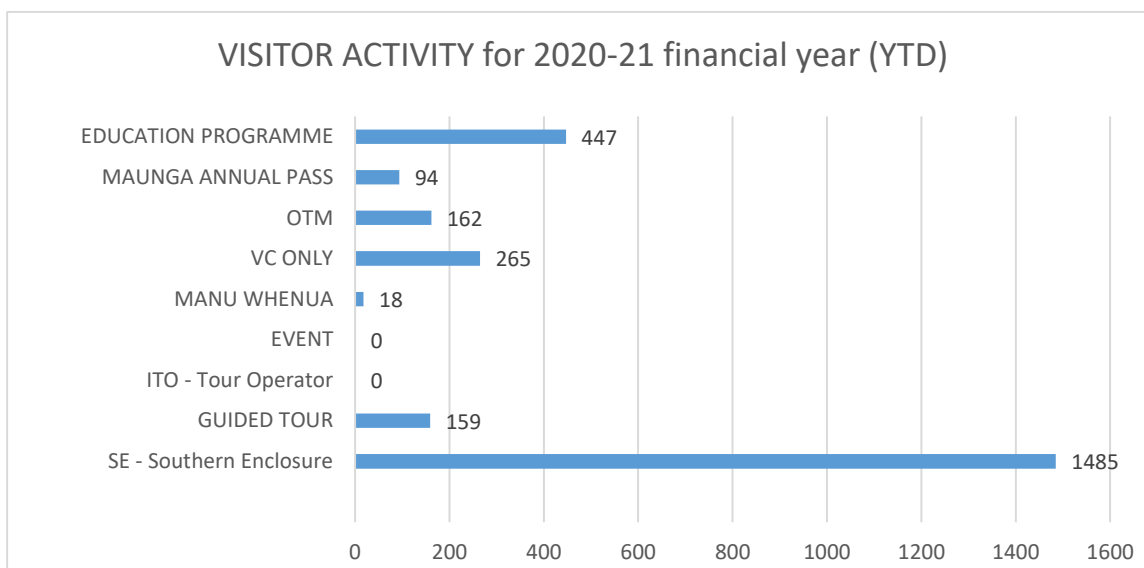
3. Visitors



Forecast visit numbers 1557. Actual 2630.

As predicted, the impact of low numbers of International visitors and restricted movements for Auckland residents during much of September is reflected in first 3-month numbers. The total visitor numbers, year to date is 69% ahead of forecast, which is 15% below 2019 numbers. International visitor accounted for 25% of visitors for first 3 months of 2019 v 2% in 2020. (702 visitors in 2019, 57 in 2020).

Visitors from the Greater Waikato area account for 61% of the YTD NZ visitors, and YTD are slightly ahead of numbers for 2019. Auckland visitors accounted for 19% of YTD visitors.



The Education Programme, while not being promoted until term 4 to enable planning and to manage COVID uncertainty, has had 447 participants YTD compared to 609 in 2019.

4. Projects

Project	Update
4.1 Education Centre.	<ul style="list-style-type: none"> • Paua Architects have been engaged to obtain competitive quotes for building contractors. MEIT has approved consultancy proposals for: <ul style="list-style-type: none"> ○ Geotech ○ Storm water and wastewater design ○ Electrical design ○ Structural Engineers ○ Fire Safety Design.
4.2 Riparian Planting	<ul style="list-style-type: none"> • Successful application submitted to WRA & WRC. Funding approved for riparian planting at Griggs Road. Riparian Developments leading the process. • Awaiting on outcome of Freshwater Improvement Fund application. Formation of a group to create an ecological corridor between Maungatautari and Pirongia is a work in progress. • Lower Mangapiko Restoration Trust has had its AGM and changed its name and will be meeting in November. • Discussions with individual landowners regarding riparian planting is still ongoing.
4.3 Kakapo	<ul style="list-style-type: none"> • Kakapo Recovery Group will be starting the fence trials in November. Janelle Ward will be attending from SMM with Gallagher Representative.
4.4 Toi-Ohomai Apprenticeship	<ul style="list-style-type: none"> • Awaiting draft MOU from Toi Ohomai.

5. Recommendations

That the Maungatautari Reserve Committee receives this report.

Phil Lyons

CEO.

MAUNGATAUTARI RESERVE COMMITTEE REPORT



To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **MAUNGATAUTARI ECOLOGICAL ISLAND TRUST – SANCTUARY MOUNTAIN UPDATE**
Meeting Date: 18 November 2020

1 SUMMARY

Phil Lyons and his team will provide a presentation on the 2020 Sanctuary Mountain Annual Report and this year's work programme.

2 RECOMMENDATION

That the Sanctuary Mountain 2020 Annual Report (Document 10513809) and Maungatautari Ecological Island Trust – Sanctuary Mountain Operating Plan for 2020/2021 (Document 10513813) be received

3 ATTACHMENTS

- Sanctuary Mountain 2020 Annual Report
- Maungatautari Ecological Island Trust – Sanctuary Mountain Operating Plan for 2020/2021

ANNUAL REPORT 2019 – 2020

Share the mauri and the mana of the maunga

PRESENTED BY MAUNGATAUTARI ECOLOGICAL ISLAND TRUST



Sanctuary
Mountain®
MAUNGATAUTARI



CEO REPORT

In early 2019, Sanctuary Mountain® Maungatautari (SMM) began to align reporting of our outcomes to the United Nations (UN) Sustainable Development Goals (SDG's) framework. SDG's are the global and local blueprint to achieve a better and more sustainable future.

This new focus has expanded our understanding of our 'why?'. As inspired kaitiaki, we are here to share the mauri and mana of the maunga. Clearly, our core business of ecological and cultural restoration underpins all that we do. However, our impact is significantly greater than this.

Early in 2020, SMM was presented with an opportunity to be part of a movement to achieve a more environmentally sustainable, prosperous, and inclusive Waikato region by 2030. This movement is known as the Waikato Wellbeing Project, a regional movement that will, over the next ten years, deliver on a collective responsibility to achieve a better and more sustainable tomorrow.

The Waikato Wellbeing Project has embedded the UN SDG's into its systems approach to foster change and collective impact.

As Aotearoa New Zealand's most ambitious and inspirational restoration project, we are proud to report that the maunga continues to contribute to this collective impact by bringing success for kiwi, takahē, kōkako and other indigenous fauna groups.

Again, this proved to be a huge draw card, with record visitor numbers to February 2020. This growth was attributed to increases in retail guided tour and inbound tour operator visitor numbers of 87% and 64% respectively. This translated into strong revenue streams derived from goods and services (tours, merchandise, and visitor self-guiding passes) and an increase in funding from grants.



In March 2020, visitors to Sanctuary Mountain® Maungatautari stopped. New Zealand and the rest of the world went into lockdown due to restrictions imposed, as we grappled with, the COVID-19 pandemic. This presented significant financial and operational challenges. As inspired kaitiaki, our team rallied and continued to provide the essential services necessary to safely maintain the integrity of the sanctuary. The government wages subsidy also enabled SMM to retain 100% of our team in full-time employment.

Although, 2020 will be indelibly etched in minds and hearts of our community, we are proud to report that despite these challenges, this has been another year of significant outcomes, delivered by the determination, skill, and dedication of our team of volunteers, contractors, partners and staff.

This report details the accomplishments of our community, the many individuals, partners, and groups who have contributed to our continued success. In 2020, these have included:

- Our dedicated volunteers;
- Waipā District Council;
- Waikato Regional Council;
- Ministry of Business, Innovation and Employment;
- Lotteries Commission;
- Te Puni Kōkiri;
- Iwi partners: Ngāti Koroki Kahukura, Ngāti Hauā, Waikato Tainui and Raukawa;
- Landowners;
- Prolife Foods Ltd, Mother Earth;
- Our ‘family of funders’ – Trust Waikato, WEL Energy Trust, NZ Community Trust; and DV Bryant Trust;
- Manaaki Whenua-Landcare Research;
- The Department of Conservation;

- Kiwis for kiwi; and
- Supporters, families, and individuals

This support has enabled our organisation to maintain operational momentum and contribute to vital capital projects, including \$627,000 funding, (\$300,000 Trust Waikato and \$327,000 Lotteries Environment and Heritage Fund), for the proposed education centre.

The Education Centre construction is due to start in late 2020 and will be built adjacent to the new carpark that was also completed in 2020 thanks to contributions from the Ministry of Business Innovation and Employment (MBIE) and Transpower.

With international tourism unlikely for the immediate future and domestic tourism working to re-establish itself, we are now in a time that requires collaboration, and strong leadership.

Newly formed partnerships are enabling exciting collaborative opportunities, including: Toi Ohomai Institute of Technology, the foundation partner in our new ranger apprenticeship programme; Kiwis for kiwi, who have significantly expanded the conservation programme of Western brown kiwi to include monitoring; Convex Innovative Packaging, who have committed to funding the planting of native trees on the maunga for the next 10 years; Pirongia Te Aroaro o Kahu Restoration Society, who are leading an exciting and bold collaboration to plant the Maungatautari to Pirongia ecological corridor; and a number of community aged care facilities who have contributed to the development of wellness programmes soon to be launched on the maunga.

Post COVID, opportunity is presented by a world that places emphasis on the

importance of equality and peoples’ rights, whilst at the same time and equally, recognizing the rights of Planet Earth.

This opportunity translates into key areas of future action for SMM. We are fostering change and collective impact by contributing to a world where:

- Maungatautari is a sacred source of spiritual pride and prestige for Waikato Māori and the wider Waikato communities.
- Endangered native fauna, waterways and flora are thriving,
- Forest recreational activities enhance the physical, mental, and spiritual wellbeing of children, adults, and older adults in our region.
- Mana whenua actively connect with and use their land for social, cultural, and economic wellbeing.
- Jobs are created and education and tourism contribute to the Waikato economy by telling our ecological and cultural story,
- Our tamariki understand the importance of their role as future kaitiaki.

2020 has been volatile, uncertain and at times complex and even ambiguous. Despite this, SMM continues to gain momentum by nurturing an organisational culture where change and continuous improvement are embraced and welcomed as the new norm.



Phil Lyons
Chief Executive Officer

CO-CHAIR UPDATE

Tukua mai kia piri Tukua mai kia tata
Tukua mai ki a Ranginui, ki a Papatūānuku
ki Maungatautari
hei korowai
hei whakaruruhau
Tuturu ka whakamaua kia tina.
Tina, haumi e, hui e, taiki e!

Let us come together, let us draw near.
Let us come closer to Father Sky and Mother Earth.
To our Mountain Maungatautari,
to provide a korowai,
to protect these children of Tane Mahuta.
We are committed to this purpose. It will be done!

E ngā mana, e ngā reo o tēnā koutou katoa.
Nau mai, haere mai
Whakarongo mai ki te pūrongo o ngā
Tia Tangata takirua o te poari a Maungatautari

We write this as part of the team of inspired kaitiaki who comprise our Maungatautari Ecological Island Trust board. We are very proud that we can report a solid year's performance by our enterprise. This is particularly significant following the unprecedented disruption in New Zealand and around the world created by the COVID-19 pandemic. In this respect we in New Zealand are fortunate to operate within a space of visionary leadership founded on professional advice and dedicated public sector workers. We are grateful for the timely, targeted wage support provided by government when, like so many other businesses, our visitor business shut down during the lockdown. This solid performance is a true testament to the inspiring leadership provided by our management and our wonderful resilient team of staff and dedicated volunteers, our landowner partners, our mana whenua, our species recovery partners and our family of funding supporters and our sponsors. We really are an interconnected collaboration of many inspired kaitiaki.

We are inspired that Sanctuary Mountain® Maungatautari (SMM) has in the last year continued to build our national role in growing resilience for the biodiversity of Aotearoa New Zealand. In this report you will hear about some of our successes: kiwi call monitoring, kōkako counts and our contributions to takahē population growth, as well as the exciting possibilities that we can grow with our emerging partnership with the Kākāpo Recovery Group: all practical illustrations of the natural heritage value we contribute to Aotearoa New Zealand and internationally. These strong environmental gains are a result of the steady well-planned biodiversity strategy which is guided by our Scientific and



Technical Advisory Panel and implemented by our people.

We view our enterprise as a shining beacon of optimism in a world where the global environmental agenda is taking centre stage. As humans we are observers, but more importantly we are contributors, to the rapid decline of mother nature: unprecedented in human history, accelerated by lifestyle, commercial and industrial activities across the globe. We have clear memories of the growing clarion calls this past year by global environmental leaders, spelling out the need for fundamental reorganisation across technological, economic, and social systems to act to reverse these threats to provide for world-wide sustainability. Thought leaders, including youth, are imploring the global community to commit to change. They remind us that mounting evidence continues to identify nature as the most enduring, effective, and cost-efficient solution to many of the worlds emerging challenges.

Our board are very proud that Sanctuary Mountain® Maungatautari, the largest secure inland pest free island in the world, constitutes a unique opportunity to exhibit strategic leadership, regionally and nationally, by turning our strategy to authentically deliver on many of the

United Nations Sustainable Development Goals¹ where everything that we do revolves around the betterment of the environment and people. Accordingly, our board is working to diversify our deliveries to include more green jobs to build resilience of our local communities and to foster the mental and physical wellbeing for our communities. The maunga provides a sense of place and belonging, while actively sequesters carbon, improves environmental quality while also growing our biodiversity halo 'beyond our fence'. Further, we are determined to ensure that the unique cultural history of the maunga and the tikanga of our mana whenua can both be celebrated in our community and add value to the special experience of all who visit SMM.

Our intention is that growing our measurement of authentic delivery in these areas will support compelling rationale for new sources of revenue to grow the financial sustainability of our project. Our strategy over the past years has been to deliberately build and strengthen our capability and resilience so that our organisation continues to evolve. This year has seen Phil and our team continue to embed a structure of systems and processes to underpin our enterprises capacity. In the next two years our focus will continue this organisational development journey;

- 2021 Growing systems and processes to support this structure.
- 2022 Transformation into a high-performing organisation that continually demonstrates excellence

We are also excited to report that we have now secured sufficient funding for our long-awaited facility to grow our

education, natural heritage, research, and hosting opportunities.

Every year we are presented with challenges. However, inspiring teamwork this year continues to deliver improved performance and resilience on many fronts. Our CEO Phil Lyons, an inspired and transformational leader in his own right continues to play an integral role in this. Our people are vital to our performance.

Finally, we offer a huge thank you to all our supporters. You inspire us and give us the courage to achieve what we have for all New Zealanders. Your support remains critical in our ability to achieve what we do. You have helped to create the foundation which underpins our ability to improve the sustainability of New Zealand's unique biodiversity and grow diverse deliveries from our enterprise for the benefit of all.

In closing we wish to thank our fellow board members for your contributions, skills, courage, and support. We look forward to another productive year working together as inspired kaitiaki of our unique sanctuary.

Nga manaakitanga

Poto Davies
Co-Chair MEIT

Don Scarlet
Co-Chair MEIT

¹ <https://sdgs.un.org/goals>

Vision and Strategic Goals

Goals

MEIT VISION AND STRATEGIC GOALS 2018 – 2026

OUR VISION

Share the mauri and the mana of the maunga



Sanctuary Mountain® Maungatautari is widely recognised as a world class conservation project.

By 2026 we will have:

- Improved our ability to keep the fenced reserve essentially free of pest mammals.
- Re-established breeding populations of native species historically present.
- Consistently monitored changes and facilitated research to improve our understanding of the maunga.
- Shared the 'lessons from the maunga' so others may benefit from our experiences.
- Contributed to the 'halo' of inter-connected habitat across the Waikato landscape.
- Maintained a motivated and diversely skilled group of volunteers.

2

Maungatautari is an internationally recognised eco-tourism destination.

By 2026 we will have:

- Developed a set of guided and interpreted tours that evocatively weave the ancient story of Maungatautari.
- Encouraged and supported our hosts and guides in telling Maungatautari stories to consistently high standards so that they will be enjoyed and remembered long after visitors have departed.
- Facilitated and contributed to a Sanctuary Mountain® Maungatautari education programme to bring about an awareness in conservation and ecological restoration.
- Encouraged and facilitated regular visitation by local residents, ensuring their continued engagement in, and support for our project.
- Created necessary infrastructure and maintained it at a very high standard enabling visitors to get the best possible experiences, be safe, and leave having been entertained and well informed.
- Promoted Sanctuary Mountain® Maungatautari as a premier destination in the itineraries of in-bound tourism operators.

3

Productive partnerships are a feature of our success.

By 2026 we will have:

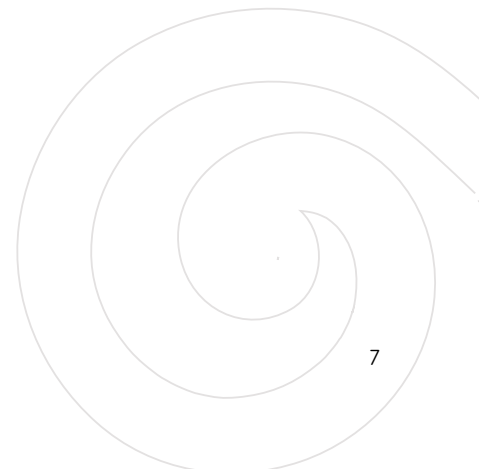
- Consolidated Sanctuary Mountain® Maungatautari as a model of effective co-governance in which kawa and tikanga of mana whenua is reflected in all that we do.
- Maintained strong relationships with our neighbouring landowners, based on mutual understandings of shared interests.
- Nurtured skills and confidence of our volunteers as conservation professionals, recognising they are the lifeblood of our organisation and underpin the on-going success of Sanctuary Mountain® Maungatautari.
- Continued to encourage and facilitate inputs and support from our partners, ensuring that their interests are appropriately reflected in our directions and activities. Our family of partners and donors will have grown, reflecting recognition of the opportunities provided by Sanctuary Mountain® Maungatautari, and the perceived value in partnering.

4

Sound financial management by the Trust and continued donor support, underpins increasing economic viability of the Sanctuary Mountain® Maungatautari project.

By 2026 we will have:

- Improved the financial viability of the project through continuing to meet the requirements of our current donors and encouraging further organisations to join our family of donors, contributing to our strategic goals.
- Grown the diversity of our revenue streams to support our sustainable, viable enterprise.
- Secured additional funds for key capital investments and maintenance, visitor facility development, education facility development, upgrading of tracks and other vital infrastructure.
- Consistently applied appropriate business practices and demonstrated transparency and accountability to our partners and stakeholders.



1

World Class

Conservation

Sanctuary Mountain® Maungatautari is an outstanding example of restoration and one of the most biodiverse forest areas on mainland New Zealand. Indeed, the sheer quality and scale (3363 hectares) of the protected area and habitat, significantly increases the viability for rare populations of fauna and flora to become self-sustaining.

This year has been another successful year, with important conservation outcomes.

The following provides narrative in relation to four key projects;

the Kivis for kiwi initiative;

Takahē recovery programme;

Hihī recovery plan;

and Kōkako recovery plan.



HIHI/STITCHBIRD (*Notiomystis cincta*)



Conservation status

Threatened – nationally vulnerable.

Sanctuary Mountain® Maungatautari, 2019/2020 the year that was

Translocations of hihi (*Notiomystis cincta*) to SMM occurred from 2009 to 2011 and the birds continue to be supported with supplementary sugar water feeding via four feeding stations on the ‘over the mountain’ track and three stations within the southern enclosure. This year, a collaboration between SMM, Waikato Regional Council and the University of Waikato funded a research intern from the University of Waikato during the summer months to monitor the feeder usage by hihi. The research intern found that manual recordings of hihi visits to the hihi were more accurate than the camera traps – mainly due to fast shutter speed,

narrow field of view and time delay between recordings. She also found that the hihi visiting the mountain feeders are different to those visiting the southern enclosure feeders, important to know for our onsite management.

The hihi survey conducted by the Hihi Conservation Officer in spring 2019 had some fantastic results with an estimated total population of 132 birds – the highest ever recorded at Maungatautari. This was due to a bumper breeding season that year and we are hopeful these excellent results continue in 2020. We were delighted to learn that the Hihi Conservation Trust secured funding for the continuation of this position for three years via the DOC Community Fund in 2019, which means SMM will be one site to benefit from her amazing survey skills for the following three years.

We were thrilled to receive funding from the Milestone Foundation that enabled us to purchase six new hihi feeders which means we could upgrade all our feeding stations on the maunga. These are easier to clean, easier to catch birds, and provide improved visibility – for both hihi and observers.

**47 birds in
2018/2019
increased to 132
birds in 2019/2020**





WESTERN BROWN KIWI (*Apteryx mantelli*) western taxon



Conservation status

At risk – declining.

Sanctuary Mountain® Maungatautari, 2019/2020 the year that was

It was another big year for brown kiwi (*Apteryx mantelli*), with the second breeding season for the SMM kōhanga project, meaning 73 additional kiwi chicks and juveniles were released to the maunga. Whilst COVID-19 halted many kiwi activities, we were lucky to reach Alert Level 2 in time to proceed with some important kiwi work at the very end of the season. This included 17 kiwi translocated from Rotokare Scenic Reserve Trust (RSRT). This was a historic occasion with Rotokare celebrating the first transfer of kiwi out of their reserve after a decade of work. Maungatautari was one of two recipients and these important chicks contribute to the founding population on the maunga.

SMM supported the transfer by sending two species staff to assist with disease screening and upskilling their vet volunteer in kiwi blood sampling. The release was celebrated with pōwhiri for representatives from Rotokare local iwi Ngāti Tupaia, RSRT, and Taranaki Kiwi Trust, who were welcomed by Maungatautari mana whenua to bless the kiwi at their release. It was great to collaborate with another sanctuary and share skills and resources to help each other.

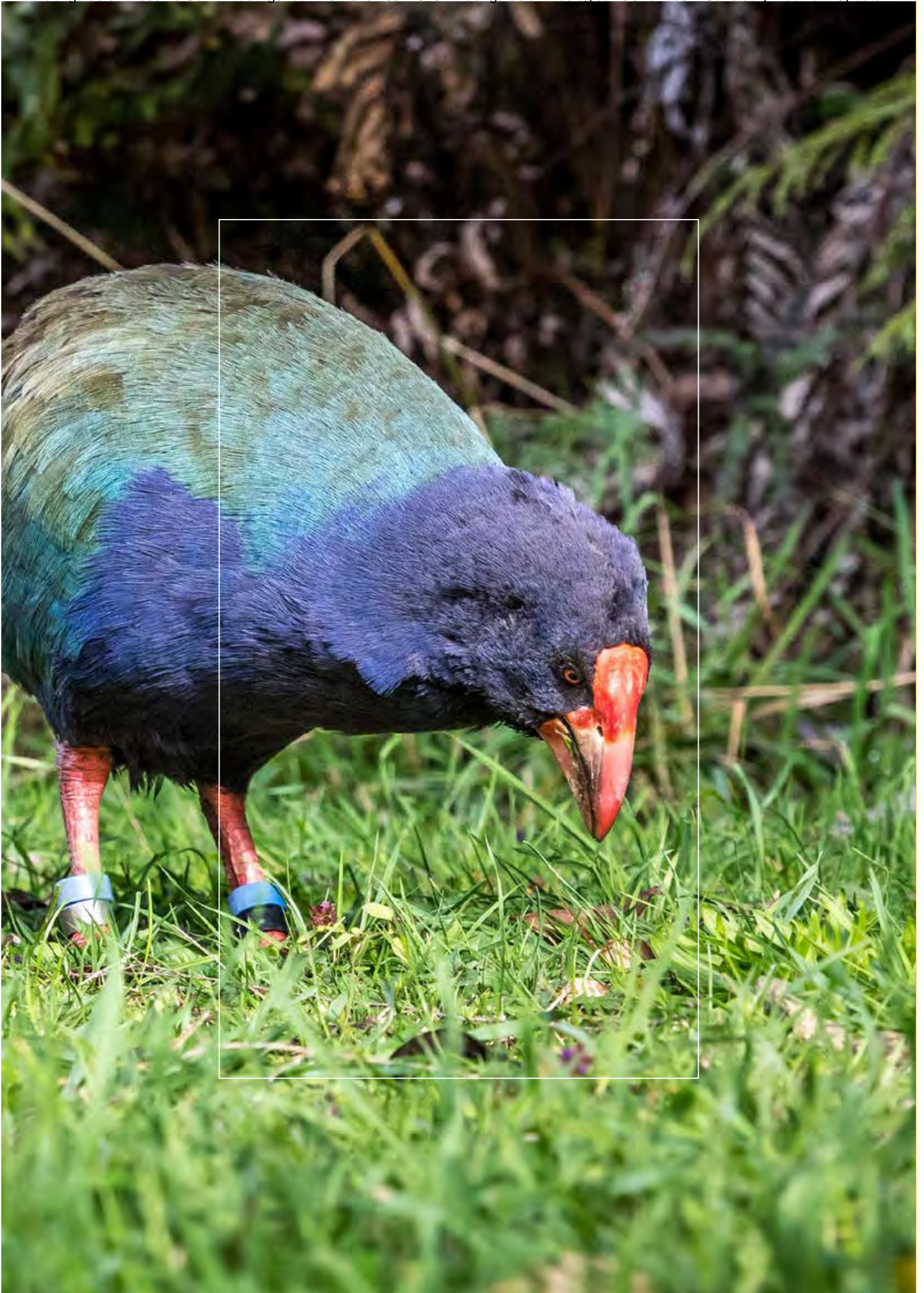
We also welcomed back kiwi dog handlers for a few days of kiwi search in the southern enclosure, as part of the original two year plan to find kiwi founders and their offspring from the southern enclosure and release them to the main mountain. The dog handlers found five more kiwi, including one important Waimarino founder 'Pikiriki'. We predict there are now less than eight brown kiwi remaining in the southern enclosure, including one pair still on transmitters.

For the second year running we have posted acoustic recorders around the sanctuary at predetermined listening sites with our kiwi ranger utilising software to analyse the data. The average kiwi call count per hour almost tripled this year compared to the previous year. This year an average of 3.8 kiwi calls were recorded per hour compared to an average of 1.4 calls per hour the previous year.

73 kiwi chicks and juveniles released

Kiwi calls tripled





TAKAHĒ (*Porphyrio hochstetteri*)



Conservation status

Nationally vulnerable.

Sanctuary Mountain® Maungatautari,
2019/2020 the year that was

This season, four new South Island takahē (*Porphyrio hochstetteri*) chicks were successfully raised by our two resident breeding pairs – a stellar effort by the takahē and our teams of caring staff and volunteers. The chicks were named at a ceremony in July with representatives from mana whenua Ngāti Koroki Kahukura, Ngāti Hauā and Raukawa, who all contributed names to the beautiful chicks.

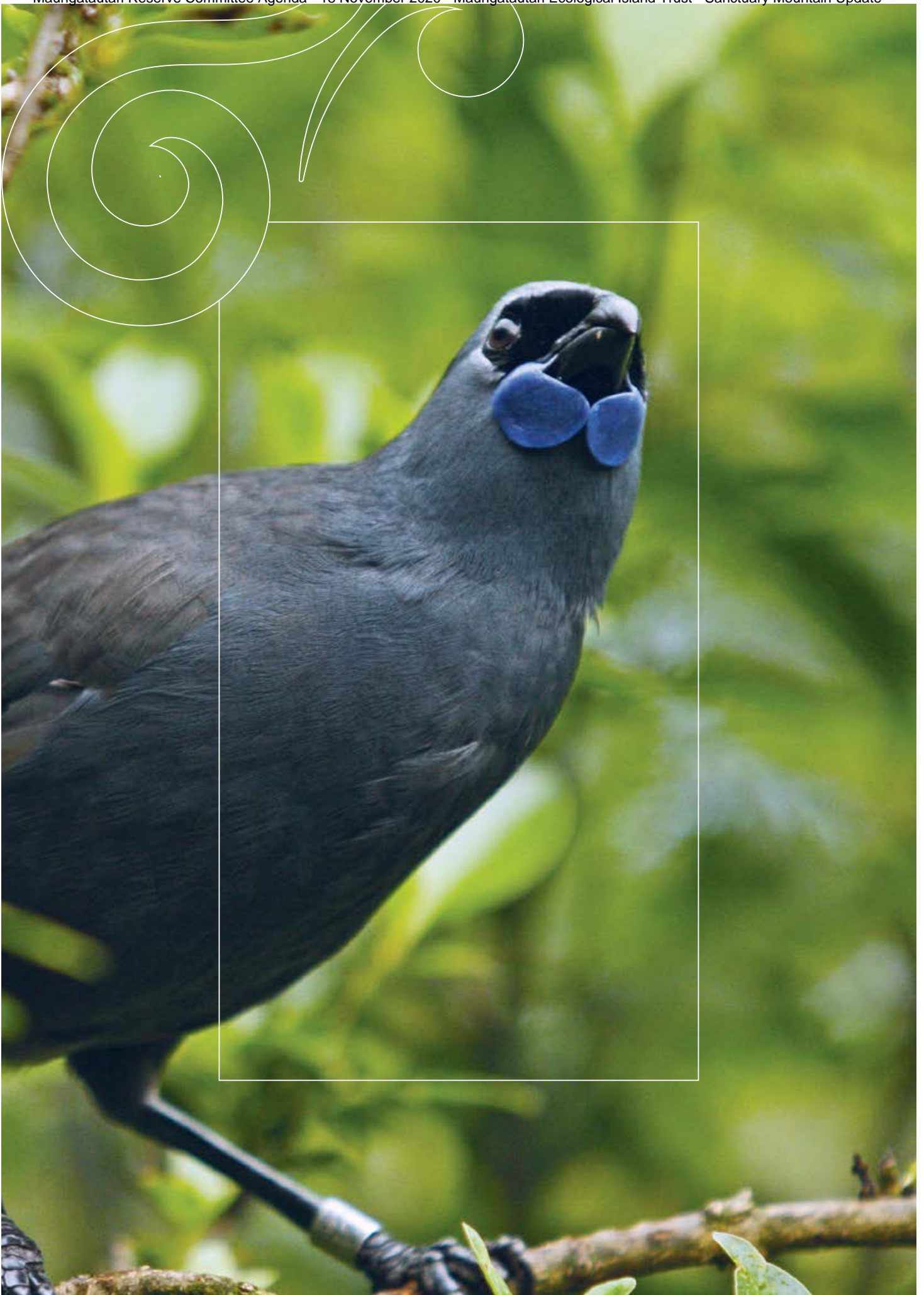
This year's chicks were named Wiripoai, Koha, Rangitara and Māhina. The ceremony was brief, but it was wonderful to hear the background stories of the names, which now connect these chicks forevermore to the whakapapa of Maungatautari iwi. These four takahē chicks, along with last year's chick 'Rob' are destined for the Burwood Bush rearing facility where they will learn further foraging skills before being sent to their future release sites.

The year ahead

We were delighted to learn from the takahē Recovery Group (TRG) that the takahē at SMM have some of the highest productivity in the country. To take full advantage of this, the TRG plan to swap out the two current males for higher genetic quality newcomers. With only 418 takahē left in the world the TRG carefully matches takahē pairs based on birds' rarity and relatedness, to optimise genetic diversity and breeding productivity.

**Four takahē
chicks successfully
hatched**





NORTH ISLAND KÖKAKO (*Callaeas wilsoni*)



Conservation status

At risk – recovering.

Sanctuary Mountain® Maungatautari, 2019/2020 the year that was

North Island kōkako (*Callaeas wilsoni*) were initially translocated to Maungatautari 2015-2016, with a total of 40 birds sourced from Mangatutu in the Pureora forest. The 2018 annual census showed an increase of kōkako settling into territories with 44 territorial birds including 19 pair. For the 2019/2020 season, we were unsuccessful in securing funding to perform the kōkako census and had to delay for a year. In early 2020 we applied for DOC Community Funding with our 'Sovereign of the Sanctuary' project, with the funding

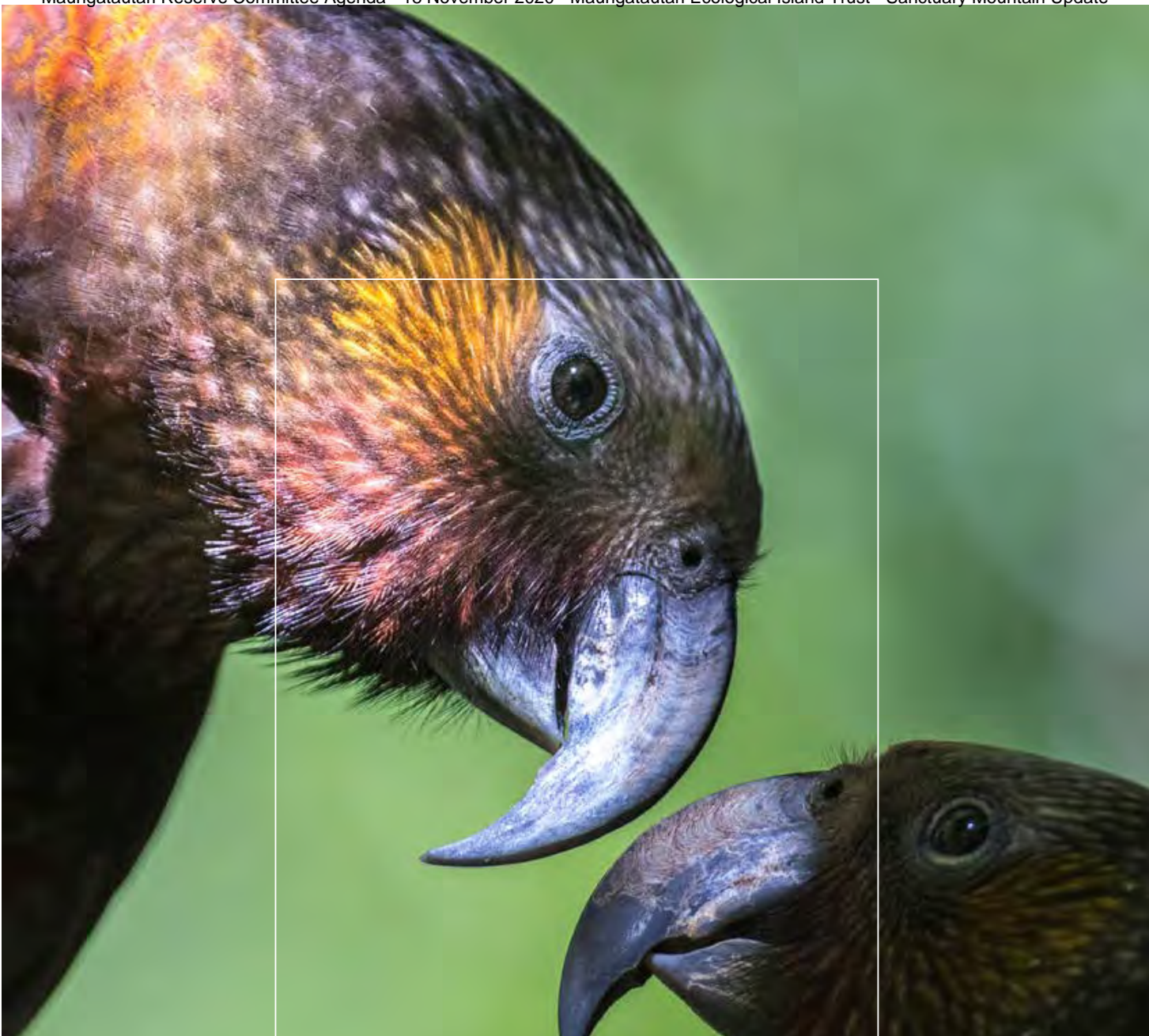
announcements occurring this July. Thankfully, we were successful for the first part of the bid, which was to fund the annual census in August 2020. As there will be two years of breeding since the last count, it is likely that we will surpass another kōkako milestone by reaching 25 pair.

The Kōkako Specialist Group (KSG) recommends that once 25 pair are established, survey effort can be reduced to every four years. Along with the numbers of pairs, we are also seeking to establish how many banded birds have bred – these are the known founders. With Maungatautari proposed to be a source site of kōkako for transfers to other sites in future, it is important that we have genetic diversity in the population: the KSG recommends 38-40 founders to establish healthy genetic diversity. Therefore, the census in 2020 will also help us determine the numbers of kōkako needed for a top-up translocation proposed in 2021 or 2022. It is exciting to think that in just a few years' time the entire maunga will have pairs of kōkako, who are thriving in the ngahere.

**Funding secured
for annual census**

**Should surpass 25
pair in next census**





NORTH ISLAND KĀKĀ (*Nestor meridionalis*)

Kākā are noisy, inquisitive and love a bit of sugar water. This year we welcomed more kākā hatched onsite, in natural tree cavity nests on the maunga – one nest was found close to the old southern enclosure entry gate. We have just over 30 banded kākā in our database, most of which were bred and released onsite, but we don't yet know if there are enough kākā breeding at SMM to be genetically diverse, or where they go when the majority leave Maungatautari each winter.

This past year there have been discussions on how to monitor and potentially increase kākā founders at SMM, with two possible projects in the pipeline. One option is to soft-release (hold temporarily in aviaries) captive bred juveniles: The North Island kākā captive management group is favouring Maungatautari as a top release site in the coming breeding seasons. Another option is to radio-track kākā in the Waikato and see whether they are dispersing and mixing with other populations: Manaaki Whenua Landcare Research (MWLR) may be conducting some tracking studies in the future in the Waikato, for which we are volunteering to assist.



INVERTEBRATES

The SMM Restoration Plan outlines key goals for many species that reside on the maunga and invertebrates have not been forgotten. The following five species have been earmarked as 'missing' from the maunga and have potential for translocation. However, we need to survey to ensure they are not already present and rebounding with the restoration of the forest.

The five species are:

- Forest Ringlet (*Dodonidia helmsii*)
At risk – relict
- Giraffe weevil (*Lasiorhynchus barbicornis*)
Not threatened
- Stag beetle (*Geodorcus auriculatus*)
At risk – relict
- Giant Stick Insect / Bristly Stick Insect (*Argosarchus spp.*)
- Velvet worms (*Peripatus species*)

Already with anecdotal observations by staff, volunteers and visitors, and formal research conducted by University of Waikato staff and students, we know that we have at least three of those species present – giraffe weevil, giant stick insect and velvet worms. We have some great research coming up in the next year that will shed further light on some of these fascinating invertebrates.

OTHER SPECIES

The rifleman translocation was postponed for a year due to COVID-19 restrictions. Surveys were completed for both planned capture sites (Pirongia and Pureora) with both sites having hundreds.

Tuatara (*Sphenodon punctatus*) are a certain sight at the Tautari Wetland Tuatarium and are breeding at our other release site, with more hatched eggs

and live juveniles found this season.

Volunteers that cleaned Artificial Cover Objects (ACOs) in the tuatarium last summer found six juveniles from approximately 9-13cm in length, as well as several skinks that we have yet to identify but are likely to be copper skinks (*Oligosoma aeneum*) or ornate skinks (*O. ornatum*). We have also been working with the lizard expert at Waikato Regional Council to create a monitoring plan for lizards in the southern enclosure. This has meant initiating a new volunteer team and a permanent survey plot will be set up in the southern enclosure in spring 2020. In the meantime, photographs from SMM staff of geckos on the fenceline have been confirmed to be forest gecko (*Mokopirirakau granulatus*) and elegant (green) gecko (*Naultinus elegans*).

Mahoenui giant wētā have been sighted every year in the past three years and are reported to MWLR. MWLR noted in mid-2019 that the sightings had tripled, which matched the expected establishment phase for Mahoenui giant wētā. Whilst two Mahoenui giant wētā have been found deceased in this time (one adult and one juvenile), the good news is that the presence of a juvenile means they are breeding onsite.

Giant kōkopu (*Galaxias argenteus*) and banded kōkopu (*Galaxias fasciatus*) were released to streams in the southern enclosure and Tautari Wetland pond in 2007. There have been no formal surveys and we are due to conduct surveys in 2021. There have been repeated sightings particularly in the wetland pond.

**Mahoenui
giant wētā
sightings
tripled**



PEST MANAGEMENT

Sanctuary Mountain® Maungatautari, 2019/2020 the year that was:

There were 13 incursions of pest species to our sanctuaries in the 2019/2020 financial year including five incursions of mice, four incursions of rats, and four incursions of weasels.

Mice

In July 2019, a mouse was trapped in the Tautari Wetland ending an incursion that had begun there in June. In February 2020 mouse tracking was identified in the southern enclosure, and, in March 2020 mouse tracking also occurred in the northern enclosure, Tautari Wetland, and the QEII block. Incursion responses were established, and all enclosures are once again mouse free. In the northern enclosure slumping of a culvert pipe, and erosion of the road above looked to have been the point of entry for the mice. Similarly, in the QEII block mice appear to have entered through a culvert when a culvert screen became detached.

Rats

Rat tracking occurred in the QEII block in April 2020 and at Waterfall 23 in May 2020. Two Norway rats were trapped in the Gorsenet area (Fence 244a and 251a) in May 2020, and one ship rat was trapped on the south east fence line (Fence 126a) in June. Incursion responses for all rats identified were established, and, after no further trapping or tracking are now complete. The fact that rat tracking occurred at Waterfall 23 was concerning as no rat had previously been identified more than 200m from the fence. In response a rodent dog handler was contracted to carry out surveys in the Waterfall track and in the Gorsenet areas in June 2020. This handler reported no strong indications for the presence of rats in these areas.

Weasels

In July and August of 2019, weasels were found in DOC traps at Rahiri 14 and Te Akatarere 24, respectively. In May 2020 weasels were also found in DOC traps at Quad 54 and Brooks 12. Incursion responses for all weasels were put in place, including the additional deployment of DOC traps, camera traps, and tracking cards, but no further tracking occurred, and no additional weasels were trapped. Following the 2019 captures three mustelid detection dog handlers were brought to the maunga. One handler reported a moderate indication for mustelid presence on the quad track, but no further evidence of weasels was found. With the assistance of Waikato Regional Council staff, samples were taken from all weasels captured and supplied to Eco Gene to undergo relatedness analysis. Although the potential for sibling relationships was reported between two pairs of the samples, no strong parent offspring relationship could be established.



FENCE AND TRACKS

Sanctuary Mountain® Maungatautari, 2019/2020 the year that was:

Fence callouts

Staff attended a total of 90 call outs in the 2019/2020 financial year, an increase on the total of 77 call outs from the previous year. Most of these call outs were caused

by vegetation impacting or becoming entangled in the surveillance wire atop the fence. Pre-emptive trimming of vegetation near the fence line, particularly of tree ferns, continues to be a focus for the Natural Heritage and Operations teams. In support of these efforts a hedge trimmer was brought to the maunga in May 2020 to clear vegetation near the fence in several areas. Arborists have also been contracted to identify trees that are likely to fall and impact the fence in the near future and the work to fell these trees continues, particularly along the northern fence line, where significant patches of dead Mānuka have been identified.

Fence damage

Only four sections of the sanctuaries Xcluder fence were destroyed in the 2019/2020 financial year which is a significant reduction from the nine sections destroyed in the previous year. However, there were four instances of damage to the fence hood, an increase from one in the previous financial year. The reduction in catastrophic damage to the fence is attributed to the proactive vegetation work which is being carried out across the sanctuary. The fact that there were no instances of damage to the fence between November 2019 and September 2020 appears to support this conclusion.

Track repairs and maintenance

Repair work to several areas of the sanctuaries access roads were conducted in the 2019/2020 financial year. In March 2020 approximately 100 tonnes of metal were lifted to a site near Maungatautari summit on the quad bike track and urgent work to maintain the quad bike track has been conducted in several places. Work on the perimeter road in the south east (approximately fence 104 to 126a) and in the south west (approximately fence 250 to 264) was conducted over the summer and this work will continue in the coming financial year.



SCIENTIFIC AND TECHNICAL ADVISORY PANEL

Sanctuary Mountain® Maungatautari, 2019/2020 the year that was:

As in previous years, the Scientific and Technical Advisory Panel (STAP), has representatives from mana whenua, universities, DOC, Manaaki Whenua Landcare Research, Hamilton Zoo and local councils and gives scientific and technical advice to the MEIT Board to inform their decisions about SMM management. The terms of reference for STAP were valuably updated in May 2020, and late in the year, retiring chair Alan Saunders (Waikato Regional Council) was replaced by John Innes (Manaaki Whenua Landcare Research). STAP this year commented on the new draft Waipā District Council Reserve Management Plan and gave ongoing advice as the new maunga Restoration Plan was worked by MEIT staff into a summarised version and a new Monitoring Plan. STAP also advised on scope of the Biosecurity Plan review that commenced this year. Pest and species management and research are core STAP agenda items, including this year's kōkako and takahē successes, possible kākāpo return, kiwi monitoring and management, GIS opportunities for pest and fence management, myrtle rust, and numerous other matters.

RESEARCH

Sanctuary Mountain® Maungatautari, 2019/2020 the year that was:

The DOC Tier 1 Monitoring Team visited SMM twice in early 2020 to complete their monitoring as part of the nation-wide biodiversity monitoring that began in 2011, with SMM contributing operations support. All data is uploaded to the Manaaki Whenua Landcare Research National Vegetation Survey databank: www.landcareresearch.co.nz/tools-and-resources/databases/national-vegetation-survey-nvs-databank

A recent publication from Manaaki Whenua Landcare Research confirms that tui have spilled over from the main mountain sanctuary to increase the population in the surrounding area – particularly up to 10km from the fence line, validating that sanctuaries have significant effects on the surrounding biodiversity (Fitzgerald N, Innes J, Mason NWH, 2019). Pest mammal eradication leads to landscape-scale spill over of tui (*Prothemadera novaeseelandiae*) from a New Zealand mainland biodiversity sanctuary (Notornis 66(4): 181-191).

Ongoing and new research projects for Maungatautari in the past year have included:

- Tree phenology (University of Waikato)
- A comparison of manual observations and trail camera detection of hihi at supplementary feeders in the southern enclosure, Sanctuary Mountain® Maungatautari. (University of Waikato, Waikato Regional Council)
- Sexual selection in the New Zealand giraffe weevil (University of Waikato)
- Understanding predation dynamics of ugly bugs: do large jaws increase predation costs for New Zealand wētā? (University of Waikato)
- Novel discriminatory tests for E. coli to improve water quality assessments (Agresearch)



2

Ecotourism

Destination

COVID-19 impact

With the visitor centre closed for two full months, including the Easter school holidays, and based on trends until closure and comparisons from the previous two years we would suggest we lost around 4,100 visitors due to the COVID-19 pandemic in the 2019/2020 financial year.

Year-end summary	2019/20	2018/19
Total visitors	14,070	17,078
NZ Visitors	10,555	13,387
International visitors	3,515	3,691
Education programme	2,817	4,672



VISITOR SERVICES

Visitor numbers were tracking well for the 2019/2020 year with total visitors at end of February (11,835 YTD), 5% ahead of the same period in 2018/2019 (11,264 YTD).

Our retail guided tour numbers YTD at end of February 2020 were 1200 v 642 for the 2018/2019 year. This was an impressive 86.9% increase with Inbound Tour Operator (ITO) guided tours YTD 598 v 364 (2018/2019) a 64% increase. A significant portion of these reflects Overseas Adventure Travel adding their AZO (Australia/New Zealand) schedule to our existing NNZ (New Zealand only) schedule for the season.

It was at this time we began to feel the beginning of the COVID-19 pandemic, with international education and ITO groups from China, USA and Japan cancelling their bookings.

March was looking to become another record month for visitors until accelerating booking cancellations of; group visits, ITO tours, and education programmes proceeded and continued after the closure of Manu Tioriori Visitor Centre on Saturday, 21 March 2020.

At that stage (YTD 13,265) visitors were still less than 1% down on 2018/2019 (YTD 13,375).

We reopened the visitor centre on Wednesday, 20 May and guided tours recommenced on 23 May - weekends only with 22 people on tours over four days. We had an encouraging 615* visitors in June, which was a good re-start given the education programme was not running.



Guiding

This year the development of two new tour products has increased the regular schedule of tour offerings we have available. The first, a seasonal highlights tour provides a shorter introductory tour experience that focuses on seasonal features of either the southern enclosure or wetland. These tours provide an informative insight into the Sanctuary Mountain® Maungatautari project before visitors continue to self-guide and experience more within the southern enclosure. The second, a unique kiwi experience tour. Offered during the kiwi hatch and release season, visitors are invited to be part of a kiwi chick's journey towards release on Maungatautari. This tour provides the opportunity for kiwi conservation advocacy as part of our partnership with Kiwis for kiwi as a Kōhanga kiwi site.

Our dedicated team of expert guides has also grown this year as we welcomed five new volunteer guides. Each new volunteer guide is working at their own pace through a mentored training programme and spending time gaining personal experiences of the sanctuary to prepare to share the mauri and mana of the maunga with our visitors.

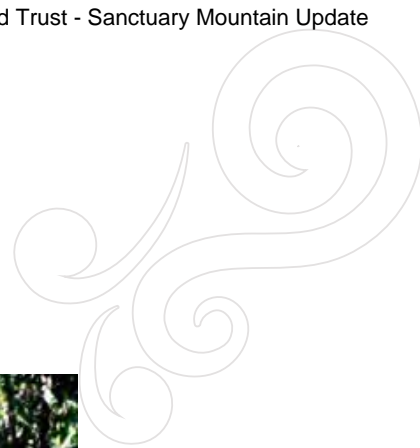
64% increase in guided tour numbers

86.9% increase in ITO guided tours

5% increase in overall visitor numbers

*June numbers in 2019, excluding the school programme, were 440.





TOURISM/MARKETING



For six years our TripAdvisor status has been five-stars, giving a clear indication that our visitors are having experiences that exceed their expectations.

We receive feedback from visitors through Rezdy (booking programme) too, and this shows that 97.7% are very satisfied to extremely satisfied with their visit. 0% of people were not satisfied.

As part of this survey we also ask people to answer the question “How likely is it that you would recommend Sanctuary Mountain® to a friend or colleague?”. The result of this question provides the Net Promoter Score (NPS). The NPS measures customer experience and can predict business growth. This proven metric transformed the business world and now provides the core measurement for customer experience management programmes the world round. The score for Sanctuary Mountain® Maungatautari for 2019/2020 is 86, which is excellent considering the global benchmark for the year is 31.

Marketing highlights

- NZ Life & Leisure – Back full-page article
- Young Adventuress visit – Travel influencer with 201,000 followers on Instagram
- The Style Jungle visit – Travel influencer with 12,500 followers on Instagram
- Sunday TV Show – War of the Wild
- Air NZ Safety Video – Seen on YouTube 1.8 million times
- Mother Earth Partnership – product on supermarket shelves nationwide
- What Now – Our Kiwi Ranger taking a young host on a kiwi experience
- School Holiday specials – over 900 bookings and 400 people going through the enclosure over four days.
- Feature articles with Stuff – 2 x full page spreads in Sunday Star times and online
- Meditation on the Maunga – Two events sold out
- Christmas on the Maunga – Over 300 people visited in one day

Social media	30 June 2020	30 June 2019	Difference
Facebook	7,250	6,396	854 new likes or 13.4% increase
Instagram	1,799	1,301	498 new likes or 37.3% increase
Twitter	948	873	75 new followers or 8.6% increase
Website	2019/2020	2019/2020	Difference
Total users	46,168	35,669	+10,499 or 29.43%
Pageviews	204,992	174,451	+30,541 or 17.51%

3

Productive Partnerships





Waikato Regional Council recognises Sanctuary Mountain® Maungatautari as a regionally significant project. It has supported the Maungatautari Ecological Island Trust in its management of the project since 2009. The Council continues its involvement with the Trust as a partner, providing funding to support the maintenance of the enclosed area as an essentially pest-free sanctuary. In addition to contributing to the development of this strategic plan Council staff also provide technical advice through appropriate forums, including the Scientific and Technical Advisory Panel and the Maungatautari Reserve Committee.



Sanctuary Mountain® Maungatautari (SMM), given the nature of the project, will make a significant long-term contribution to increase the population of New Zealand's national bird, North Island Western brown kiwi. The Kiwis for kiwi (K4K) strategy is to reverse the estimated 2% annual decline in the kiwi population to a 2% increase, by releasing 500 kiwi chicks into the sanctuary by 2022. These chicks will be hatched from eggs lifted through Operation Nest Egg (ONE) from wild kiwi across Taranaki, Tongariro and Whanganui, which is the natural range of this kiwi species. Released onto predator-free SMM, they will grow and by three years old, find a mate and start breeding. They will remain on the maunga as a permanent breeding population.



The Department of Conservation (DOC) has provided technical advice and support to the Trust since its inception. In 2019, DOC awarded \$92,000.00 towards fence maintenance by way of the community contestable fund. Over the years, the commitment from DOC has been significant in terms of staff time and internal resource allocation. This has included technical advice and support to the Scientific & Technical Advisory Panel and staff have also contributed significant time into both takahē and kōkako translocations.



Waipā District Council has clearly demonstrated its commitment to protecting and restoring the environs of Maungatautari and this year extended its financial support for an additional three years. Waipā remains committed to administering and managing the reserve and giving effect to the principles of the settlement between the Crown, NKK and stakeholder iwi and will continue to resource these endeavours.

Council has established an advisory committee to assist with this purpose. Maungatautari today remains a significant site of natural heritage and represents a very significant percentage (around 46%) of the remaining intact indigenous forest in the Waipā District. Waipā District Council remains committed to the protection and restoration of this 'community asset'.



Thank you to Mother Earth for their support of our education programme. Support from Mother Earth has helped enable the continued development of our programme and our ability to provide fully facilitated educational experiences.

A highlight this year has been the Kaitiaki Film Competition. Together with Mother Earth, SMM encouraged schools to send us a short film telling us about what they were doing to look after their local environment and why conservation is important to them. Congratulations to the two winning schools, Glenview Primary School and Point England School. Both winning schools have been invited to join us for a special kiwi release experience





Our Volunteers

Sanctuary Mountain® Maungatautari (SMM) cannot function without the fantastic commitment from our volunteers who cover a broad range of activity from pest monitoring, weeding, and planting to visitor centre hosting.

This year, volunteer contributions were impacted by COVID-19. In 2019 SMM volunteer hours decreased by 50%.

Our goal for 2020 will be to recruit new volunteers and provide a skills-based volunteer programme which will enable more opportunities for involvement, social interaction, and learning.

OUR VOLUNTEERS

The sincere passion of our wonderful volunteers rapidly advanced the Maungatautari project to cutting-edge status across the world. Today, after 12 years plus of dedicated service, most of these generous supporters are past retirement age and are now seeking less strenuous tasks to fill their days. This regrettably leaves fewer team-mates to continue the journey. On 30 June 2020 we had less than 300 regular volunteers, a decrease of 7% from 2019. Another contributing factor for the decline, has new prospects considering time and travel costs and then choosing to volunteer closer to home. We are aware of the need for a strong succession and recruitment plan and further acknowledge that health and safety protocols are high priority for the Trust. We are currently focussed on a Volunteer Plan that started last year when a Memorandum of Understanding was rewritten for volunteers by our volunteer team leaders. This plan is a work in progress requiring considerable effort from volunteers and staff alike.

An overall 50% decrease in annual volunteer hours can be attributed to other major shifts as well as travel costs and the global COVID-19 pandemic. The areas of most decline are administration, corporate groups, events, general light duties, natural heritage, trustees, visitor hosts and weed control. More staff and contractor input has reduced volunteer contributions for events and general light duties. Weeds have noticeably spread across the mountain, but access issues have restricted where the spray truck can operate safely. Our visitor host numbers have been dwindling for the last few years and the reduction of Trustees from 16 to nine has reduced meeting hours considerably.

Committee and work-team participation on the other hand, has increased a remarkable 320%. Tour guide hours has improved by 118% in under three years. Another area that has increased extensively is species related work. The establishment of another takahē pen has required more attention from their fantastic caretakers and a number of volunteers put in some long hours when fostering a couple of injured kākā over several weeks. We also undertook a couple of bird counts and surveys. Last year, we introduced the kiwi courier programme where volunteers travelled through to Rotorua or Taupō to pick up kiwi. Similarly, they have and will continue to be responsible for kiwi travel to other approved areas.

Te Awamutu College continue to include Sanctuary Mountain® Maungatautari as part of their Education Outside the Classroom programme and Puahue School remains a part of our southern enclosure pest monitoring programme. Last year, the Waikato Science Club replaced the Waikato Historical Society Group to monitor in the northern enclosure. Unfortunately, they had just started when public access from the end of Hicks Road was disputed.

As always, positive word-of-mouth guarantees continuance where no job is ever too tough. Although, many of our volunteers are aging, our Volunteer Plan will hopefully see lots of new recruits prosper and grow like those before them. And again, it will be this deep-rooted passion that keeps them coming back year after year.



4

Viabile Enterprise



SANCTUARY MOUNTAIN® IS DEPENDENT UPON MULTI STAKEHOLDER SUPPORT

The main aspects of our funding drive include:

Revenues generated via eco-tourism visitor experience

With the introduction of the visitor services team leader, our focus has shifted to developing our visitor experience. Proactive marketing of authentic mana whenua cultural product is critical to the success of developing our domestic and international visitor market.

In May and June 2019, multi-year funding was secured from Trust Waikato and WEL Energy Trust respectively. This supports the appointment of a marketing person, education programme team leader and volunteer co-ordinator.

Relationships with local government

As a nationally and internationally significant conservation project, we are extremely grateful to both Waipa District and Waikato Regional Council's for providing significant multi-year funding commitments. This commitment, re-enforced in 2019 by Waipa District Council's renewal of support for an additional three years, reflecting a wider understanding and support of the conservation, economic and social outcomes Sanctuary Mountain® Maungatautari brings to the people of our region.

Central government

We are extremely grateful to the Department of Conservation for the funding received this year via the Community Conservation Partnerships Fund.

Corporate citizens

Business understands the importance of Sanctuary Mountain® Maungatautari and, as a good corporate citizens, has supported Sanctuary Mountain® Maungatautari in 2019. Of particular note was our newly formed partnership with Mother Earth. Support from Mother Earth has helped enable the continued development of our programme and our ability to provide fully facilitated educational experiences. It is hoped that these partnerships can be further developed into the future.

Community Trusts

Significant contributions have been made in 2019 by a number of Trusts. This support continues to be a vital source of funding for our project.

KEY PERFORMANCE INDICATORS

Financial reporting
period from
1st July to 30th June

Environmental factors ecological habitat improvements	2019/20	2018/19	Change
Fence maintenance			
Number of responses this year	90	77	13 ▲
Sectors of fence flattened	4	9	-5 ▼
Pest management			
Number of breach responses implemented	11	9	2 ▲
Total number of pests trapped (excl. mice)	7	7	0
Positive flora outcomes			
Number of plants planted around the maunga:			
Wetlands	0	38	-38 ▼
Southern enclosure	0	0	0
Visitor centre	21	49	-28 ▼
OTM	0	0	0
Gorsenet	529	515	14 ▲
Other	1,567	1,786	-219 ▼
Total plants planted	2,117	2,388	-271 ▼
Positive fauna outcomes			
Total kiwi released on to main mountain since July 2012	210	136	74 ▲
Number of kiwi imported	73	38	35 ▲
Number of kiwi exported	0	13	-13 ▼
Kiwi chicks hatched in Te Tūi ā Tāne	0	14	-14 ▼
Social factors			
Community			
Education visits (students only)	2,404	3,921	-1,517 ▼
Education visits (teachers and parents)	494	751	-257 ▼
Volunteers	291	348	-57 ▼
Volunteer hours	8,277	14,456	-6,179 ▼
Volunteers full time equivalent (1664 hours per year)	4.9	8.5	-3.6 ▼
Visitor experience			
Number of people on guided tours	2,127	1,912	215 ▲
Total visitor numbers (incl. guided tours/excluding education)	11,253	12,342	-1,089 ▼
Employees			
Number of staff employed	14	13	1 ▲
Gender diversity	75%	62.50%	0.125% ▲
Employee turn over	14%	23%	-0.09% ▼
Health and safety			
Accidents with absenteeism	-	-	-
Governance factors			
Gender diversity			
Board of Trustees	66%	50%	16% ▲
Finance committee	20%	20%	0%



FINANCIAL REPORT – YEAR ENDING 30th JUNE 2020

Graham Scott F.C.A.

An interesting end to the financial year with COVID-19 affecting our visitor revenue. The good news is that because most of our visitors are from New Zealand, recovery has been good, and numbers are ahead of last year for first quarter of the 2021 year. In summary:

- The Trust has recorded a surplus of \$48K after depreciation
- This is mainly due to the funding received for capital projects
- Facilities fees (from visitors) were down 11% to \$93K compared with \$105K in 2019

Operating expenses are down around \$33K compared with 2019;

- This is despite an extra \$50K being spent on deferred track and fence maintenance
- A reshuffle of the contractors took place, and the savings are starting to show through in the total contractors/salaries/wages being paid.



INCOME AND EXPENDITURE ACCOUNT

Revenue	Year ended 30/6/20	Year ended 30/6/19
Funding/Grants	1,093,139	1,111,414
Donations, fundraising & other similar revenue	291,947	149,906
Revenue from providing goods or services	315,262	265,819
Other income	85,844	124
Total revenue	1786,192	1,527,263
Expenditure		
Expenses before depreciation		
Administration	155,307	140,190
Field Overheads	100,169	53,538
Marketing	24,907	27,245
Natural Heritage	72,111	87,697
Operations	92,134	100,069
Salaries/Wages/Contractors	920,792	975,749
Visitors	14,401	28,332
Total expenditure (bef. deprec)	1,379,821	1,412,819
Depreciation and amortisation	358,406	363,698
Total expenditure (inc. deprec)	1,738,228	1,776,517
Surplus/(deficit) before depreciation	406,371	114,444
Surplus/(deficit) after depreciation	47,964	(249,254)



Cash Situation;

- As at 30/06/2020, the trust had \$535K in the bank including Term Deposits, compared with \$30K the previous year
- While most of this is tagged funding for the new Education Centre, there were still operating funds available of \$59K
- This is the strongest cash position the Trust has been in for a long time!
- The multi-year funding agreements in place and some commercial sponsorship agreements have put us in this position
- It also helps that all bank loans were paid off during the 2020 financial year.
- The Finance, Audit and Risk committee continue to monitor the next six months cash-flow forecast at their monthly meetings

BALANCE SHEET

Assets	As at 30/6/20	As at 30/6/19
Fixed assets	9,173,861	9,296,581
Current assets		
Bank accounts	535,203	29,672
Other current assets	43,015	30,887
Total current assets	578,218	60,159
Total assets	9,752,079	9,365,740
Liabilities		
Current liabilities		
Accounts payable	105,251	63,815
Other current liabilities	367,066	94,528
Total current liabilities	472,317	158,343
Loans	33,400	(0)
Total liabilities	505,717	158,343
Total current assets less total current liabilities		
(Working capital)	105,901	(98,184)
Total assets less total liabilities		
(Net assets)	9,246,362	9,198,397
Accumulated funds		
Capital contributed by owners or members	50	50
Accumulated surpluses or (deficits)	9,246,312	9,198,347
Total accumulated funds	9,246,362	9,198,397

We would like to acknowledge our current and retired trustees for the year 2019-2020

Current Trustees

- Poto Davies (Co-chair)
- Don Scarlet (Co-chair)
- Aaron Barnsdall
- Andrew Peckham
- Graham Parker
- Maryanne Sambells
- Nico Mouton
- Rahui Papa

Retired Trustees

- Keri Thompson

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MAUNGATAUTARI

Operating Plan 2020/2021



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1.0 Introduction

In early 2019, Sanctuary Mountain Maungatauri (SMM) began to align reporting of our outcomes to the United Nations (UN) Sustainable Development Goals (SDG's) framework. SDG's are the global and local blueprint to achieve a better and more sustainable future.

This new focus has expanded our understanding of our "why". As inspired kaitiaki, we are here to share the mauri and mana of the maunga. Clearly, our core business of ecological and cultural restoration underpins all that we do. However, our impact is significantly greater than this.

Early in 2020, SMM were presented with an opportunity to be part of a movement to achieve a more environmentally sustainable, prosperous, and inclusive Waikato region by 2030.

This movement is known as the Waikato Wellbeing project, a regional movement that will, over the next ten years, deliver on a collective responsibility to achieve a better and more sustainable tomorrow.

The Waikato Wellbeing project has embedded the UN SDG's into its systems approach to foster change and collective impact.

We are proud to be part of this movement!

In March 2020, visitors to Sanctuary Mountain Maungatauri stopped. New Zealand and the rest of the world went into lockdown due to restrictions imposed, and as we grappled with, the COVID-19 pandemic.

At the time of writing, New Zealand is at Alert Level 2, with International Tourism unlikely for the foreseeable future and domestic tourism working to re-establish itself.

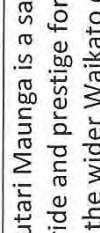



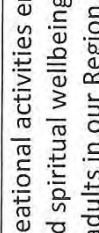
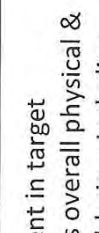
We are now in a time that requires urgency, collaboration, and strong leadership.

In support of this, SMM has developed this plan of action to: realise the opportunity presented by a desire for a new world order that places emphasis on the importance of equality and peoples' rights at the heart of it, whilst at the same time and equally, recognizing the rights of planet earth.

Specifically, this opportunity translates into specific key areas of action which are detailed in this plan and can be summarised as follows in SMM's theory of change.:

1.2 Our Theory of Change

By restoring our precious and scarce natural resource and heritage, that is Maungatautari, we will contribute to a Region where:

Key Activity	Key Outputs	Key Outcomes.
 <p>Restoring 3363 hectares (ha) of thriving NZ ecosystem.</p>	 <p>Protecting native fauna and flora from predators and invasive species. Re-introducing and breeding endangered NZ species. Becoming Carbon Positive. Restoring 22 waterways, improving river water quality and ecological corridors</p>	<p>Maungatautari Maunga is a sacred source of spiritual pride and prestige for Waikato Māori and the wider Waikato communities. Endangered native fauna, waterways and flora are thriving,</p>
 <p>Reduce inequalities to access to healthful activities</p>	 <p>Improvement in target populations overall physical & mental well-being. Including Maori, Children & older adults.</p>	<p>Forest recreational activities enhance the physical, mental, and spiritual wellbeing of children, adults, and older adults in our Region.</p>
 <p>Provide access to quality jobs by telling the Waikato Story & educating our tamariki.</p>	 <p>Reduced inequalities for target populations.</p>	<p>Mana whenua actively connect with and use their land for social, cultural, and economic wellbeing. Jobs are created & Education and Tourism contribute to the Waikato economy by telling our ecological and cultural story. Our tamariki understand the interrelatedness of the UN Sustainable Development Goals and their role as future kaitiaki.</p>

To deliver our theory of change, decision making at Sanctuary Mountain Maungatautari (SMM) will be guided by:

1.3 Our Vision:

Our vision aligns our Why and our How's. At SMM our Vision is to:

Share the mauri and mana of the maunga.

1.4 Our Why:

Our WHY is our purpose, cause, and belief. At SMM we are:

Inspired Kaitiaki.

And our HOW's are the actions we take to bring our "WHY" to life.

1.5 Our How's:

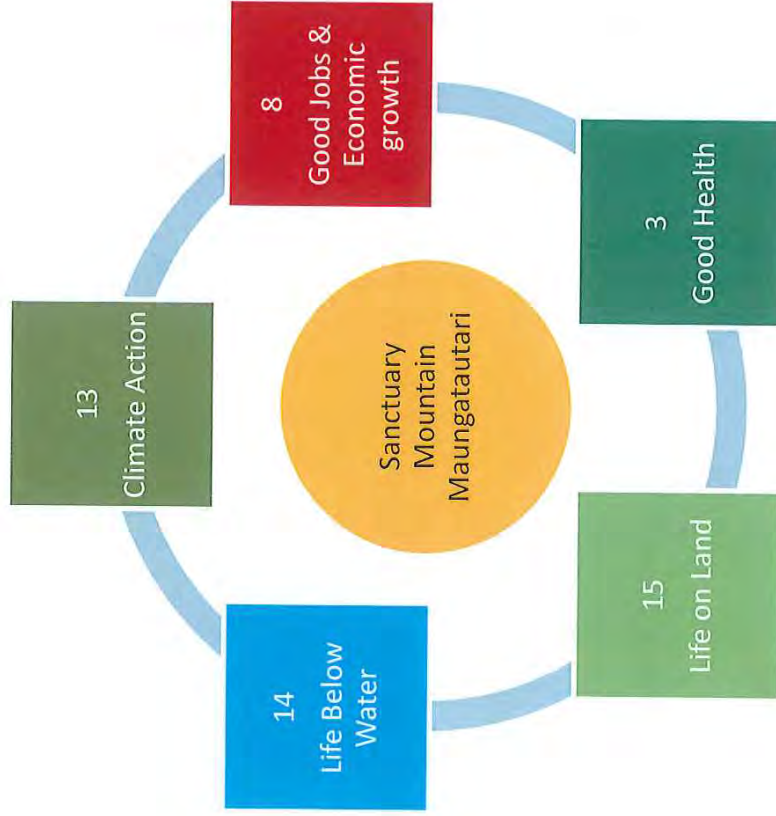
Our "How's" are guiding principles derived from the themes that emerged from our "Why" discovery process. They are simple and actionable. At SMM we:

- Share the mauri.
- Embrace improvement.
- Grow valued relationships.
- Enhance the mana of the maunga.
- Safeguard our taonga.
- Engage our communities.

1.6 Our What's & Theory of Change.

Our WHATS are the tangibles, the work we do every day. These are detailed later in our "Business Plan Objectives – Performance Measures and Targets". There are five interrelated parts to the business priorities of Sanctuary Mountain Maungatautari. These are:

- Climate Action.
- Good Jobs & Economic Growth
- Good Health.
- Life on Land
- Life Below Water



1.7 Our Teams- Critical objectives, resources, and performance measures

These five interrelated parts of our business, Climate Action, Good Jobs & Economic Growth, Good Health, Life on Land and Life Below Water will be delivered by SMM's five key teams, who cross functional by design, have clear responsibility in terms of this business plan outcomes. These are:

1. Natural Heritage.
2. Infrastructure-Operations
3. Volunteer Management Team
4. Visitor Centre & Marketing Team
5. Education Programme Team
6. Administration Team

The critical objectives, resources and performance measures of each team are detailed as follows:

.....

2.0 Our Keys to Success:

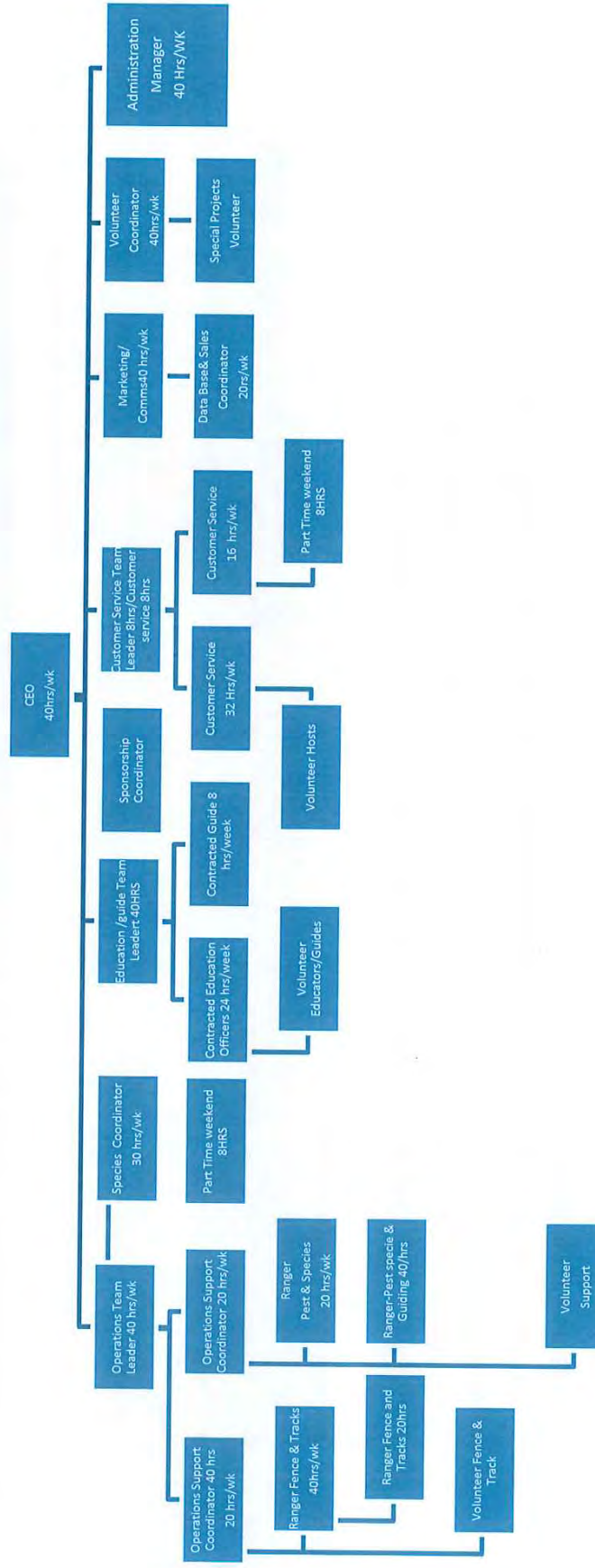
1. Implement our theory of change.
2. Educate in the context of cultural appreciation and the importance of sustainable and thriving eco-systems.
3. Maintain a predator free status.
4. Engage communities to create advocates who are involved as volunteers, customers, partners, and funders.
5. Foster multi stakeholder cooperation between Central Government, Local Government; Corporate; Academic and Community entities.
6. Understand our customers and how best to reach out to them locally and nationally.
7. Develop a product and pricing mix that offers authenticity and perceived value for our customers and other key stakeholder groups.
8. Embrace excellence through a culture of continuous improvement across all areas of the organisation.
9. To deliver long term plans including Restoration, Tourism, Biosecurity and Asset Management plans.

2.1 What will our Success look like?

Success by the 30th June 2021 will translate into the attainment of the following Key performance Indicators:

Forecast and Targets – 2020/2021	
• The total annual visitors:	15000 Visitors*
• Customer Satisfaction:	90% Customer Satisfaction
• Staff Satisfaction:	85% Staff Satisfied/Very satisfied.
• Volunteer Satisfaction:	90% Volunteer Satisfaction
• Species Translocations	100% completed.
• H&S	Zero Serious harm & Incidents.
• Breach Response Time within 90 minutes	100% within 90 minutes
• Pest Incursions	100% incursions intercepted.
*Includes education programme.	
Income/ Expenditure Forecast – 2020/2021	
• The operations annual income is forecast to be:	\$1,410,596
• The operations annual expenditure is forecast to be:	\$1,398,364
• Operating surplus:	\$ 12,232.00

3.0 Our Organisation.



Sanctuary Mountain Maungatautari

Operating Plans Objectives – Performance Measures and Targets 2020/2021





Health & Safety

SDG:

8 Good jobs & Economic Growth.

Strategic Objective:

Maungatautari is a Top 20 NZ recognized ecotourism destination

Theory of change

Jobs are created & education and tourism contribute to the Waikato economy by telling our ecological and cultural story.

Operating Expenses

Health & Safety

\$27,500

Objectives: 1st July 2020–30th June 2021

- Provide a healthy and safe customer and volunteer experience, and place of work for employees and contractors.
- Comprehensive accident/incident reporting and investigation. Increased team participation in accident/incident reporting.
- Effective steps taken to eliminate or minimise hazards identified in accident/incident investigation.
- Monthly health and safety meetings completed. Increased team participation in hazard reporting.
- Development of Safe Work Method Statements (SWMS) for common tasks and deployment to all relevant teams.
- Quarterly audit of health and safety procedures and equipment developed for all SMM sites.
- Emergency drills conducted quarterly at all SMM sites.
- Site/event specific health and safety plans created for upcoming significant events/work.
- Digitise health and safety processes including accident/incident reporting, investigation, inductions.
- Schedule of annual, quarterly, monthly, weekly health and safety tasks created.
- Hazardous substances register updated.

Maintain or improve SMM's silver Qualmark Sustainable Tourism Business Award.Human Resources:

- H&S Rep x .25 (10hrs/wk)
- Training \$10,000

Performance Measures:

1. Zero serious harm or Incidents
2. 85% Staff & Volunteers are Satisfied/Very satisfied
3. 90% customer satisfaction a per the visitor experience survey.
4. NPS of 85
5. Delegated work plans achieved within budget and on time.
6. 100% adherence to all health and safety policies and process.



Sanctuary Mountain Maungatautari

Health and Safety Plan 2020/21

One Page Plan & Supporting Plans

<p>Strategic Goals 2020 - 2021</p> <p>Sanctuary Mountain@ Maungatautari is widely recognised as a world class conservation project.</p>	<p>Outcome</p> <ul style="list-style-type: none"> • Provide a healthy and safe customer and volunteer experience, and place of work for employees and contractors. • Comprehensive accident/incident reporting and investigation. Increased team participation in accident/incident reporting. • Effective steps taken to eliminate or minimise hazards identified in accident/incident investigation. • Monthly health and safety meetings completed. Increased team participation in hazard reporting. • Development of Safe Work Method Statements (SWMS) for common tasks and deployment to all relevant teams. • Quarterly audit of health and safety procedures and equipment developed for all SMM sites. • Emergency drills conducted quarterly at all SMM sites. • Site/event specific health and safety plans created for upcoming significant events/work. • Digitise health and safety processes including accident/incident reporting, investigation, inductions. • Schedule of annual, quarterly, monthly, weekly health and safety tasks created. • Hazardous substances register updated. • Maintain or improve SMM's silver Qualmark Sustainable Tourism Business Award.
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2	<p>Maungatautari is a Top 20 NZ recognised ecotourism destination.</p>	<ul style="list-style-type: none"> • Provide a healthy and safe customer and volunteer experience, and place of work for employees and contractors. • Comprehensive accident/incident reporting and investigation. Increased team participation in accident/incident reporting. • Effective steps taken to eliminate or minimise hazards identified in accident/incident investigation. • Monthly health and safety meetings completed. Increased team participation in hazard reporting. • Development of Safe Work Method Statements (SWMS) for common tasks and deployment to all relevant teams. • Quarterly audit of health and safety procedures and equipment developed for all SMM sites. • Emergency drills conducted quarterly at all SMM sites. • Site/event specific health and safety plans created for upcoming significant events/work. • Digitise health and safety processes including accident/incident reporting, investigation, inductions. • Schedule of annual, quarterly, monthly, weekly health and safety tasks created. • Hazardous substances register updated. • Maintain or improve SMM's silver Qualmark Sustainable Tourism Business Award.
3	<p>Productive partnerships are a feature of our success.</p>	<ul style="list-style-type: none"> • Effective procedures/equipment introduced to ensure lone worker safety. • Training matrix developed identifying what training team members have received and where training and refreshers are required. • Safety equipment register created.
4	<p>Sound financial management by the Trust and continued donor support, underpins increasing economic viability of the Sanctuary Mountain Maungatautari project.</p>	

Summary of 2020/21 Initiatives to address Strategic Goals (refer to following pages for detail of initiatives)	
	Provide a healthy and safe customer and volunteer experience, and place of work for employees and contractors.
	Comprehensive accident/incident reporting and investigation. Increased team participation in accident/incident reporting.
	Effective steps taken to eliminate or minimise hazards identified in accident/incident investigation.
	Monthly health and safety meetings completed. Increased team participation in hazard reporting.
	Development of Safe Work Method Statements (SWMS) for common tasks and deployment to all relevant teams.
	Quarterly audit of health and safety procedures and equipment developed for all SMM sites.
	Emergency drills conducted quarterly at all SMM sites.
	Site/event specific health and safety plans created for upcoming significant events/work.
	Digitise health and safety processes including accident/incident reporting, investigation, inductions.
	Schedule of annual, quarterly, monthly, weekly health and safety tasks created.
	Hazardous substances register updated.
	Effective procedures/equipment introduced to ensure lone worker safety.
	Training matrix developed identifying what training team members have received and where training and refreshers are required.
	Safety equipment register created.
	Maintain or improve SMM's silver Qualmark Sustainable Tourism Business Award.

Strategic Goal 1. Sanctuary Mountain@ Maungatautari is widely recognised as a world class conservation project.

Operational Initiatives	Actions	Who	When	Performance Indicators
<p>2020/21</p> <p>Provide a healthy and safe customer and volunteer experience, and place of work for employees and contractors.</p>	<p>Identify hazards through accident/incident reporting, investigation and health and safety meetings. Implement effective controls to eliminate or minimize these hazards. Develop a culture of team participation in health and safety processes.</p>	<p>DH</p>		<ul style="list-style-type: none"> • Zero serious harm incidents. • 100% of accidents/Incidents/Near misses investigated within 48 hours. • Controls to eliminate or minimize hazards introduced within 1 month of the incident. • All H&S Minutes read and signed off by the whole team within 7 days of the H&S hui.
<p>Comprehensive accident/incident reporting and investigation. Increased team participation in accident/incident reporting.</p>	<p>Identify hazards through accident/incident reporting, investigation and health and safety meetings. Implement effective controls to eliminate or minimize these hazards. Develop a culture of team participation in health and safety processes.</p>	<p>DH</p>		<ul style="list-style-type: none"> • 100% of accidents/Incidents/near misses reported to CEO within 24 hours. • 100% of accidents/Incidents/near misses investigated within 48 hours. • Controls to eliminate or minimize hazards introduced within 1 month of the incident. • All H&S Minutes read and signed off by the whole team within 7 days of the H&S hui. • 25% increase in accident/incident reporting over the 2019-20 FY.
<p>Effective steps taken to eliminate or minimise hazards identified in</p>	<p>Identify hazards through accident/incident reporting, investigation and health and safety meetings. Implement effective controls to eliminate or minimize these hazards.</p>	<p>DH</p>		<ul style="list-style-type: none"> • 100% of accidents/Incidents/near misses investigated within 48 hours. • Controls to eliminate or minimize hazards introduced within 1 month of the incident.

accident/incident investigation.						
Monthly health and safety meetings completed. Increased team participation in hazard reporting.	Health and safety meetings conducted monthly.	DH			<ul style="list-style-type: none"> All monthly H&S meetings conducted. All H&S Minutes read and signed off by the whole team within 7 days of the H&S hui. 25% increase in accident/incident reporting over the 2019-20 FY. 	
Development of Safe Work Method Statements (SWMS) for common tasks and deployment to all relevant teams.	SWMS developed.	DH			<ul style="list-style-type: none"> SWMS for all common tasks developed. SWMS deployed to relevant teams and acknowledgement forms signed. 	
Quarterly audit of health and safety procedures and equipment developed for all SMM sites.	Audits developed.	DH			<ul style="list-style-type: none"> Audits for H&S procedures developed. Audit of safety equipment developed. 	
Emergency drills conducted quarterly at all SMM sites.	Emergency drills conducted at all SMM sites quarterly.	DH			<ul style="list-style-type: none"> Quarterly drills conducted at all SMM sites. Relevant team members are involved in at least one drill annually. 	
Site/event specific health and safety plans created for upcoming significant events/work.	Site/event specific H&S plans are created for: <ul style="list-style-type: none"> Events involving more than 100 people. Work which potentially risks serious harm to team members. Work which poses a significant threat to biosecurity at SMM. 	DH			<ul style="list-style-type: none"> All site/event specific health and safety plans created two weeks prior to upcoming events/work. 	

<p>Digitise health and safety processes including accident/incident reporting, investigation, inductions.</p>	<p>Digital processes created.</p>	<p>DH</p>		<ul style="list-style-type: none"> All processes created and operational.
<p>Schedule of annual, quarterly, monthly, weekly health and safety tasks created.</p>	<p>Schedule for each task created and sign off for auditing developed.</p>	<p>DH</p>		<ul style="list-style-type: none"> Schedule created, reminders set in Outlook calendar, task sign off developed.
<p>Hazardous substances register updated.</p>	<p>Create a hazardous substance register that includes all current hazardous substances stored at SMM (e.g. new poison baits, waste poison baits, new herbicide sprays, waste herbicide sprays). Create a record which details volume of poison baits deployed to the mountain and volume of waste bait returned.</p>	<p>DH</p>		<ul style="list-style-type: none"> Hazardous substances register updated.
<p>Maintain or improve SMM's silver Qualmark Sustainable Tourism Business Award.</p>	<p>Identify hazards through accident/incident reporting, investigation and health and safety meetings. Implement effective controls to eliminate or minimize these hazards. Develop a culture of team participation in health and safety processes.</p>	<p>DH</p>		<ul style="list-style-type: none"> Maintain or improve SMM's silver Qualmark Sustainable Tourism Business Award.

Strategic Goal 2 Maungatautari is a Top 20 NZ recognised ecotourism destination.

Operational Initiatives 2020/21	Actions	Who	When	Performance Indicators
As above				

Strategic Goal 3. Productive partnerships are a feature of our success.

Operational Initiatives 2020/21	Actions	Who	When	Performance Indicators
Effective procedures/equipment introduced to ensure lone worker safety.	Introduce new equipment so that all team members working alone ALWAYS have a way of alerting others in the event of an emergency. Familiarize all team members with this equipment. Adjust Hytera Radio man down alert activation procedure.	DH		<ul style="list-style-type: none"> • Introduction of InReach Mini, Personal Locator Beacons, from NZ lone worker solutions. • All relevant team members familiarized with the use of PLB's. • Field staff issued with PLB's. • Surplus Hytera radios made available to team members working alone in the SE. • New emergency response procedures regarding activation of man down alarm on Hytera radios developed
Training matrix developed.	A training matrix which identifies what training team members have received and where training and refreshers are required will be developed.	DH		<ul style="list-style-type: none"> • A matrix which identifies current training received and where further training or refreshers are required is developed. • Team member competencies/training received is updated quarterly.

Strategic Goal 4. Sound financial management by the Trust and continued donor support, underpins increasing economic viability of the Sanctuary Mountain Maungatautari project.

Operational Initiatives 2020/21	Actions	Who	When	Performance Indicators
Safety equipment register created.	A register of all safety equipment is created including when equipment was issued, when equipment requires replacement or restocking.	DH		Register created.



Natural Heritage Team.

SDG 15:
Life on Land.

Strategic Objective:
World Class Conservation project.

Theory of change
Restoring 3363 hectares (ha) of thriving NZ ecosystem.

Project Expenses

Materials Tracking & Monitoring	\$53,000
Sprays	\$3,000
Aviary Food & Supplies	\$1,300
Payroll & Contractors	\$196,000
Fuel	\$9700
Vehicle Costs	\$23,200
Species Re-introduction (Rifleman)	\$31,000
Total	\$317,200*

*Excludes all administration, equipment & building costs.

Objectives: 1st July 2020-30th June 2021

- To keep the fenced reserve free of pest mammals.
- To Translocate native wildlife & monitor
- To monitor and facilitate research.
- To work in a manner that promotes health and safety.

Human Resources:

- Operations Team Leader x 0.5
- Species Coordinator Contractor x 0.6
- Operations Support Coordinator x 0.5
- Rangers x 1.2
- Volunteer Team

Performance Measures:

1. To provide a rapid response to all breaches.
 - Monitor and bait around any breaches in accordance with best practice protocols.
 - To safely respond to all breaches within 90 minutes.
2. To provide pest Surveillance.
 - Provide ongoing support for predator control- rodent monitoring and management in accordance with best practice protocols.
 - Maintain a sanctuary wide capable network of predator monitoring & trapping.
3. To complete the Restoration Plan roadshow by 30th June 2021
4. To complete the Bio-Security Plan by 31st December 2020.
5. Complete all kiwi releases in accordance with K4K MOU & DOC permit.
6. To complete 100% of translocations identified in accordance with best practise protocols.
7. To develop & deploy the monitoring plan and monitor all identified species in accordance with the plan.
 - X Research programmes initiated annually.
9. 100% of Annual work plans achieved within budget and on time.
10. 100% adherence to all health and safety policies and process.

Maungatautari Ecological Island Trust
Sanctuary Mountain Update

OPERATIONAL PEST MANAGEMENT PLAN 2020-2021



WANTED



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1 Purpose of the plan

The purpose of this plan is to outline all requirements and responsibilities for undertaking pest control activities across the organisation. It should be aligned to and demonstrate support for the organisation’s strategic objectives be consistent with organisational policies and be appropriate to the nature and scale of the organisation’s assets and operations.

1.1 Our mission, vision and values

To share the Mauri and Mana of the Maunga.

1.2 Our partners, customers and key stakeholders

Sanctuary Mountain Maungatautari (SMM) is a community lead project at heart, with passionate and dedicated supporters, many of whom have donated both their time and their resources to support the project. SMM is governed by a trust made up of members from the community, landowners and local iwi representatives. A team of passionate and committed staff and contractors, with support from national, regional and local bodies such as the Department of Conservation, Waikato Regional Council (Environment Waikato) and Waipa District Council, and generous public and corporate sponsors, has enabled the maunga to go from strength to strength.

SMM is a taonga (a natural resource which is highly prized) to mana whenua (local Māori who have a connection with the maunga). Mana whenua work closely with the trust to ensure the maunga is restored to the lush and vibrant eco-system it was in the time of their forefathers.

SMM has over 400 registered volunteers, many of whom regularly contribute their time. They provide significant support to our daily operations with roles including pest monitoring and maintenance of tracks and tracking lines, monitoring the health and growth of various wildlife species, weeding, and visitor hosting. We are forever grateful for the time and effort this group of passionate people put into the project; we simply could not have achieved what we have without them!

2 Responsibilities and authorities

Pest control activities are to be undertaken by either SMM staff, volunteers, or an appropriate contractor. It is the Operations Team Leader’s responsibility to ensure that

the Operations Team and Volunteer teams are provided with adequate resource to maintain the pest free status of the sanctuaries at SMM. It is the responsibility of the CEO to ensure that adequate operations staffing is provided for SMM. It is the joint responsibility of the CEO and Operations Team Leader to implement the Operational Pest Management Plan.

2.1 Operations team roles

The Operations Team will carry out the day to day pest control activities and any reactive pest work. If they are unable to complete the work or the work is beyond their resources or skills, then the work will be allocated to a contractor.

2.2 Scheduled works

The following are undertaken to meet statutory or contractual requirements:

- Operational Pest Management Plan

2.3 Pest recording and actioning

Pest control work identified by SMM will be delivered in the Operations Team Workplan and recorded through two systems ArcGIS and Google drive spread sheets to be backed up in the Cloud.

The Operations Team Leader (or other nominated personnel) will check the recording systems at regular intervals, assess any pest control work, and either:

- Allocate the work to SMM staff to carry out and complete the records.
- or
- If unable to complete, refer the matter to a contractor.

Action taken on work allocated to the SMM staff that subsequently needs to be allocated to a contractor must be recorded within our systems. The staff must keep the Operations Team Leader informed.

3 Operational staffing

During business hours the Operations Team will carry out the day to day pest control activities and any reactive pest work. Outside business hours two staff members, from the Operations Team are on call to respond to fence breaches.

4 Pathways for pest reinvasion

Several factors must be considered in terms of reinvasion risk to the Maungatautari enclosures. Unlike isolated offshore islands, where large bodies of water protect pest-free environments, at Maungatautari just a few millimetres of mesh lie between a suite of pests and the pest-free environment within the enclosures. The vegetation within and surrounding the sanctuary, and the need for streams to pass through the sanctuary fence line, create the most significant risks in terms of pest reinvasion. But, beyond these risks there are several other potential pathways for invasion including:

- Pedestrian and vehicle gates being left open.
- Vehicles carrying pests into the enclosures.
- Vehicle collisions with fence.

- Carried bags or equipment transporting pests into the enclosures.
- Objects such as hay bales, ladders or parked vehicles being placed near the fence allowing pests to jump or climb into the enclosures.
- Stock damage to fence.
- Vandalism of the fence.

4.1 Managing pathways of pest reinvasion

The common pathways of pest reinvasion, vegetation damage to the fence or water gates being jammed open, require constant surveillance by the Operations team. Most other reinvasion pathways can be managed via education of staff, volunteers, contractors, landowners, and the public who visit or work at Maungatautari.

4.1.1 Vegetation

Vegetation that may cause damage to the fence or which might interfere with the fence surveillance wire is continually identified by the Operations Team. Where possible this vegetation is removed by the Operations team using loppers, pole saws and chainsaws. Arborists are contracted to remove larger dead or dying trees and a shelter belt trimmer is annually contracted to trim vegetation in accessible areas. Vegetation from outside the fence that grows within 5 m of the fence, or vegetation within the fence, creates a potential jump zone that could allow pests to enter the sanctuary. Where these jump zones are identified the vegetation is removed using the methods described above.

4.1.2 Water Gates

Many of the streams flowing in or out of the enclosures have swinging water gates. These gates swing open in periods of high-water flow and close again as water flow subsides. At times debris which have been washed down stream can prevent a water gate from closing and potentially allow pests to enter the sanctuary. A reed switch sensor is installed in each water gate that is wired to a nearby surveillance box. If the water gate is open a "Water Gate OPEN" alert is included in the daily Pol Report, an email which is sent to all Operations Team members. When this alert is received the Operations Team will check the water gate and ensure that it is either closed, or open due to a high flow of water.

4.1.3 Pedestrian and Vehicles Gates

Pedestrian gates have a double door system to prevent pest incursions and to minimise gates being left open as visitors enter the enclosures. Additionally, many pedestrian gates are fitted with reed switch sensors which send an SMS alert to the breach phone if both gates are opened at once. As part of the induction process all staff, volunteers and contractors are shown how to correctly operate pedestrian and vehicle gates.

4.1.4 Vehicles

Team members who operate 4WD vehicles and quad bikes at SMM undergo external and internal training. In this training they are familiarized with operating these vehicles near the fence and are informed of the requirement to park vehicles at least 3m away from the fence while unattended. Vehicles which will enter an enclosure must be kept free of pests. Cleaning and baiting of pests are regularly conducted for all vehicles and a visual check is also conducted before any vehicle enters an enclosure.

4.1.5 Bags and Equipment

All staff, volunteers and contractors are briefed on the importance of checking bags and equipment before entering the enclosures, and the need to store objects/equipment away from the fence as part of their induction. This information is also given to landowners. Visitors to the maunga are asked to check bags and equipment by staff at the Visitor Centre reception before entering an enclosure.

4.1.6 Stock

In many parts of the mountain stock are excluded from enclosure fences via farm fencing on the perimeter road. In those areas where stock can graze right up to the enclosure fence an electrified outrigger is installed to prevent stock causing damage.

4.1.7 Vandalism

It is difficult to manage the risk of vandalism to the fence other than to have pest surveillance and monitoring systems in place to detect such events as quickly as possible. However, the use of surveillance cameras at car parks and entry points is advertised with the aim of decreasing undesirable behavior around the fence.

5 Surveillance and monitoring

SMM has a thorough surveillance, monitoring and maintenance program to ensure the enclosures remain pest free.

This program involves two key aspects:

- Fence surveillance to ensure the fence remains in good, functional condition.
- Pest monitoring to detect reinvasion as early as possible.

5.1 Fence surveillance

Fence damage or a fence breach risks the pest free status of the enclosures due to the high number of pest mammals outside the fenced area. Rapid detection of fence breaches is therefore imperative.

The pest proof fence on all enclosures has a 24 hour, monitored electronic surveillance system to detect breaches. The surveillance system is broken down into fence sectors, so a rapid response can be conducted in the area of the fault. The goal of SMM is to find and secure fence breaches from reinvasion within 90 minutes of the event occurring. "Securing" in this context means preventing reinvasion by pest mammals by either fixing the fault or installing a temporary fence. Full repairs or restoration of the electronic surveillance system may take considerably longer. Following a fence breach the Operations Team will establish a fence breach response as detailed below.

5.1.1 Fence Inspections

A detailed inspection of all fence components is undertaken every three months by SMM staff and volunteers. The fence is inspected slowly on foot. If a fault is found, the type of fault and its location is recorded, and a small piece of marking tape is tied to the fence. Faults are reported to the Operations Team leader who coordinates the repair of faults.

Following severe weather events an additional fence inspection is conducted by SMM staff to check for tree falls, culvert failure, wash outs or any other incidents that may

potentially pose a risk of pest reinvasion.

5.2 Pest monitoring

An extensive network of tracking tunnels is used to monitor for pest presence within the enclosures at SMM. Each tracking tunnel is given a unique tracking tunnel number. The tracking tunnel number details the track it is placed on and its number in the sequence of tracking tunnels e.g Tauroa 3.

5.2.1 Conducting Monitoring

Tracking cards are routinely placed inside each tracking tunnel. Each tracking card is alternately baited with 3 types of lures; fresh peanut butter, a rodent lure, or a mustelid lure, and is left in place for up to a week. Each tracking card is labelled with its tracking tunnel number, the lure used on the card and the date of placement in its tunnel. The Operations Team is responsible for monitoring the Northern Enclosure, Coopers Enclosure, the QE2 block, the Tautari Wetland, a selection of the main mountain interior monitoring tracks, and the fence line from fence post 299 to 157. Volunteer teams are responsible for monitoring the Southern Enclosure, a selection of the main mountain interior monitoring tracks, and the fence line from fence post 157a to 298a. Cards are retrieved from tracking tunnels within a week by the appropriate volunteer team or the Operations Team. Where volunteer teams have retrieved cards they are placed within bins at the Visitor Centre or Gilles St. depot for collection.

5.2.2 Tracking Tunnel Placement

The pattern used in tracking tunnel placement at Maungatautari varies between the main mountain and the smaller enclosures (including the Northern, Southern and Coopers Enclosures, the Tautari Wetland, and the QE2 block) and between the fence line and the interior of each enclosure.

Main Mountain Fence Line

- Tracking tunnels are placed at 50m intervals along the fence line. Every alternate tracking tunnel is placed on an "A line" just within the forest margin.

Main Mountain Interior

- Tracking tunnels are placed at 100m intervals on all active monitoring tracks, on the main ridgelines and with subsidiary lines radiating off these ridges to cover gullies and slopes. The aim is for tracking tunnels to form a 100m x 200m grid pattern.

Smaller Enclosure Fence Line

- Tracking tunnels are placed at 50m intervals along the fence line.

Smaller Enclosure Interior

- Tracking tunnels are placed on monitoring tracks. The aim is for tracking tunnels to form a 50m x 50m grid pattern.

5.2.3 Frequency of Monitoring

The frequency of monitoring is determined by the pest status of the enclosures. The main mountain fence line is monitored monthly and interior monitoring lines are

monitored quarterly. Both the fence line and interior monitoring lines in smaller enclosures are monitored monthly.

5.2.4 Tracking Card Reading

An initial reading of tracking cards is conducted by the volunteer team or Operations Team members as they are collected in the field. A second more detailed reading of tracking cards is then conducted by Operations team members who are internally trained in card reading. If there is uncertainty about the species responsible for tracks found on a tracking card a scan of the card is sent to experts in a partner organization such as Manaaki Whenua Landcare Research. If pest mammal tracking is identified on a monitoring card a pest incursion response will be established by the Operations Team as detailed below.

5.2.5 Recording Tracking Card Data

Tracking card data is recorded within a Google Drive Sheet titled "Tracking Card Recording Sheet". The information recorded includes the team responsible for the monitoring track, the date the card was read, presence or absence of mouse tracking, and notes including if a pest animal has been tracked.

6 Fence breach/pest incursion responses

Fence breach and pest incursion responses are established by the Operations Team to eliminate pests which may have entered an enclosure. A fence breach response is established when a section of fence is damaged or when a water gate is jammed open potentially allowing pests into an enclosure. A pest incursion response is established when a pest is detected in an enclosure either via tracking on a tracking card or by being trapped.

6.1 Fence breach response

A fence breach response is established by the Operations Team as soon as possible, typically within 24 hours, following damage to the fence or a water gate being jammed open. For a fence breach response to be effective it needs to target a variety of pests. SMM's records have shown that rats and weasels are the two most common mammalian pests to enter breaches, so, the response primarily targets these two animals. If the fence breach was significant enough cats, larger mustelids and possums will also be targeted to a lesser extent. The layout of the fence breach response is shown in Figure 1 (this includes traps targeting cats and possums, please note these would not be present if the breach was less significant).

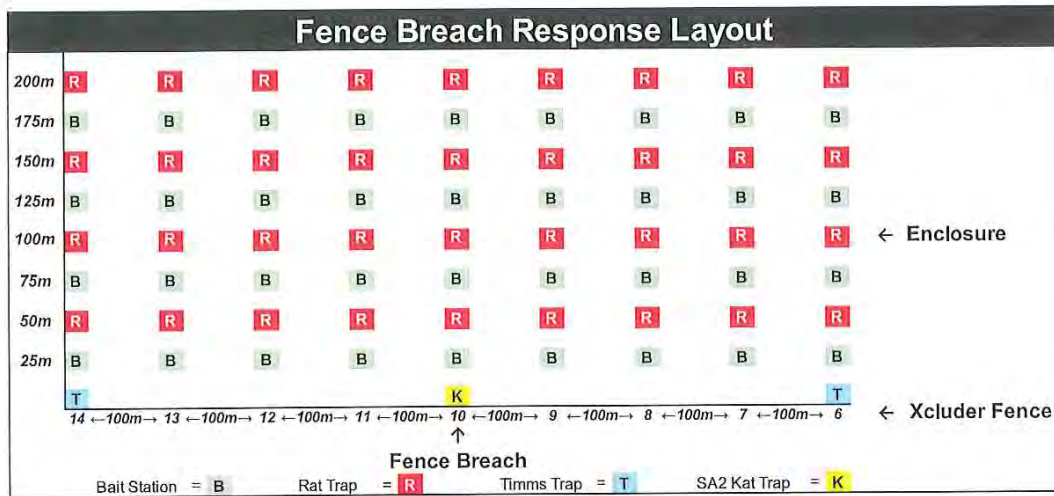


Figure 1. Fence Breach Response Layout.

6.2 Pest incursion response

When a pest mammal is identified within an enclosure, either via tracking on a tracking card or by being trapped, a pest incursion response is established by the Operations Team as soon as possible, typically within 24 hours. The layout of the pest incursion response is dependent on which species has entered the sanctuary.

Mustelid

Within a 2km radius of a mustelid being tracked or trapped:

- All tracking tunnels are monitored.
- All mustelid traps are baited with rabbit meat.
- Additional mustelid traps may be placed if required, as defined by the Operations Team Leader.

Cat

Within a 2km radius of cat tracking, cat sign or a cat being trapped:

- SA2 Kat Traps, Timms Traps and/or Cage Traps set at 500m spacing's on the fence line and active monitoring lines. These may be spaced closer if deemed necessary by the Operations Team Leader.
- Traps are baited with rabbit or cat food.

Possum

Within a 200m radius of possum tracking, possum sign or a possum being trapped:

- SA2 Kat Traps, Timms Traps and/or Cage Traps are set in a 100m x 100m grid and baited with a variety of baits such as apple, carrot, peanut butter or possum lure.

Rat

A breach response (Figure 1, without the Timms or SA2 Kat traps) is set up centering on the rat tracking or rat being trapped:

- If the evidence of incursion is found away from the fence, the response is double sided.
- Traps are baited with peanut butter.
- Bait stations to house brodifacoum.
- All tracking tunnels are monitored within a 1km radius.

Mouse

An incursion response for mice is only required if the incursion occurs within the QE2, SE, NE or Wetland enclosures.

A 200m grid is established where the mouse tracked or was trapped:

- Mouse traps and bait stations are alternately placed at 25m intervals along grid lines that are 50m apart.
- If the evidence of incursion is found away from the fence, the response is double sided.
- Traps are baited with peanut butter.
- Bait stations to house brodifacoum.
- All tracking tunnels to be monitored within a 500m radius.

Other

As designed by Operations Team Leader.

6.3 Response time frame

A response will be created as soon as possible from the first identification of a fence breach or a pest incursion. The aim is to complete the response within 24hrs of this first indication so there are traps and/or poisons in the vicinity of the potential intruder as quickly as possible.

All responses are in place and checked weekly for at least 6 weeks. After there has been no indication of incursion for 6 weeks the response is completed. If evidence is found of incursion during this 6-week period, the timeframe will revert back to week 0 and will require 6 more weeks of no indication of incursion before the response is complete.

6.4 Response servicing

All responses are serviced weekly. This includes the replacement and reading of any monitoring cards, the rebaiting and resetting of any traps, and the replacement of any poison baits. The following are to be followed:

- Replace all lures and poison amongst the response regardless of the condition
- Replace all cards associated with the response.
- Only discard of old poison and lures in the designated bins at SMM.
- Read and record all cards in a timely manner.

6.5 Further evidence of incursion

If further evidence of an incursion is found the response is extended. The location of the new evidence is the new centre point of the response. This will require the addition of more response lines for a rat or mouse response, or the addition of more tracking tunnels and traps for the other larger mammal's responses.

If continual tracking, sign or sight (i.e. no captures) is the only evidence of incursion after 3 weeks of response, the response may deviate from the requirements as described in section 6.2. In this instance the Operations Team Leader can decide to change the response to a less species-specific strategy to ensure eradication.

6.6 Identifying the cause of an incursion

If there is no apparent cause for a pest being detected or trapped, no fence breach for example, the Operations Team Leader will coordinate the inspection of the fence for 1km either side of the detection.

6.7 Response requirements

As shown above different situations require a different response. However, there are requirements that are expected to be met across all responses.

- All traps and poisons must be contained within a non-target proof housing or set to exclude non-target animals.
- All poisons are to be renewed on each weekly service.
- Where appropriate, captures are to be tagged and frozen for autopsy.

6.8 Recording response data

All responses are recorded on a "Fence Breach Response Set Up" sheet. This sheet details the reason for the response, the location, the extent, the type of response, the service history and any notes or captures associated with it.

Information regarding each response is also recorded within a Microsoft Excel file titled "Fence Breaches 2011-". The information that is recorded includes; the date the response was implemented, the cause of the response (i.e. fence hood damage or rat trapped), the location of the breach, the extent of the fence breach response (e.g. from fence post 10a – 19a), any subsequent pest tracking or captures, the date the response was completed, and any additional notes.

Additionally, in the case of a pest incursion to an enclosure, data is recorded in a Microsoft Excel file titled "Record of Mammals Trapped and Tracked 2013-". Information in this spreadsheet includes; the date of the pest incursion, the species involved, the detection method (e.g. tracked or trapped), the location where the detection occurred (e.g. Brooks 12), the event number (which groups incursion that can potentially be linked to the same event), and the enclosure the incursion occurred in.

7 Trapping and baiting

Although every attempt is made to prevent the incursion of pests into the sanctuary, through active fence surveillance, proactive trapping and baiting work is still conducted by the Operations Team to control pest incursions as they occur.

7.1 Trapping

An extensive network of traps is used at SMM with the aim of eliminating pests entering enclosures as rapidly as possible. Traps are placed at the fence line of all enclosures and along active monitoring lines and water gate lines in the main mountain enclosure.

7.1.1 Trap Placement

The pattern used in trap placement at Maungatautari varies between the main mountain and the smaller enclosures (including the Northern, Southern and Coopers Enclosures, the Tautari Wetland and the QE2 block) and between the fence line and the interior of these enclosures.

Main Mountain Fence Line

- A Victor Rat Trap, housed within a trap box and baited with peanut butter, is placed at 100m intervals.
- Alternating DOC200 and DOC250 traps, housed within a trap box and baited with rabbit meat, are placed at 100m intervals.

Main Mountain Fence Line adjacent to a smaller enclosure

On the main mountain fence line where it is adjacent to a smaller enclosure

- A Victor Rat Trap, housed within a trap box and baited with peanut butter, is placed at 100m intervals.
- Alternating DOC200 and DOC250 traps, housed within a trap box and baited with rabbit meat, are placed at 200m intervals.

Main Mountain Interior

- Alternating DOC200 and DOC250 traps, housed within a trap box and baited with rabbit meat, are placed at 300m intervals along active monitoring tracks.
- Alternating DOC200 and DOC250 traps, housed within a trap box and baited with rabbit meat, are placed at 100m intervals along the quad bike track.

Smaller Enclosure Fence Line

- Alternating DOC200 and DOC250 traps, housed within a trap box and baited with rabbit meat, are placed at 200m intervals.

Watergate Lines

Trapping is conducted along major streams which flow in/out of enclosures via water gates.

- A Goodnature A24 Rat and Stoat trap, anchored 900mm above the ground, is placed at 25m and 125m in from the fence line alongside the stream.
- A Victor Rat Trap, housed within a trap box and baited with peanut butter, is placed at 75m and 175m in from the fence line alongside the stream.
- A DOC200 or DOC250 trap, housed within a trap box and baited with rabbit meat, is placed at 200m in from the fence line alongside the stream.

7.1.2 Trap Servicing

Across all enclosures all traps are rebaited monthly, with the exception of the Goodnature A24 Rat and Stoat traps which have lures and gas cylinders replaced six monthly.

All Victor Rat traps are replaced quarterly. Rat traps taken off the maunga are serviced by a volunteer team who wash the traps, repaint the wooden bases where necessary, and lubricate the springs with lanoline spray.

DOC traps are serviced in situ quarterly. This service involves brushing out debris in the trap box and mesh screens, treating hinges with graphite powder and lubricating the spring with a lanoline spray.

7.2 Baiting

Baiting with poisons is conducted within SMM enclosures with two outcomes in mind. The first that baiting conducted along the fence line and on water gate lines will aid in

eliminating pests that enter enclosures. The second purpose of baiting is to reduce the density of mice near the fence line of the main mountain enclosure. It is hoped that by reducing mouse numbers at the fence line there is less chance of mice burrowing beneath the fence and creating an entry for other pest species.

7.2.1 Handling Bait

The use of poison baits at Maungatautari poses a risk to native the species living within its enclosures, to stock on adjacent farms, and to SMM staff and volunteers who handle the poison. The dangers posed by the poison bait are minimised in the following ways:

- All poison baits are housed within a non-target species proof housing when placed in the enclosures.
- All poisons baits are transported to the maunga in a sealed and secure bucket and these buckets are kept within vehicles or behind the fence if left unattended.
- Vehicles transporting poison baits must carry MSDS for all poisons and all persons handling a poison bait must be familiar with its MSDS.
- Distribution of poison baits amongst staff or volunteers is conducted at the Gilles St. or Tari Rd. depots, or within pedestrian gates.
- Staff and volunteers carry poison baits in secure buckets while within an enclosure.
- Any poison baits to be removed from an enclosure are placed within a secure bucket and this bucket is sealed before leaving the enclosure.
- Staff or volunteers handling poisons must wear disposable gloves, and they must wash their hands before eating.
- Old poison baits are discarded within designated bins.

7.2.2 Bait Station Placement

Bait stations are only placed along the fence line or on water gate lines within the main mountain enclosure, except in the instance of fence breach or pest incursion responses.

Main Mountain Fence Line

- A Diphacinone block, housed within a bait station, is placed at 20m intervals along the fence line.

Main Mountain Fence Line adjacent to a smaller enclosure

On the main mountain fence line where it is adjacent to a smaller enclosure

- A Diphacinone block, housed within a bait station, is placed at 50m intervals along the fence line.

Watergate Lines

- Two Brodifacoum blocks, housed within a Philproof bait station, are placed at 50m, 100m, and 150m intervals in from the fence line alongside the stream.

Maungatautari Ecological Island Trust
Sanctuary Mountain Update



Natural Heritage Team.

SDG 15:
Life on Land.

Strategic Objective:
World Class Conservation project.

Theory of change
Restoring 3363 hectares (ha) of thriving NZ ecosystem.

Project Expenses

Materials Tracking & Monitoring	\$53,000
Sprays	\$3,000
Aviary Food & Supplies	\$1,300
Payroll & Contractors	\$196,000
Fuel	\$9700
Vehicle Costs	\$23,200
Species Re-introduction (Rifleman)	\$31,000
Total	\$317,200*

*Excludes all administration, equipment & building costs.

Objectives: 1st July 2020-30th June 2021

- To keep the fenced reserve free of pest mammals.
- To Translocate native wildlife & monitor
- To monitor and facilitate research.
- To work in a manner that promotes health and safety.

Human Resources:

- Operations Team Leader x 0.5
- Species Coordinator Contractor x 0.6
- Operations Support Coordinator x 0.5
- Rangers x 1.2
- Volunteer Team

Performance Measures:

1. To provide a rapid response to all breaches.
 - Monitor and bait around any breaches in accordance with best practice protocols.
 - To safely respond to all breaches within 90 minutes.
2. To provide pest Surveillance.
 - Provide ongoing support for predator control- rodent monitoring and management in accordance with best practice protocols.
 - Maintain a sanctuary wide capable network of predator monitoring & trapping.
3. To complete the Restoration Plan roadshow by 30th June 2021
4. To complete the Bio-Security Plan by 31st December 2020.
5. Complete all kiwi releases in accordance with K4K MOU & DOC permit.
6. To complete 100% of translocations identified in accordance with best practise protocols.
7. To develop & deploy the monitoring plan and monitor all identified species in accordance with the plan.
 - X Research programmes initiated annually.
9. 100% of Annual work plans achieved within budget and on time.
10. 100% adherence to all health and safety policies and process.

Maungatautari Ecological Island Trust - Sanctuary Mountain Update

Version 3 – Sept 2020

Species Coordinator
Annual Work Plan 2020-2021

Goal	Key Actions	2019-2020 Key actions (summary from Rest Plan)	2020-2021 Objectives
5.2.1a, b	Monitor biodiversity to track progress to restoration	SMM will prepare a biodiversity monitoring plan with input from technical advisors. Current long-term monitoring such as vegetation plots, frog surveys and five-minute bird counts will continue, with efforts to maintain and improve data curation, inter-agency communication and agreements. All translocated taxa will be monitored for abundance and wellbeing, whilst new long-term surveys will be initiated to track the presence and abundance of selected taxa (e.g. lizards).	<ol style="list-style-type: none"> 1. Prepare biodiversity monitoring plan with John Innes & Craig M. 2. MWLR Triennial bird count due 3. Tuatara 5-year survey Nov-Jan 2020/21 4. Tuatara Northern Enclosure seek solution for fenceline digging. 5. Hihi annual survey July – Sept 2020 6. Kokako census – August 2020 (finance pending) 7. Long-term lizard survey SE set-up (Spring 2020) 8. Kiwi call survey (June/ July 2020), May 2021 live survey 9. Fish survey – tentative 10. Takahe breeding management 11. Hihi & takahe feeding management 12. Hochstetter’s survey April 2021?
5.2.1 a, b	Measure the path to restoration	The proportion of self-sustaining populations of forest species shall be monitored, relative to a fully occupied system, including those animals and plants translocated to the maunga.	<ul style="list-style-type: none"> • Find system to describe and report on self-sustaining species
5.2.1 a, b 5.2.2 c	Survey to see which species are present	Primary and targeted surveys will be undertaken for plants, lichens and fungi. Searching for threatened taxa that were likely to be historically present (e.g. Archey’s frogs, striped skinks) will help to improve knowledge gaps and determine if translocation is needed. This includes follow up surveys for species not previously been detected at the maunga despite searching, such as short-tailed bats and <i>Dactylopsilus taylorii</i> .	<ol style="list-style-type: none"> 1. Targeted survey for <i>Dactylopsilus</i> 2. Targeted survey for <i>Peripatus</i>, & stag beetle via Chrissie Painting 3. Targeted survey for Duvaucel’s gecko via Monique Nelson-Tunley 4. Primary surveys for fungi, lichen and mosses set-up using iNaturalist & volunteers 5. Acoustic survey for bats (July 2020, Spring 2020, Summer 2020) 6. Acoustic survey for crakes and rails Spring 2020 7. Bioblitz annual event (or similar) planning for 2021 8. Work with Ecoquest to extend survey work for Archey’s frog survey 2021

5.2.1 a	<p>Translocate threatened, iconic, missing animal and plant species</p>	<p>Restoration of the ecological integrity of the maunga will continue with translocations of taxa that would have originally been present on Maungatautari, including species of birds (e.g. kākāpō, NI rifleman, kākāriki), plants (e.g. <i>Dactyloctenium</i>), insects (e.g. stag beetle) and potentially, frogs (Archev's frogs), fish (kokopu) and others. Population reinforcement "top-up" translocations will be undertaken as required to ensure healthy genetic diversity.</p>	<ol style="list-style-type: none"> 1. Continue to support the K4K kiwi kohanga strategy with kiwi translocations and management 2. Translocate titipounamu April/May 2021 3. Top-up translocation of Kokako 2021 4. Preparation for kakapo translocation end of 2021 5. Preparation for NI kaka translocations next financial year 6. Investigate <i>Dactyloctenium</i> translocation 7. Create reference priority list for translocations to front-foot translocation plans (new).
5.2.1a, c	<p>Control unwanted weeds, and establish desired native plants</p>	<p>Control and surveillance of weeds and diseases will be undertaken according to the SMM Biosecurity Plan. Native plants will be established by planting at sites where natural colonization is unlikely to occur in a reasonable timeframe.</p>	<ol style="list-style-type: none"> 1. Continue wetland restoration including weed and excess bush removal, grass feed improvement and planting of takahe and wetland appropriate species, utilising Wetland Restoration Plan and create operational maintenance plan. 2. Seek method for weed/ adventive plant mapping
5.2.1c 5.2.2a, c	<p>Monitor and plan for social/cultural outcomes</p>	<p>Assist key agencies such as Waikato Regional Council, Waipa District Council, and the Department of Conservation by punctually fulfilling legal and permit obligations, by participating in regional biodiversity planning, and by openly communicating about matters of common interest. MEIT to discuss with tangata whenua whether they find current biodiversity monitoring on the maunga adequate. Alternative indigenous community-based measures have been proposed by Lyver et al. (2017)</p>	<ol style="list-style-type: none"> 1. Create reporting plan for DOC permits 2. High standard reporting to recovery groups, councils and other stakeholders & sent on time 3. Apply for kaka permit 4. Apply for rehabilitation permit 5. Foster research relationship with Agriresearch Adrian Cookson for water pathogen research using maori monitoring methods as a trial – gather feedback from mana whenua as to its success. 6. Report to iwi on taonga of interest especially for those translocated to SMIM (new)
5.2.1 a, b	<p>Encourage uptake of unique research opportunities</p>	<p>Encourage and actively support universities, Crown Research Institutes, and other research providers to undertake, publish and communicate research about the maunga, its natural and human history, and about outcomes of the SMM project.</p>	<ol style="list-style-type: none"> 1. Support Chrissie Paimting & students – invertebrate research Waikato University – <i>Peripatus</i> and giraffe weevil research 2. ZSL & WRC – hihi research, summer research intern 2020/21 (WRC funding dependent) 3. Find portal/curation method for research papers/ reports 4. Support other research requests as required and keep records.

5.2.1 c	Network about climate change	SMM should maintain strong science networking about climate change to keep up to date on best adaptive practice, and to consider opportunities to contribute to national research and management agendas.	Progress climate change scientist relationships and seek current research and plans around climate change science from <ul style="list-style-type: none"> • DOC • WRC • ZSL (John Ewen contacts)
5.2.2 a, b, d	Support, promote and expand education	Continue to grow the SMM education programme through outreach and place based education to: increasingly influence our tamariki/children to be aware of their kaitiaki role in conservation and restoration; and establish a system where researchers are provided with an opportunity to study our natural taonga and share the knowledge gained beyond the scientific community.	<ol style="list-style-type: none"> 1. Work with education coordinator for any species / restoration related education goals 2. SMM Researchers 1-day seminar (tentative)

Operational Initiatives 2019/20	Actions	Who	When	Performance Indicators
Hihi (Stitchbird)	Hihi Monitoring – Contractor undertakes mark recapture survey at SMM for 2020 Install new feeders	Mhairi McCready (Contractor) Species Coord Janelle Ward (SMM Species Coord) NH ops team Gofa team volunteers	July to Oct 2020 By end 2020	Report to be sent to Hihi Recovery Group, MEIT and DOC Feeders installed
Takahe	Breeding Management – Males exchanged for higher genetic value males in 2020	Takahe Recov group – Phil Marsh Species Coord	All year, breeding season Sept -	New males exchanged All 2019 chcks transferred Live takahe chicks 2020

			Warren Hicks (vol) Jan Olsen (vol) Craig M (species)	Feb	
Wetland Management	The Tautari Wetland Enclosure is improved in quality by weed management and takahe specific wetland planting		Species Coord Nursery / Weed Team Rod Millar	ongoing	Grass quality is improved, wetland structure improved with native plant species, weeds reduced, photo points reinstated
Kiwi	New database needed		Species Coord	Mid 2021	New database installed and data transferred
	Tongariro kiwi transfers		Species Coord Alison Beath (DOC)	May 2021	Kiwi transferred
	Northern and Southern Enclosures are cleared of remaining brown kiwi if possible – unless on transmitter for specific purpose, utilizing kiwi dogs, including finding the two lost kiwi destined for release at Tongariro		Species Coord Contractor (Dog teams) Jess Scrimgeour (DOC)	May 2021	Variation request is sent to DOC (if required) Kiwi are successfully found and transferred. Report to MEIT and DOC
	Quarantine area for kiwi is repaired in Southern Enclosure (IF funding is secured and k4k confirms a need)		Species Coord Ops team Kiwis for kiwi (funding)	2021	Quarantine area is repaired and fit for purpose
Kakapo Recovery	Trial fence design to inhibit escape of kakapo from mountain enclosure		Species Coord CEO MEIT John Innes Kakapo Recovery Group	?	Trial completed and reported results to key stakeholders
Mahoenui Giant Weta	Initiate annual monitoring		Species Coord Corinne Watts (Landcare Research)	June 2021	New monitoring method is set up and first results reported for annual report
Tuatara	Find suspected lost tuatara NE		JW, CM, JM, Moniqua Nelson-Tunley or delegate	Nov 2020	Tuatara found or considered no longer present
Bats and Tree Felling Management	A protocol is established for SMM for tree felling to ensure that resident bats are not harmed.		Fonkin & Taylor Kate Richardson James Matthews Janelle Ward	ASAP	Protocol is established and all trees felled are assessed prior to felling
Short-tailed Bat Recovery	Initiate annual bat survey at SMM. Alternative is to audio record at time of the kiwi survey.		Species Coord DOC Kate Richardson	June 2020	Species Coord report of bat recordings. Draft proposal for translocation (tentative --

					<i>if time this year</i>
Species Management Plans	Undertake research into possible future translocation – draft proposal Create a species SOP or overview document for management of certain species at the maunga e.g. kiwi, takahe, hihi	Colin O'Donnell	2021		Species Management Plan/ SOP
Biodiversity Monitoring Plan	Create an annual and ongoing plan for species surveys and monitoring at SMM – to be an appendix in the species management plan	Janelle Species Coord John Innes Craig Montgomerie	2021	Early 2021	Monitoring Plan



Operations Team.

SDG 15:
Life on Land.

Strategic Objective:
World Class Conservation project.

Theory of change
Restoring 3363 hectares (ha) of thriving NZ ecosystem.

Project Expenses

EDAC Dialler Upgrade	\$17,400
Hedge Trimming	\$22,500
Storm water management	\$34,500
Track/Road maintenance	\$25,000
Arborist work	\$17,267
Payroll	\$149,459
Fuel	\$8052
Vehicle Costs	\$22,870
Xcluder Fence	\$20,000
Total	\$317,048*

*Excludes all administration, equipment & building costs

Objectives: 1st July 2020-30th June 2021

- To keep the fenced reserve free of pest mammal in accordance with best practise.
- To Maintain the fence/water gates/ Pedestrian & vehicle gates.
- To maintain tracks & roads.
- To work in a manner that promotes health and safety.

Human Resources:

- Operations Team Leader x 0.5
- Operations Support Coordinator x 0.5
- Rangers x 1.5
- Volunteer Team

Performance Measures:

1. To provide a timely & safe response to all breaches.
 - To respond to breaches safely within 90 minutes.
2. Complete annual programme of cutting back tree, plant growth and weed management.
3. Fix fence security and communication failures. (all segments have dual paths).
 - 100% of fence security and communication failures fixed in accordance with protocols.
4. Repair fence breaches.
 - 100% of fence breaches repaired in accordance with protocols.
5. Planned preventative maintenance schedule deployed & completed in accordance with the fence/water gate/Pedestrian gate asset maintenance schedule from 1st July 2020.
6. Track and road maintenance schedule achieved on budget and on time.
7. Delegated work plans achieved within budget and on time.
8. 100% adherence to all health and safety policies and process.

Maungatautari Ecological Island Trust - Sanctuary Mountain Update

Operational Maintenance Plan 2020-2021



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1. PURPOSE OF THE PLAN

The purpose of this plan is to outline all key operational maintenance requirements. It should be aligned to and demonstrate support for the organisation's strategic objectives be consistent with organisational policies and be appropriate to the nature and scale of the organisation's assets and operations.

1.1 OUR MISSION, VISION AND VALUES

To share the Mauri and Mana of the Maunga.

1.2 OUR PARTNERS, CUSTOMERS AND KEY STAKEHOLDERS

Sanctuary Mountain Maungatautari is a community lead project at heart, with passionate and dedicated supporters, many of whom have donated both their time and their resources to support the project. Sanctuary Mountain Maungatautari is governed by a trust made up of members from the community, landowners, and local iwi representatives. A team of passionate and committed staff and contractors, with support from national, regional and local bodies such as the Department of Conservation, Waikato Regional Council (Environment Waikato) and Waipa District Council, and generous public and corporate sponsors, has enabled the maunga to go from strength to strength.

Sanctuary Mountain Maungatautari is a taonga (a natural resource which is highly prized) to mana whenua (local Māori who have a connection with the maunga). Mana whenua work closely with the trust to ensure the maunga is restored to the lush and vibrant eco-system it was in the time of their forefathers.

Sanctuary Mountain Maungatautari has over 400 registered volunteers, many of whom regularly contribute their time to Sanctuary Mountain Maungatautari. They provide significant support to our daily operations with roles including monitoring and maintenance of tracks and tracking lines, monitoring the health and growth of various wildlife species, weeding, and visitor hosting. We are forever grateful for the time and effort this group of passionate people put into the project; we simply could not have achieved what we have without them!

2. RESPONSIBILITIES AND AUTHORITIES

Operational activities are to be undertaken by either Sanctuary Mountain Maungatautari staff or an appropriate contractor. It is the Operations Team Leader's responsibility to ensure that the facility is provided with adequate maintenance service. It is the responsibility of the CEO to ensure that adequate Operations staffing, and funding is provided for Sanctuary Mountain Maungatautari. It is the joint responsibility of the CEO and Operations Team Leader to implement the operational workplan.

2.1 OPERATIONAL ROLES

The Operations Team will carry out the day to day maintenance activities and any reactive repair work. If they are unable to complete the work or the work is beyond their resources or skills, then the work will be allocated to a contractor.

2.2 SCHEDULED WORKS

The following are undertaken to meet statutory or contractual requirements:

- Operational Asset Management Plan

2.3 SERVICE AGREEMENTS

The CEO negotiates various service agreements for the following activities. The Operations Team Leader is responsible for monitoring execution of these agreements:

- Dialler upgrades.
- Culvert replacement.
- Roding.
- Vegetation control

2.4 OPERATIONS RECORDING AND ACTIONING

Work identified by Sanctuary Mountain Maungatautari will be planned for and delivered upon once appropriate funding is found. Completed work will be recorded through two systems ArcGIS and Google drive spread sheets to be backed up in the Cloud.

The Operations Team Leader (or other nominated personnel) will check the recording systems at regular intervals and either:

- Allocate the work to Sanctuary Mountain Maungatautari staff to carry out and complete the records

or

- If unable to complete, refer the matter to a contractor.

Action taken on work allocated to the Sanctuary Mountain Maungatautari staff that subsequently needs to be allocated to a contractor must be recorded within our systems. The staff must keep the Operations Team Leader informed.

3 FIXED SCREEN CULVERTS & WATER GATES

3.1 ISSUE

Recent inspections have identified issues with 14 water gates or fixed screen culverts at Sanctuary Mountain Maungatautari. These issues include slumping of culvert pipes, disconnection of pipe sections and undercutting of water gates.

3.2 FIXED SCREEN CULVERTS

Fixed screen culverts are installed to allow ephemeral water to pass into or out of the sanctuary while preventing pest incursions. It appears that culvert pipes were originally installed in canals with no base course and so several culvert pipes have slumped over time. In some instances, slumping has caused culvert pipes to become disconnected, and erosion of the earth above these disconnections has occurred. This situation poses a risk of pest reinvasion to the sanctuary. Mesh screens have been temporarily installed to prevent pest reinvasion where disconnections have been identified, but a more permanent solution is required. It is difficult to access the culvert pipes to check the rubber seals at connections and to fix disconnected sections of culvert piping. Each culvert pipe will require excavation, repair, and repacking.



Figure 1. An example of disconnected sections of culvert piping.

3.3 WATER GATES

Water gates are installed where streams flow into or out of the sanctuary. Water gates have swinging doors which are fixed with a screen that allows water to pass through while preventing incursions of pests. The gates swing open in instances of high-water flow and close again as water flow subsides. A reed switch sensor is installed on the wall of each gate that is wired to a nearby surveillance box. The reed switch sensor reports when a water gate is open, prompting the Operations Team to check the gate. The hot and dry summer of 2019-20 saw several streams run dry and it appears this has contributed to cracking and erosion around/beneath several water gate headwalls. Recent water gates inspections have identified 7 water gates where there is cracking around/beneath head walls or where water is flowing through the gravel beneath the water gate piping. Each of these water gates require excavation, repacking with collars attached, and reconstruction of the head walls on the inside and outside of the piping.

3.4 COST

Quotes for this are being gathered. Contractors will be engaged for most of this work as it is beyond the expertise of current operations staff.

4. ROADING

4.1 ISSUE

At Maungatautari a road has been constructed adjacent to the pest-proof fence which surrounds the entire sanctuary. It is crucial to the project that the road is maintained to a safe and accessible standard as it is used when responding to fence breaches 24/7. In several areas the base layer of the road has been damaged due to the insufficient depth of surface layer. Consequently, the base layer has lost its strength and potholes and scarring have formed on the road. Additional roading metal needs to be brought in to replace the roads surface layer and both the surface and base layers require reshaping and compacting in several areas.

4.2 LOCATION

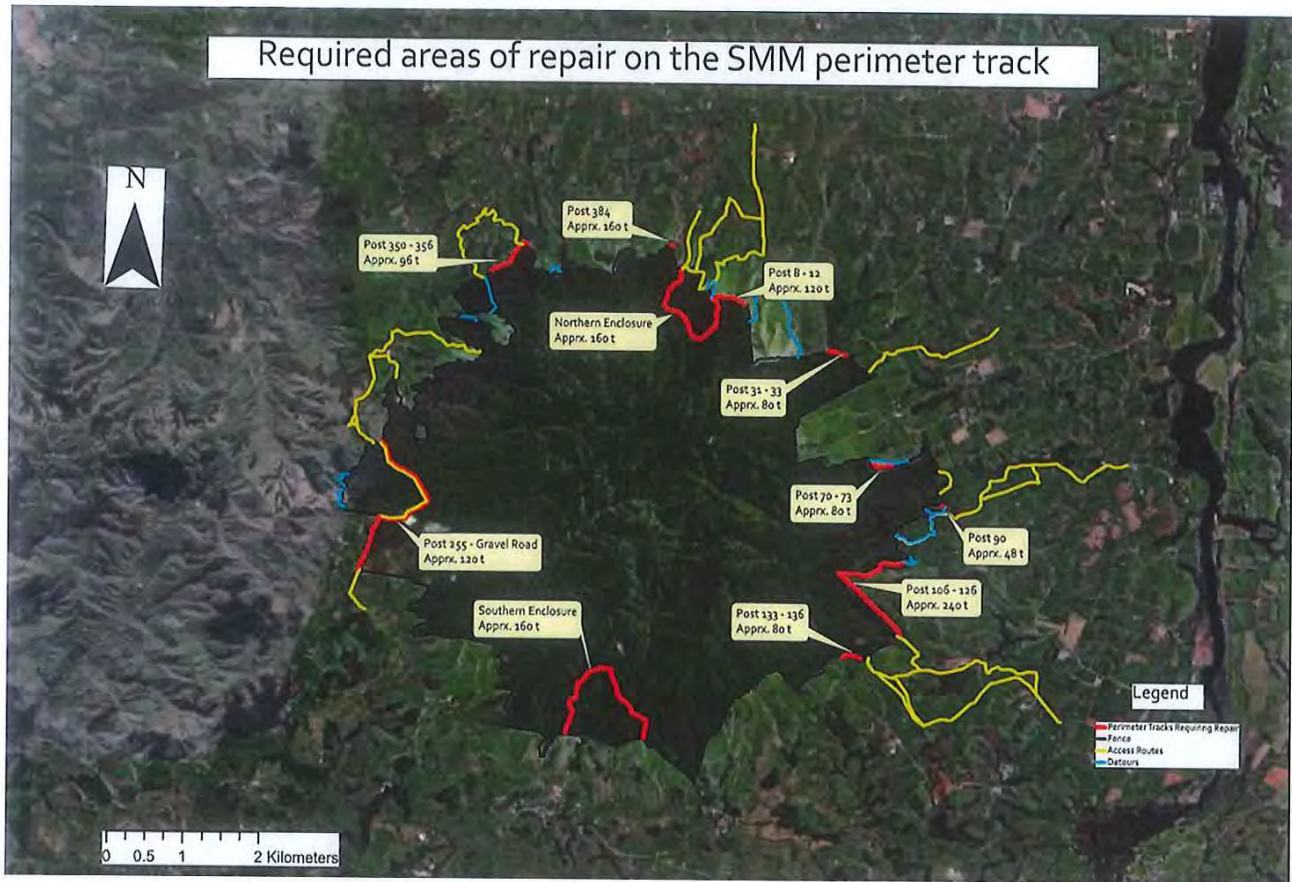


Figure 2. Areas of the sanctuary perimeter road requiring repair.

4.3 COST

Puahue Quarry Earthwork & Drainage Solutions and Hamilton Bros. Contracting are our preferred suppliers.

Required metal = apprx. 1344 Tonnes or 3850m³

Cost of metal delivered = \$25m³ (typical price is \$26.50/m³)

Total cost = apprx. \$95,125.00

5. BATTERY REPLACEMENT

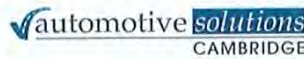
5.1 ISSUE

The Maungatautari pest-proof fence consists of 37 sectors and 44 surveillance boxes running off solar powered batteries. The batteries are used to power an energizer, dialler, an alarm panel, and a surveillance wire. The surveillance wire runs along the top of the fence connecting and supplying power from the 'upper' box to the 'lower' box of each sector. This setup is designed so that if an object (i.e. branch or tree) lands on the fence then the wire will come into contact with one of multiple earthing rings and the lower surveillance box will not

receive power from the upper box. This decrease in voltage is the trigger of the surveillance system’s breach alarm. Several batteries are aging and this, coupled with cold winter weather, and reduced sunlight hours, means they are unable to hold enough charge to power the surveillance wire etc. through the night. In these instances, the surveillance system will not trigger a breach alarm and the team will not be alerted in the event of a fence breach. Replacement batteries and battery chargers need to be purchased.

5.2 COST

Automotive Solutions Cambridge is our preferred battery supplier.



Pingers Ltd Trading as Automotive, 4WD, Tyre & Wheel Solutions
 Address: 16 & 18A Cook Street, PO Box 289, CAMBRIDGE 3450 Free Phone: 0800 00 4712
 Accounts E-mail: admin@autosolutions.co.nz
 Websites: www.autosolutions.co.nz www.4wtsolutions.co.nz www.twsolutions.co.nz

Estimate

MAUNGATAUTARI ECOLOGICAL P O BOX 476 CAMBRIDGE 3450		Date: 30/06/2020	Customer No: 3134		
		Order No: BATTERIES	Our Ref: JAMES		
Description	Qty	Unit	Price	Disc %	Total
SUPPLY BATTERIES AND BATTERY CHARGER.					
BATTERY - 6FM120SX	1		364.00	20.00%	291.20
BATTERY CHARGER IC1000	1		463.00	30.00%	324.10
BATTERY CHARGER IC1500	1		549.00	30.00%	384.30
BATTERY CHARGER IC2500W	1		643.00	30.00%	450.10

Table 1. Cost of replacement batteries and chargers for surveillance boxes at SMM.

6. DIALLER UPGRADE

6.1 ISSUE

Each sector of the pest-proof fence at Maungatautari is fitted with an EDAC SMS 300 dialler. When an object (i.e. branch or tree) lands on the fence it causes the surveillance wire to contact an earthing ring, and the lower surveillance box to not receive power from the upper box. This drop in voltage triggers the surveillance system’s breach alarm and the EDAC SMS 300 sends an SMS (text) message to the Operations Team breach phone. Henry Bettel from EDAC Electronics Limited has been liaising with Tony Ritch from SMM since June 2018 to upgrade the EDAC dialler units. The units are currently equipped with modems that will soon become obsolete as they are only compatible with 3G cellular networks. 3G networks will soon be retired as the 5G network is introduced. Upgrading all dialler units with modems that are compatible with the 4G network is urgent, so that the Operations Team continues to be notified of fence breaches once the local cellular network is upgraded.

6.2 COST

EDAC Electronics is our preferred supplier of upgraded modems and antenna.

All pricing is in New Zealand Dollars and excludes GST

Upgrade with modem only – 4G

Qty	Part	Description	Price	Total
42	EDAC315-4G	Upgrade of EDAC315 with 4G Modem and upgrade operational firmware to the latest version.	\$688.00	\$28,896.00
42	ANT-P	3G/4G Antenna to connect to which ever network signal is available. Antenna will connect to thread with existing antenna	\$182.00	\$7,644.00
1	EDAC315-4G - Rental	EDAC can provide x1 EDAC315-4G for rental that can be used to carry out signal testing at the sites.	Free of Charge	Free of Charge
3	EDAC315-4G - Rental	EDAC can provide x3 EDAC315-4G's for rental that can be used to move from site to site as the others are being upgraded. As these units will be ready for sale the rental cost is to cover replacement enclosures, connectors etc.	\$250.00	\$750.00
1	Freight	Freight and Packaging. Due to the length of the antenna (1.0M) we would recommend that these are sent in no more than x1 or x2 shipments so that they can come in a large box to save on freight and packaging.	TBA	TBA

Table 2. Cost of modem upgrade for EDAC SMS 300 dialler units at SMM.



Figure 3. An EDAC SMS 300 dialler unit.

7. VEGETATION CONTROL

7.1 ISSUE

Vegetation growing close to the pest-proof fence can affect it in multiple ways. Small branches and Ponga fronds can become entangled in the surveillance wire and trigger an unnecessary fence breach alarm. Large branches and dead or dying trees can fall and damage the fence, and potentially allow pests to reinvade the sanctuary. Vegetation growing close from both sides of the fence can create a bridge or jump zone where pests can enter the sanctuary undetected. In the summer months, when ground conditions are dry, vegetation near the fence can be trimmed using a shelter belt trimmer. But, when ground conditions are wet, and in areas of steep terrain, then a pole-saw, chainsaw or hand tools must be used to remove vegetation. Arborists are contracted to remove large dead trees near the fence that need

felling, and this typically involves cutting the tree down in sections or winching the whole tree backwards into the bush.



Figure 4. A hedge trimmer cutting back vegetation near the pest-proof fence.



Figure 5. Tree fall causing major damage to the pest-proof fence.

7.2 COST

Waikato Hedge Cutters is our preferred supplier for hedge trimming.



QUOTE

Sanctuary Mountain
PO Box 476
Cambridge
Cambridge 3450
NEW ZEALAND

Date
8 Jul 2020

Expiry
20 Aug 2020

Quote Number
QU-0002

GST Number
109-070-467

McLeod Agri Limited.
Trading as Waikato
Hedgecutters.
205 Ginn Road RD1
Hunlly.

Description	Quantity	Unit Price	GST	Amount NZD
Hedge Cutting Blade.	100.00	200.00	15%	20,000.00
			Subtotal	20,000.00
			TOTAL GST 15%	3,000.00
			TOTAL NZD	23,000.00

Table 3. Cost of hedge trimming at SMM.

Waikato Tree Services are our preferred suppliers for arborist work at SMM.

Two arborists = \$1480 +gst/day or \$185 + gst/hour

Additional staff = \$68 + gst/hour



Education & Wellness Team.

SDG 3 & 4:

Good Health & Quality Education.

Strategic Objective:

Maungatautari is a Top 20 NZ recognized ecotourism destination & World Class Conservation project.

Theory of change

Reduce inequalities to access to healthful activities

Provide access to quality jobs by telling the Waikato Story & educating our tamariki



Project Expenses

Payroll & Contractors	\$82,200
Programme Expenses	\$4,000
Total Expenses	\$86,200*

*Excludes all administration, equipment & building costs.

Objectives: 1st July 2020-30th June 2021

- To achieve 4500 visitors by 30th June 2021.
- To provide an educational and activity programme of excellence that has a strong cultural, wellness, conservation, and natural history focus.

Human Resources:

- Education Team leader 40 hours per week
- Educator contractors as required by programme.
- Wellness Team leader 8 hours per week.

Performance Measures:

1. 4500 visitors in total from October 2020 to June 2021.
2. Provide a wellness and education programme that achieves a 90% satisfaction rating for the 2020 & 2021 calendar year.
3. Financial targets achieved for the 2020/2021 financial year.
4. Delegated work plans achieved within budget and on time.
5. 100% adherence to all health and safety policies and process.

www.mta.govt.nz

SANCTUARY MOUNTAIN MAUNGATAUTARI

Education Plan 2020/2021

Strategic goal: 2. Maungatautari is a top 20 NZ recognised ecotourism destination	
Strategic objective	Operational objective
2.4 To facilitate and contribute to an education programme to influence our tamariki/children to be aware of their kaitiaki role in conservation and ecological restoration.	2.4.1 To provide an educational programme of excellence that has a strong focus on culture, conservation and natural heritage.
	Targets Provide education programme that meets teachers' needs. Provide supporting programmes for NCEA. Teachers report 90% satisfaction with the service provided. 3500 student visitors annually. 100% adherence to all health and safety policies and process.

EDUCATION

1	Develop standard education programme for Years 5 – 10. Southern enclosure only – 'Ngahere Programme'
2	Create schools database in Clubware
3	Marketing – quarterly education e-newsletter
4	Review H&S documentation for education programme 2021
5	Develop digital pre- and post-visit materials for teachers.
6	Apply for LEOTC funding

Operational initiatives	Actions	Who	When	Performance indicators	Monthly updates
Develop standard education programme for Years 5 – 10. Southern enclosure, 'Ngahere Programme'.	Develop programme outline, activities (content) and resources required for activities.	Tali	Implement as activity and resource development allows in Term 4, 2020. Completed for Term 1 2021.	Trial activities as implementation allows (where suitable school groups have been identified in Term 4). Teacher feedback to feed into changes.	Quotes for resources being sourced and development of resource materials (scrolls) in progress.
Includes booking information and programme evaluation.					

Improve schools database.	Phone schools on the schools directory to ask permission to send out marketing materials. Establish contact person and email address for each school. Waikato Bay of Plenty Auckland	Educators Lian – setting up schools in Clubware as school memberships.	Waikato and Bay of Plenty completed by end of 2020. Auckland 2021.	Schools database with key contact person and email address identified for each school set up in Clubware.	Waikato and Bay of Plenty almost complete. 255 contact emails complete to date (Oct. 2020).
Provide content for marketing materials for education programme. Quarterly e-newsletter sent to new database of emails (Mailchimp).	Create flyer to go to schools for education programme 2021. Gather photos of students engaging in new activities for marketing materials. Update website content for education page. Plan teacher open days/ workshops for end of January 2021.	Jess and Tali Content - Tali. Design – Jess (Sue Chubb) By end of Nov. 2020. Jess and Tali	By end of Nov. 2020. Quarterly e-newsletter – Mid-term.	Flyer developed and sent out to schools on current database Term 4, 2020. Teacher information pack available on website.	E-newsletter to be sent to schools once per term. Term 3 sent. Term 4 in progress. Flyer/ advertising sent by postal system 1-2x per year. Teacher information sent via email in booking communications.
Review H&S documents for education programme.	Review RAMS form. Create SAP Create hazard identification table.	Tali and Dan.	By January 2021.	H&S documentation completed and reviewed for 2021.	RAMS already in use. Updated with information related to Covid-19 guidelines for Level 1 & 2. SAP and hazard register WIP.

<p>Develop pre- and post-visit materials for teachers.</p>	<p>Add pre- and post-visit activity ideas to teacher information pack/ website.</p> <ul style="list-style-type: none"> - Create a pre-visit powerpoint (Nearpod – interactive presentation) for teachers to use in class before their visit to SMM. - Links to youtube clips such as ‘Through the eyes of our volunteers’. - Links to DOC education resources etc. 	<p>Tali</p>	<p>2020</p> <p>Prepare over summer for Term 1 2021.</p>	<p>Activities and links added to teacher information packs and/ or website.</p>	<p>Pre-and post-visit ideas and links to resources sent to teachers along with booking information.</p> <p>Incorporating resource links into education webpage for use by teachers WIP.</p>
<p>Apply for LEOTC funding (MoE).</p>	<p>Contact LEOTC. Identify opportunities to show cross-curricular approach to education programme.</p>	<p>Tali</p>	<p>New funding model to be announced in 2021.</p>	<p>Complete funding application when made available by LEOTC.</p>	<p>Contact has been made with LEOTC online and our contacts have been provided for notification when funding round is opened in 2021.</p>

Future planning:

- Create programme plans that differentiate education programme to meet the needs of NCEA levels 1, 2 and 3, and Cambridge syllabus programmes (already delivering many of these programmes).
- Scope out a plan for overnight camp option for education programme– following build of education centre.
- Scope out connections with education programme and other organisations such as Rainbow Springs, TA museum, Kihikihi Space museum, Waikato museum etc.
- Scope out education membership programme (link to conservation action at school/ predator free NZ initiatives). 2021

Maungatauri Ecological Island Trust - Sanctuary Mountain Update

Sanctuary Mountain Maungatautari Ngahere Education Programme Outline

Themes:

Natural heritage and conservation.
 Sanctuary Mountain Maungatautari as a model of mainland conservation and Predator Free NZ 2050.
 Kaitiakitanga

Key Concepts:

- Maungatautari's unique forest ecosystem
- New Zealand's unique biodiversity/ taonga
- Native, endemic and introduced species
- Interdependence of living things/ whanaungatanga
- Conservation challenges/ threats to New Zealand's wildlife and environments.
- Pest-proof fence/ Maungatautari
- Monitoring and pest control / investigating in science / engaging with science
- Kaitiakitanga - personal and social responsibility for action
- Heritage - changing relationships between people, place and environment

*Note: Mātauranga Māori principles are delivered alongside all key concepts.

Links to the New Zealand Curriculum and Te Marautanga O Aotearoa:

<p>Values (NZC) Excellence Innovation, inquiry and curiosity Community and participation Ecological sustainability Respect</p>	<p>Key Competencies Thinking Using languages, symbols and texts Managing self Relating to others Participating and contributing</p>	<p>Principles Future focus</p>
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NZC Learning Areas:

Science: Nature of Science/ Science capabilities, Living World and Physical World (Technology)
Social Science: Social Studies - Place and Environment (relationship between people and environments), Continuity and Change (understand past, present and imagine possible futures)
Education for sustainability: Sustainability, Guardianship, Interdependence, Responsibility for Action, Biodiversity
Health and physical education: Healthy communities and environments (People and the environment), in which students contribute to healthy communities and environments by taking responsible and critical action.

Key Vocabulary

- Native species (Momo Maori)
- Endemic species (Momo taketake)
- Introduced species (Momo rawaho)
- Pest
- Predator (konihi)
- Habitat (nōhanga)
- Ecosystem (rauiringa rauropi)
- Biodiversity (rerenga rauropi)
- Conservation
- Sanctuary
- Biosecurity
- Restoration (Haumanutanga)
- Sustainability
- Kaitiakitanga - taking action to care for the environment.

Timetable:

10am	Arrive at Sanctuary Mountain
	Toilets
	Welcome/ short introduction/ biosecurity check of bags

	Walk up to event centre
	Begin hikoi (activity stations throughout hikoi) - includes a lunchtime
2pm	Depart Sanctuary Mountain

NB: Shorter timetable for Y1, 2 (and possibly 3, 4).

Ngahere hikoi activity stations (2-2.5 hours):

Activity station	Location	Resources	Time
<p>Pests, monitoring and pest control. (Predator Free NZ 2050)</p> <p>Identify what pest animals have been introduced to NZ and why they are a problem.</p> <p>What is 'Predator Free NZ 2050'?</p> <p>Why does NZ/ Aotearoa need to be pest free?</p> <p>In Te Ao Maori...(damage the mauri).</p> <p>Sequence: Pest animal skins Monitoring (tunnels/ footprints and chew cards) Lures Traps</p>	<p>Event centre</p> <p>Mats for children to sit on.</p> <p>NOTE: Flags are coming for the education programme sponsored by Mother Earth!</p>	<p>Scroll (~\$600-\$700) + hardware to bind the scroll together and a container to store it in \$?</p> <p>Pest skins, chew cards, monitoring tunnel, example footprints, smells (lures), traps.</p> <p>*Add education tunnels/ example footprints for students to find and identify?</p> <p>*Add a trap/ monitoring line walk into the forest with objects positioned correctly?</p> <p>*Videos from John Innes (find a way to organise a screen in the event centre - TV + wifi dongle or chrome cast? Cast videos from our</p>	<p>30- 45 minutes</p>

<p>Rimu tree stories Choose from current Rimu tree stories and/or Forest structure? - Stratification. Who lives where? What are their roles? Use ropes that show the circumference of each tree for junior students to see the size and stand inside the ropes to experience the size of these trees.</p>	<p>Rimu tree</p>	<p>phones or from an education programme tablet??).</p> <p>Ropes that show the circumference of each tree. These are in a container in the event centre storeroom area.</p> <p>Scroll showing diagram of forest structure?</p>	<p>5-15 minutes</p>
<p>Pukatea tree story</p>	<p>Pukatea tree stories.</p>	<p>NA</p>	<p>5 minutes</p>
<p>Birds Story of birds at Maungatauri: past, present and future. Story of NZ birds. The plight of NZ birds. High rates of endemism. In Te Ao Maori... (part of whakapapa), enhance the mauri. Interdependence/ whakawhanaungatanga 5 minute bird count survey technique.</p>	<p>Near Hihi feeder 2.</p>	<p>Birds scroll (\$600-700) - Sponsored by Joce and Nev Dawkins (Joce has helped to put together an outline for the story of birds on Maungatauri and Joce and Nev have offered to pay for this scroll.</p> <p>Bluetooth speaker. 5 MBC file on phone. Other bird calls on phone: Robin, Fantail, Whitehead? *Educators all do 5mbc at different locations to spread it around on a given day? DO NOT DO THIS DURING THE BREEDING SEASON.</p>	<p>20 minutes</p>
<p>Bands</p>	<p>At the junction between the</p>	<p>Example of banded bird.</p>	<p>20 minutes</p>

<p>Why do we band birds? Theory and application of a conservation science technique.</p> <p>How do we use binoculars? Short lesson on the three key aspects of using binoculars to do bird surveys in conservation.</p>	<p>ponga track and the rimu track. *For little kids, this could be the invert hunting station instead. Padlocks on these containers are 866.</p>	<p>Banded bird toys hanging up in the trees, Binoculars. Chart showing codes and colours.</p>	
<p>Tower / snack break</p>	<p>Tower and base of the Northern Rata tree.</p>	<p>NA</p>	<p>20 minutes ½ class goes up the tower at a time. Teacher stays with the other ½ having a short snack break at the bottom. Or kids do the 'unscramble the words' game suggested by Sue.</p>
<p>Rata tree story Biological story of rata tree. Story of the ancestor 'Rata'</p>	<p>Rata</p>	<p>NA</p>	<p>5 mins</p>
<p>Nest boxes Conservation management of species when they are translocated. Old trees in the forest here have got natural cavities. You can build weta motels at school.</p>	<p>Aviary? Or where else could this work? *Challenge: Needs to be somewhere that Kaka can't destroy the boxes!</p>	<p>Set of nest/ roost boxes / toys of species relating to nest boxes. Kaka Hihi Tieke Kakariki Rifleman Kiwi nest box Weta motel Bat roost</p>	<p>10 mins</p>

<p>Bat roosting box?</p> <p>Reptiles/ Invertebrates</p> <p>Which NZ reptiles and invertebrates live in the forest on Maungatautari?</p> <p>100% of our reptiles are endemic!</p> <p>Why are they important?</p> <p>Invertebrates are a vital part of the forest ecosystem as:</p> <ul style="list-style-type: none"> ● Pollinators e.g. bees and butterflies ● Herbivores e.g. stick insects ● Predators e.g. spiders and praying mantis ● Parasites e.g. ticks and lice ● Detritivores e.g. worms (breaking down leaf litter and other organic matter) ● Food for reptiles, birds, bats and other invertebrates <p>Insects are important because they provide food for a range of other organisms, pollinate plants, form soils and help with nutrient cycling.</p> <p>Around 25% of everything alive on the Earth uses soil as a habitat.</p> <p>In Te Ao Maori... (part of whakapapa), enhance the mauri.</p> <p>Interdependence/ whakawhanaungatanga</p>	<p>Along rimu track</p> <p>*New area created by rangers.</p> <p>Area already lends itself to this (used to have a pathway there).</p> <p>NB: Groups need to know that you can't survey reptiles yourself unless you have a permit to do so.</p> <p>Wildlife Act states you must not disturb wildlife.</p> <p>You can create lizard friendly gardens however or apply for a permit to survey lizards at school.</p>	<p>Scroll (\$600-\$700) - see draft</p> <p>Pitfall trap \$?</p> <p>Example stations that demonstrate how to survey for lizards.</p> <p>ACOs and CCFRs.</p> <p>(Janelle to assist with this as she implements reptile surveys).</p> <p>Plastic gecko, ruler, pesola scale (\$?) -demo how reptiles are surveyed.</p> <p>Weta motels</p> <p>Invert containers stored in the event centre. Padlock code: 866</p> <p>Beating sheets - white squares for collecting inverts via leaf shake.</p>	<p>15 mins</p>
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<p>Share some cool/ fun/ interesting things about some of the inverts living on Maungatautari.</p> <p>How can you protect them at home/ school?</p> <ul style="list-style-type: none"> - Create habitat - Create a pollinator palace <p>Plants/ rongoa</p> <p>82% of New Zealand's plants are endemic! (Momo taketake).</p> <p>Did you know that podocarp forests contain the highest biodiversity of any terrestrial (land) ecosystem in the country?</p> <p>Pioneer plants</p> <p>Forest succession: A healthy forest will have many layers of plants – from seedlings and small plants such as ferns and mosses on the ngahere floor to the tall canopy trees at the top. A healthy forest will have many layers of plants – from seedlings and small plants such as ferns and mosses on the ngahere floor to the tall canopy trees at the top.</p> <p>Important roles of plants in the forest. Habitat, shelter, food, nesting materials, nesting sites, provide oxygen (carbon sink), landscape stability, beauty ...</p>	<p>Between stations</p>	<p>Rongoa</p> <p>Kawakawa/ manuka balm.</p>	<p>10 mins</p>
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<p>Over 70% of plants in New Zealand forests have fleshy fruit.</p> <p>Traditional uses of plants - food, shelter, weapons/ tools, medicine (rongoa).</p> <p>Walking time between stations</p>	<p>Inner loop of rata track, nikau and rimu track.</p> <p>NA</p>	<p>15-20 mins of walking between stations.</p>
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Pre-visit and post-visit activity ideas and links on website:

Create activities specific to the maunga to add to the website for teachers. E.g. list of birds, english and maori names etc.

Begin to create digital content to support programmes at Sanctuary Mountain Maungatautari.

E.g. Google Earth project (virtual tour to find out basic facts e.g. 47kms of fence etc.)

Virtual tour? (Google VR or Theasys)

Webquest?

Short video stories of mana whenua content and/or conservation work going on at the maunga.

Nearpod interactive lessons.

Printable booklet for schools - before, during, after visit sections.

Connect pages e.g. before visit - learn your mihi (connection), during visit (use your senses to connect), after visit (I saw... I heard... I felt... i smelled) etc.

Or, Birds around school, observe birds at the maunga, project around protecting and providing habitat for birds at school after.

Ideas for before:

- Send schools a 'padlet' with a 'Know, want to know, questions' chart.

- Send schools a 'nearpod' lesson to get to know SMM before their visit (include video clips and interactive activities).

After visit:

- Send an activity to teachers with choices in the way they respond (student voice):
 1. Written response - send us a letter or a postcard (real or virtual) - use google docs or a class 'Jamboard'
 2. Send us photos of the students with the responses they've done in class (or from their favourite spot in the school grounds)
 3. Send us a 'flipgrid' video response.

Sentence starter choices:

- My favourite part of the trip was...
- I was surprised to find out that...
- Something new I learned today was...etc.

Develop wetland programme next!

Include station on wetland species (scroll): eel migration, Kokopu, Spotless crane, bittern etc.

Working on sorting out new shade sails for the Tuatara area and Takahē signage area. (Graham Parker is sourcing quotes for this work).
Quotes have been sent to Phil and Sue.

Refer to wetland restoration plan in developing this programme.

Build a lizard friendly garden somewhere in the wetland or around new education building to demonstrate what you can do at home/ school?

Maungatautari Ecological Island Trust
Sanctuary Mountain Update

<p>Marketing, Visitor & Sales Team.</p> <p>SDG: 8 Good jobs & Economic Growth.</p> <p>Strategic Objective: Maungatautari is a Top 20 NZ recognized ecotourism destination</p> <p>Theory of change Jobs are created & education and tourism contribute to the Waikato economy by telling our ecological and cultural story.</p>	<p>Objectives: 1st July 2020-30th June 2021</p> <ul style="list-style-type: none"> To achieve 15,000* visitors by 30th June 2021. (*20% less than 2019 due to COVID. Includes education centre visitors). Deliver customer relationship management excellence via the effective management of a robust database. To design and deploy an inclusive process that enables the development of quality tours that contain mana whenua content. To design and deploy an inclusive process that enables the development of quality tours guides, customer service staff and volunteer hosts. To deliver on marketing, sales, donor and funding objectives. <p>Human Resources:</p> <ul style="list-style-type: none"> Visitor Centre Team Leader x 1 (16hrs/wk) Marketing x 1 (40hrs/wk) Data base & Sales x 1 (20hrs/wk) Visitor Centre Customer Services x 1 (32hrs/wk) Visitor Centre Customer Services x 1 (16hrs/wk) Wellness/ Guide Team Leader x 1 (8hrs/wk at weekend) Guide x 1 (8hrs/wk) (Plus On call guide contractors as programme demands) Volunteer Guides & Hosts <p>Performance Measures:</p> <ol style="list-style-type: none"> 15000 visitors for 2020/2021 year including education programme. 300 Inspired Kaitiaki Membership Sales. Budgeted revenue targets achieved for the 2020/21 financial year. Average spend per visitor targets achieved @ \$2.48 (Inc) per visitor. 80% retention of existing kaitiaki supporters. 90% customer satisfaction a per the visitor experience survey. NPS of 85 Delegated work plans achieved within budget and on time. 100% adherence to all health and safety policies and process.
<p>Operating Expenses Marketing & Advertising</p> <p>\$86,000</p>	<p>Good Jobs & Economic growth</p>

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Sanctuary Mountain Maungatautari

Marketing Plan 2020/21

One Page Plan & Supporting Plans

	Strategic Goals 2020 - 2021	Outcome
1	Sanctuary Mountain@ Maungatautari is widely recognised as a world class conservation project.	<ul style="list-style-type: none"> • Visitor numbers in 2020/2021 season to 15,000 visitors (keep in mind border closures due to COVID-19 pandemic) • Increase social media audience and engagement by 300 per quarter on Facebook and 100 on Instagram • 300 Inspired Kaiitiaki memberships per year
2	Maungatautari is a Top 20 NZ recognised ecotourism destination.	<ul style="list-style-type: none"> • Visitor numbers in 2020/2021 season to 15,000 visitors (keep in mind border closures due to COVID-19 pandemic) • Three Kiwi Experiences launched, Nature & Nosh corporate retreats • Launch corporate wellness product and forest bathing product • Launch retirement village product – support Wellness Coordinator • Increase social media audience and engagement by 300 per quarter on Facebook and 100 on Instagram • NPS score improves to 85 or more • Customer satisfaction and perceived value is 90% or more • 80% retention of existing kaiitiaki • 3,500 education visitors for 2020/2021
3	Productive partnerships are a feature of our success.	<ul style="list-style-type: none"> • Establish active and meaningful dialogue with six domestic tour operators. • Visits from 3/6 tour operators in 2020/2021

4	<p>Sound financial management by the Trust and continued donor support, underpins increasing economic viability of the Sanctuary Mountain Maungatautari project.</p>	<ul style="list-style-type: none"> • Retail spend per customer is \$2.49 per person • Guiding income = \$48,000 • Facility Fees income = \$81,000 • Membership = \$17,500 • 300 members of annual pass - \$25 per person per month = \$17,500 • Donations and koha are \$54,542 for the year.
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Summary of 2020/21 Initiatives to address Strategic Goals (refer to following pages for detail of initiatives)

	Maintain and build positive relationships with media
	Strategic communications on matters of the maunga – structured per month, with some flexibility to ensure important unexpected events do not get missed
	Deliver marketing tactics that highlight our species and the work that we do with them
	Attendance at local events that will appeal to our target markets and create greater awareness in our markets (including tourism)
	Regular promotions that drive visitors to the maunga
	Deliver on 12-month membership and donations marketing and communications plan
	Deliver digital content and increase digital brand awareness – and conversion tracking
	Targeted and compelling promotions for donations – focus on VC display too
	Regularly contact in person and via email/phone tourism operators to maintain and form profitable relationships
	Support lead educator in promotion of education programme/tours
	Increased engagement with local businesses, sport franchises and influencers
	Improve website user experience and see analytics grow 20% on previous year
	Roll out sanctuary’s collaboration
	Deliver on partnerships with accommodation, food and beverage and other tourism providers
	Help to develop and promote wellness programmes and events and meet individual event/programme targets
	Get designed and installed signage for directions and enclosures
	Kiwi product promoted with the domestic market and worked into a sponsorship
	Develop communications strategy for carbon footprint project

Strategic Goal 1. Sanctuary Mountain® Maungatautari is widely recognised as a world class conservation project.				
Operational Initiatives	Actions	Who	When	Performance Indicators
2020/21				
Maintain and build positive relationships with media.	<p>News updates are sent monthly to media.</p> <p>Compare media mentions with previous years, increase in press release on "good stories".</p>	JM		<p>Increased social media audience to 8,200 on Facebook and 2,300 on Instagram.</p> <p>Visitor numbers in 2020/2021 season to 15,000 visitors</p>
Strategic communications on matters of the maunga – structured per month, with some flexibility to ensure important unexpected events do not get missed	<p>Marketing works with all members of SMM to ensure matters are addressed in a timely fashion that minimize any negative impact to the SMM brand integrity.</p> <p>Marketing works to provide regular communications to the public and press that will bring more awareness to our brand and activities.</p>	JM		<p>Visitor numbers in 2020/2021 season to 15,000 visitors.</p> <p>Increased social media audience to 8,200 on Facebook and 2,300 on Instagram.</p>
Deliver marketing tactics that highlight our species and the work that we do with them	<p>Redevelop and relaunch Kiwi Experience.</p> <p>Create content plan and implement for kakapo opportunity.</p> <p>Tie in species communications to donations and Inspired Kaitiaki memberships as well as sponsorship messaging. Every month is themed with a different species and activity to bring awareness and interest to SMM.</p>	JM & NH team		<p>Increased social media audience to 8,200 on Facebook and 2,300 on Instagram.</p> <p>Visitor numbers in 2020/2021 season to 15,000 visitors.</p>

<p>Improve website user experience and see analytics grow 20% on previous year</p>	<p>Work with MOCA and provide them with budget to enhance website user experience.</p>	<p>JM</p>	<p>Visitor numbers in 2020/2021 season to 15,000 visitors. Number of visitor's website increases by 20%, bounce rate decreases to 35%, page session time increases by 20%.</p>
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Strategic Goal 2 Maungatautari is a Top 20 NZ recognised ecotourism destination.

Operational Initiatives	Actions	Who	When	Performance Indicators
2020/21 Attendance at local events and tradeshows that will appeal to our target markets and create greater awareness in our markets (including tourism)	Attend eight events per year – with a calendar of attendance. Including tourism tradeshows, local marketings, networking.	JM		Attend eight events per year – with a calendar of attendance. Visitor numbers in 2020/2021 season to 15,000 visitors. Increased social media audience to 8,200 on Facebook and 2,300 on Instagram.
Regular promotions that drive visitors to the maunga	Implement a promotions and events schedule that works in advance with events and key dates for offers (e.g. school holidays, conservation week, mental health awareness week). Strategic promotions to drive visitor numbers and sales. A wellness event calendar is developed and acted upon, with marketing support.	JM		Increased social media audience to 8,200 on Facebook and 2,300 on Instagram. Visitor numbers in 2020/2021 season to 15,000 visitors. 90% customer satisfaction as per the visitor experience survey. NPS of 85 or more.
Deliver on 12-month membership and donations marketing and communications plan	Use species and activities on the maunga to inspire people to become regular contributors – aka Inspired Kaitiaki. Also, to drive the donation to bequest strategy.	JM		300 subscribers of Inspired Kaitiaki membership - \$25 per person per month = \$17,500 A monthly donations and sales promotion.
Deliver digital content and increase digital brand awareness – and	Digital marketing strategy created and implemented that measures conversions to sales.	JM		Number of visitor's website increases by 20%, bounce rate decreases to 35%, page session time increases by 20%.

install conversion tracking	Schedule social media posts strategically – manage with social media schedule. Paid promotions of Facebook and Instagram pages. Get conversion tracking installed, to track Rezdy bookings. Design signage and get printed. Get newly designed signage installed			Increased social media audience to 8,200 on Facebook and 2,300 on Instagram. Visitor numbers in 2020/2021 season to 15,000 visitors. Designs get signed off and printed. Physical signs in place – no visitors tell us they had trouble finding our visitor centre. Three Kiwi Experiences launched, Nature & Nosh corporate retreats Launch corporate wellness product and forest bathing product Launch retirement village product – support Wellness Coordinator Deploy campaign plan designed with tactics and results reported. (Conversion tracking required) Conversion metrics to be added.
Get designed and installed signage for directions and enclosures.		JM		
New products to market (Kiwi Experience, wellness packages, cultural tourism etc.)	Marketing collateral designed and printed Execute plan Kiwi product promoted with the domestic market and worked into a sponsorship. Brief sent to Sue Chubb for design, design complete and taken to market.	JM		
Support lead educator in promotion of education programme/tours	Newsletter advertising Email marketing campaign to targeted teachers in Waikato/Bay of Plenty Create database of schools that consent to being sent marketing information. Implement marketing tactics and strategic communications plan for donations.	JM & Tali		3,500 education visitors for 2020/2021
Targeted and compelling promotions		JM, VC & Lian		Donations and koha are \$54,542 for the year.

for donations – focus on VC display too	Update display every month in VC for theme.			
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Strategic Goal 3. Productive partnerships are a feature of our success.

Operational Initiatives 2020/21	Actions	Who	When	Performance Indicators
Increased engagement with local businesses, sport franchises and influencers.	Forge new relationships with entities that will be interested in working with and financially supporting SMM – through networking events.	JM & Phil		Visitor numbers in 2020/2021 season to 15,000 visitors.
Regularly contact in person and via email/phone tourism operators to maintain and form profitable relationships	Contact/introduce/meet ITOs – present products and new products to them.	JM		Establish active and meaningful dialogue with six domestic tour operators. Visits from 3/6 tour operators in 2020/2021.
Rollout sanctuary's collaborative project	First collaborative promotion September 2020 holidays. Website launch and subsequent promotions. Establish new partnerships. Contact six to work with three – e.g. Waitomo, THL, Otorohanga Kiwi House.	JM & Phil		Visitor numbers in 2020/2021 season to 15,000 visitors.
Deliver on partnerships with accommodation, food and beverage and other tourism providers	Work with Nature and Nosh, Sanctuary Mountain Lodge, Lake District Adventures to promote corporate retreats. Work with Nature and Nosh on Guided Series.	JM & Phil		Visitor numbers in 2020/2021 season to 15,000 visitors.

Strategic Goal 4. Sound financial management by the Trust and continued donor support, underpins increasing economic viability of the Sanctuary Mountain Maungatautari project.

Operational Initiatives 2020/21	Actions	Who	When	Performance Indicators
Through effective marketing, communications and sales profits and funding will increase	Implement marketing plan for 2020/2021	JM		Retail spend per customer is \$2.49 per person Guiding income = \$48,000 Facility Fees income = \$81,000 \$48,000 revenue for kiwi releases 300 members of annual pass = \$17,500 \$54,542 donations and koha revenue



To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **MAUNGATAUTARI RESERVE MANAGEMENT PLAN UPDATE**
Meeting Date: 18 November 2020

1 SUMMARY

The draft Maungatautari Reserve Management Plan (Plan) was presented to the Strategic Planning and Policy Committee (Committee) on Tuesday, 6 October 2020. Following a presentation by Anna McElrea, Senior Reserves Planner and Shelley Monrad from Beca, the Committee approved the Plan and endorsed staff seeking the Conservation Minister’s approval of the Plan. The Plan has been sent through to the Minister of Conservation, and staff are awaiting approval.

2 RECOMMENDATION

That the information from Sally Sheedy, Manager Community Services be received



To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **LANDOWNER AGREEMENT UPDATE**
Meeting Date: 18 November 2020

1 SUMMARY

Following the June 2020 Maungatautari Reserve Committee meeting, Manager Community Services met with Greg Martin to discuss the continuation of landowner agreements. Greg has agreed to continue the work commenced to progress landowner negotiations. An update on progress, along with a revised landowner map will be presented to the first Maungatautari Reserve Committee meeting in 2021.

2 RECOMMENDATION

That the information from Sally Sheedy, Manager Community Services be received



To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **HICKS ROAD ACCESS TO MAUNGATAUTARI SCENIC RESERVE**
Meeting Date: 18 November 2020

1 SUMMARY

A verbal update will be provided at the meeting by the Manager Community Services.

2 RECOMMENDATION

That the information from Sally Sheedy, Manager Community Services be received



To: The Chairperson and Members of the Maungatautari Reserve Committee
From: Governance
Subject: **MEETING DATES 2021**
Meeting Date: 18 November 2020

1 EXECUTIVE SUMMARY

The Local Government Act 2002 requires Council and its Committees to set the dates of meetings, or a schedule of meetings, for a period of time.

2 RECOMMENDATION

That in accordance with the Local Government Act 2002, Schedule 7 Clause 19(6)(a)(b) the Maungatautari Reserve Committee adopt the following schedule of meeting dates for 2021 (generally being the third Wednesday tri-monthly, except January and July):

17 February; 19 May; 18 August; 17 November.