

# **Hibiscus and Bays**

## **Biodiversity and Pest Free Plan**

### ***Hibiscus and Bays Restoration Network***

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## Tauparapara

Mā whero, mā pango, ka oti te mahi.

Ka ngaro te reo tangata, kiki o manu.

By red and by black the work is done.

Human voices are silent except the twittering of the birds.

## Acknowledgements

This plan was developed by a steering group of individuals representing groups involved with the Hibiscus and Bays Restoration Network (HBRN). Different groups have had differing levels of input and many contributed significant amounts of volunteer time. All are acknowledged here.

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Community Hui Photos supplied by Geoff Reid

## Introduction

Improving habitat and eradicating pest plants and animals are an increasingly important focus for New Zealand. With declining bird populations world wide, there is a national desire to turn the tide on declining populations of native species in New Zealand. Communities around the country are coming together to address the issue through collaboration and collective action - agreeing in a common agenda, aligning actions and coordinating monitoring.

It is no surprise then that restoration groups across the Hibiscus and Bays Local Board area have come together to develop this biodiversity and pest free plan. With significant support from the Hibiscus and Bays Local Board the HBRN is committed to working collectively to eradicate pests within its own area and to support other regional initiatives such as the North West Wildlink in connecting bush areas across Auckland.

## Hibiscus and Bays Context

The Hibiscus and Bays Local Board stretches along the eastern coastline of Auckland's northern region. It is bordered by the Northern Motorway to the west and Pacific Ocean to the east. At the northern most end is the small coastal community of Waiwera and to the south the East Coast Bays suburb of Campbells Bay. It also includes the Whangaparāoa Peninsula which reaches out into the Hauraki Gulf, and Tiritiri Matangi Island. In 2013 there were a total of 32,697 households across the area, seven per cent of the regional total. The landscape is diverse and includes many coastal communities, two regional parks (including an open sanctuary), a Gulf island, several scenic reserves and many local parks. It also includes large tracts of private rural land, some of which is under development, a small industrial park and densely populated suburban areas. Below is a list of the unique habitats identified within the Local Board area.

- Coastal margins
- Sandy beaches
- Rocky shoreline
- Rivers / Estuaries
- Mangrove forests
- Wetlands - including stormwater
- Scenic bush reserves
- Island – Tiritiri Matangi
- Mainland Island - Shakespear Sanctuary
- Marine reserves
- Kauri podocarp forest
- Streams – riparian margins
- Semi-rural areas and pasture
- Regenerating scrub
- Sand dunes
- Coastal cliffs
- Sandspit and shell banks
- Urban environment
- Roading corridors - currently pest plant habitat in some areas

## Our Collaborative Process

The HBRN was established in 2015 with support from the Hibiscus and Bays Local Board and the East Coast Bays Community Project. It is a network of local community restoration volunteers and groups who come together to share their success and challenges. Within the context of increasing national and regional support for the eradication of pests, the group began discussing the potential of developing a plan to help guide and focus activities and provide a leverage to source more funding. With assistance from Council's Biodiversity team more local groups and interested parties were identified and invited to join the network.

A steering group of representatives from the different groups and organisations was formed. Supported by an independent facilitator this group met regularly to drive the process forward. A part of this process also engaged the wider HBRN and Hibiscus and Bays community in discussions about restoration and pest management. Two smaller groups were also formed, one focused on developing bird counts and the other focusing on engaging schools and young people.

## An Integrated Ecosystems Approach

As groups in the HBRN align actions and integrate those pieces of work that will give a collective agenda and force, the basic tenets of sound ecological management must be respected and attended to.

Firstly, no pest within an ecosystem whether animal or weed can be seen in isolation. There is a dynamic within ecosystems that involves the interrelationship of actions. To concentrate on a single dimension such as rats for example is simply to change the ecosystem dynamics so that possums or some other pest in the ecosystem becomes the new problem. Accordingly,



there should be an integrated approach to animal pest protection that targets all pests at the same time so that no imbalance is created.

In a wider consideration of integrated planning, there also needs to be a consideration of the best actions within an overall strategy to deal with the greatest immediate threats to biodiversity loss and the easiest actions that will make the biggest change in the ecological dynamic. Individual working groups need to have their independence while at the same time the impact on an integrated action plan must also have some regard.

## Engagement and Alignment

### Community Conversations

In the development of this plan the HBRN gained community input and feedback through two public engagement events. In June 2018 a community hui was held at Te Herenga Waka o Orewa, the local community marae. This event was attended by over fifty people from across the Hibiscus and Bays area. The hui hosted two expert speakers and encouraged discussion and development of community ideas and feedback. The HBRN also developed an interactive display to gain further ideas and let people know how they could become involved in their local area. This display was also featured at the East Coast Bays Community Expo hosted by the East Coast Bays Community Project and Browns Bay Leisure Centre.



### Mana Whenua

The HBRN recognize the role that mana whenua play as kaitiakitanga. Through connection with the local community marae Te Herenga Waka o Orewa, the group is engaging with mana whenua to share the kaupapa of this work.

### Hibiscus and Bays Local Board

The Hibiscus and Bays Local Board has made a significant contribution to the establishment of the HBRN. They recognize that this important work requires a collaborative, long-term approach and they continue to support the work undertaken by the network. The identified aspirations of the HBRN align with the 2017 Local Board outcomes:

- A protected and enhanced environment
- Our community enjoys access to quality parks, reserves and facilities for leisure, sport and recreation
- A strong local economy

### North-West Wildlink

The HBRN supports and contributes to the efforts of the North-West Wildlink *'to restore, create and connect healthy habitats in the North-West so that our native birds and wildlife thrive once again'*. Hibiscus and Bays is a key connector and 'stepping stone' between the safe breeding grounds of the Hauraki Gulf islands and the Waitakere Ranges. The work of the different groups within the HBRN supports the 'Big Backyard' concept – promoting urban regeneration and community involvement, linking backyards across the area and creating safe habitat for wildlife.

## Our Values

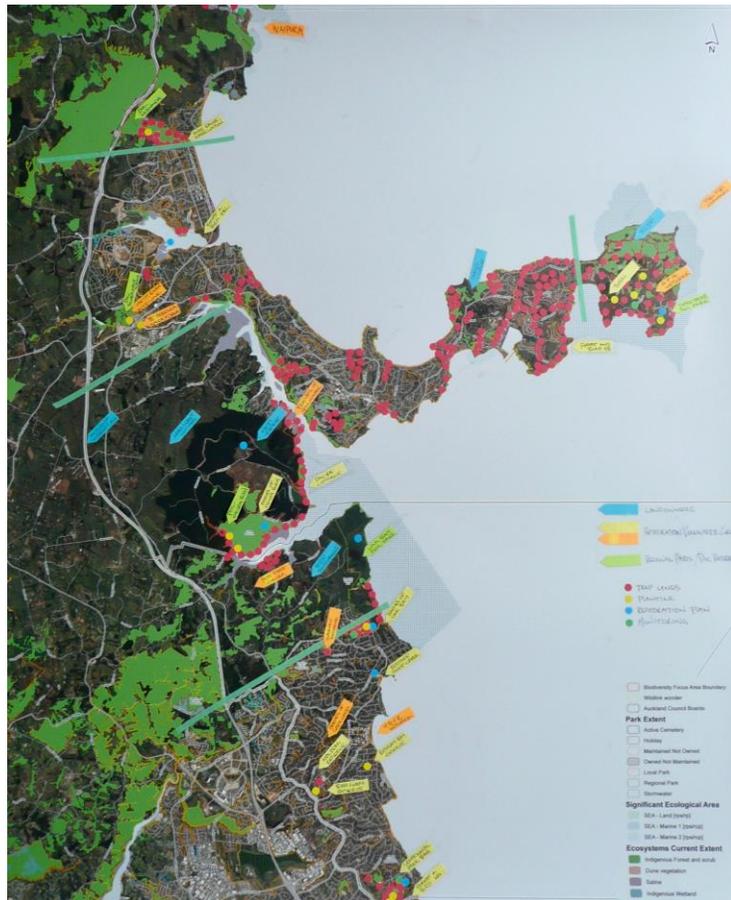
The values listed below were identified as guiding principles for the network going forward.

- **Diversity of Views** – we acknowledge different groups have different methods they employ to achieve results
- **Mātauranga Māori** – we acknowledge Māori worldview and seek to further understand how this can be integrated into our work
- **Science Based** – we recognise that to make good decisions we need robust information
- **Aesthetic Value** – we acknowledge that the experience of nature contributes to positive mental health
- **Community Focused** – we take all opportunities to bring people together through this work
- **Inter-Generational** – we recognise this is a long-term game and young people need to be encouraged and supported to carry on the work
- **Ethical Responsibility** – we take up the responsibility of advocating for nature and species that cannot speak for themselves
- **Collaboration and Partnership** – we know that together all our actions make a difference



## Building on our Good Work – Current Situation

Many volunteer groups are currently active in carrying out pest management and restoration work in both reserves and on private land across the Hibiscus and Bays. All groups are at different ages and stages, some consisting of several volunteers focusing on a local reserve, others facilitating significant landscape scale projects. Many groups are supported in their work by Auckland Council rangers and other staff.



The Hibiscus and Bays is home to two regional parks, with a third, Wenderholm bordering the northern-most boundary. Shakespear Open Sanctuary located at the end of the Whangaparāoa Peninsula is a mainland island and has kiwi, saddleback and NZ Dotterel populations as well as the largest variety of reptile species in the Auckland region. Many of these species have been trans-located from Tiritiri Matangi Island, located 4 kilometers from the end of the Whangaparāoa Peninsula. These and other sites have been recognised as areas of special ecological importance (SEAs). In 2017 Boffa Miskell carried out research identifying Biodiversity Hubs across both Hibiscus and Bays<sup>ii</sup>. A number of groups are currently active in and around these hubs including Hibiscus Branch Forest and Bird (Pest Free Peninsula), Shakespear Open Sanctuary Society (SoSSI), Alice Eaves Appreciation Society (Nukumea Reserve), Friends of Stillwater (Weiti estuary), Friends of Okura Bush (Okura Bush and Walkway) and Centennial Park Bush Society (Centennial Park and Campbells Bay Urban Sanctuary).

Between Stillwater and Long Bay are large areas of rural land, Okura Bush, and the small community of Okura. Several groups and organisations are working to reduce and manage pests and restore native forest in this area including Pest Free Okura, Friends of Okura Bush and Department of Conservation. Other groups are focused around streams and their catchments or local reserves, particularly across the East Coast Bays. These groups include Restore Deep Creek Society (Deep Creek), Friends of Long Bay (Awaruku), Bush Glen Society (Bush Glen Reserve), Taiaotea Creek, Malters and Sherwood Reserve groups.

There are also a number of schools involving students in pest management and restoration activities. Most notably this includes Northcross Intermediate as well as Silverdale Primary School and Orewa College. A full list of groups involved in pest management and restoration activities across the Hibiscus and Bays is documented in Appendix 2.

Left - Map developed as a part of the process showing the different restoration groups and activities across the Hibiscus and Bays

## Hibiscus and Bays Steering Group and Network Opportunity

The way forward and potential governance model and oversight of the plan does need some discussion within the membership. It is important that this is firmly based on a sound platform. This will need to include considerations of representation, capacity to manage finances, human resources and the capacity to speak for the member organisations with the valid imprimatur of the membership. Issues like the instrument that is used to legitimise it being a Trust, a company limited by liability, a simple Board or a society. While some of these elements can be ruled out the format warrants discussion regarding funding capacity, legal capacity and other issues. The issue of representation is also an obvious area for discussion. This will be addressed in due course but in the meantime the Bays Community Project will umbrella funding and contracts. A paper will be produced in due course for full discussion and a governance format determined.

## Biosecurity Challenges

The HBRN acknowledges the biosecurity threats which exist in our region. Kauri dieback is a fungus like disease which lives in soil and infects kauri roots. There is currently no proven cure, and nearly all infected trees die. The disease currently affects forests in Northland, Auckland, Great Barrier Island and the Coromandel Peninsula. Within the Hibiscus and Bays Local Board area it has been found in a number of locations including Okura Bush. Myrtle Rust is also another biosecurity threat to our native and taonga trees such as pohutukawa and ramarama. It is difficult to prevent or treat, and there is currently no known treatment to kill this disease once infection sets in. Community groups working in areas affected by these biosecurity threats will be advised to follow Standard Operating Procedures as advised by Auckland Council, MPI and DOC.

## Other Identified Challenges and Opportunities

In the initial part of the planning process HBRN and other groups were asked about current challenges and opportunities to achieve pest management and restoration outcomes. The responses were themed and form the action planning part of the process. The table presented below shows the themes and some of the issues highlighted by groups in the HBRN.

Action	Engagement and Education	Process Improvement and Regional Connection
<ul style="list-style-type: none"> <li>• Appoint a pest free coordinator</li> <li>• Find resources to scale up what is already happening</li> <li>• Expand contractor support for weed control</li> <li>• Set up new lines and engage the community</li> <li>• Develop social enterprise and apprenticeships</li> <li>• Provide more support for Dotterel and Godwit</li> <li>• Improve use of Kauri Die-back stations – how to enforce them</li> </ul>	<ul style="list-style-type: none"> <li>• Get more people involved – need more local leaders</li> <li>• Connect whole catchments to work together</li> <li>• Improve communications – both across HBRN and externally</li> <li>• Get more schools involved</li> <li>• Engage more actively with residents who provide a buffer zone to regional parks</li> <li>• Provide more support for development of groups and help with funding applications</li> <li>• Align funding - small and large groups within the area competing</li> </ul>	<ul style="list-style-type: none"> <li>• Engage more Hibiscus groups on HBRN</li> <li>• Map out who is doing what and where</li> <li>• Identify collective outcomes</li> <li>• Develop a plan with some key actions</li> <li>• Align with Local Board and community priorities</li> <li>• Improve monitoring – everyone loading data into different places – more time and people for monitoring</li> </ul>

## Our Strategic Plan

The following section outlines the outcomes and objectives, strategic approach and actions identified by the HBRN and wider community. The aspiration is that the plan guides collaboration and future sustainability and furthers the development of all the good work currently undertaken across the Hibiscus and Bays, and supports the establishment of new groups and initiatives going forward.

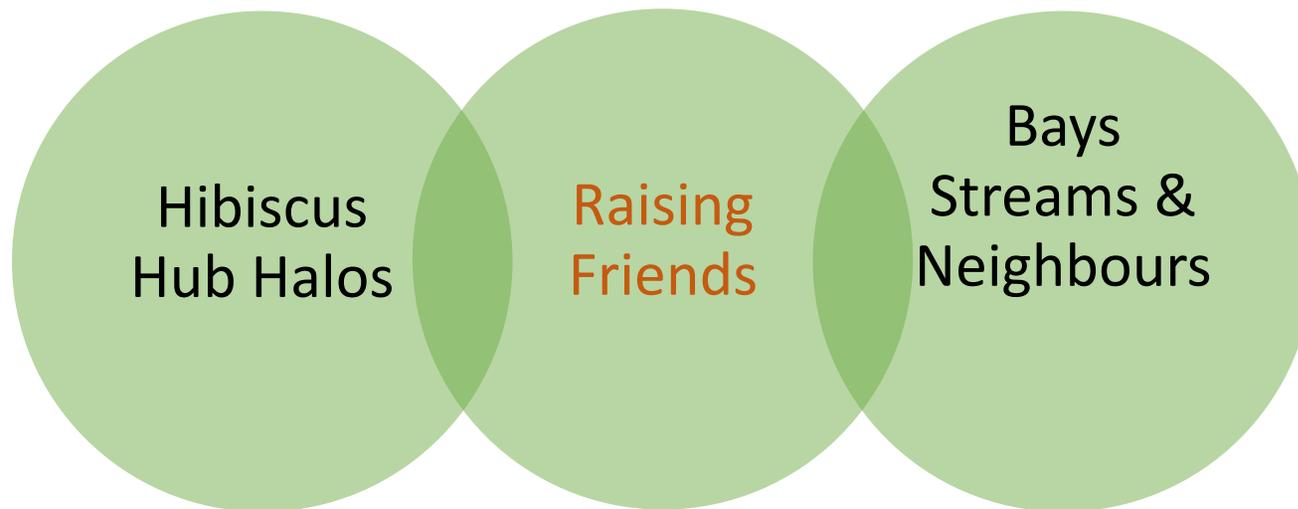
### Hibiscus and Bays Pest Free 2045

<b>Outcomes</b> What we want to see		
<b>Healthy Nature</b> – Our Hibiscus and Bays are a series of unique habitats, connected by the coast and is a destination for birds from the Gulf islands. We value nature and understand that everything is connected. There is an abundance of diversified native species and the bush acts as the lungs for a healthy environment.	<b>Community</b> - Our people are empowered and engaged in their own communities and all our small actions add up to the big picture. Our young future leaders are nurtured and nature literate, <i>connected through bush experience – geared up to continue this inter-generational work</i>	<b>Connected</b> - We share data and make decisions based on good information and continually find creative solutions to inspire, involve and bring people together. We work collectively to play our part in the North-West Wildlink, contributing to our region’s abundant biodiversity.
<b>Objectives</b> What we are aiming for		
<b>Predators</b> – Control animal pests effectively and enhance the density and diversity of native birds and reptiles.	<b>Habitat</b> - Reduce pest plants to low level infestation and protect and improve habitats for native species on public and private land.	<b>Water Quality</b> - Advocate for, protect and enhance water quality and biodiversity in our waterways and at our beaches.
<b>Key focus</b> Responding to our challenges		
<b>Action</b> - We will support effective animal and plant pest control and best practice restoration planning across our Local Board area, sustaining the many diverse groups and increasing the number of areas under effective pest control.	<b>Engagement and Education</b> - We will inspire, encourage and educate more people to actively engage, participate and value healthy nature. We will nurture future leaders, especially young people.	<b>Process improvement and regional connection</b> - We will share systems and processes recognizing the different needs and stages of development local groups and connect, leverage and access regional and national resources and support.
<b>Initial Priorities - How will we start</b>		
<ul style="list-style-type: none"> <li>• Seek funding, develop a role description, and appoint a Hibiscus and Bays Pest Free Coordinator</li> <li>• Seek funding and establish a method of making bait stations and traps available to groups and residents</li> </ul>	<ul style="list-style-type: none"> <li>• Develop a communications and engagement plan</li> <li>• Identify schools currently engaging in pest management and restoration activities and explore opportunities to support those initiatives</li> </ul>	<ul style="list-style-type: none"> <li>• Develop a governance structure for HBRN and establish clear communications across the network</li> <li>• Establish a collective environmental and social monitoring and reporting framework including citizen science</li> </ul>

## Our Strategic Approach

Identifying a strategic approach across such a large and geographically diverse area has been a challenge. The HBRN recognize that to achieve the vision of Hibiscus and Bays Pest Free 2045 will require many helping hands over a long period of time. To be sustainable the purpose, and the work will need to be championed and shared by the wider community, funders and other supporters. Central to this conversation has been the idea that while raising funds is important, raising friends is imperative.

The strategy of Raising Friends is therefore central to this work and at the core of our approach. It involves educating, inspiring and engaging as many people as possible to the purpose and action, including neighbours, friends and visitors, as well as funders, government and non-government agencies and other stakeholders. **“Raising Friends”** is supported by two geographic focus areas – **Bays Streams and Neighbours** and **Hibiscus Hub Halos**.



### Hibiscus Hub Halos

Biodiversity hubs are areas of high ecological value. The Hibiscus Hub Halos approach focuses on supporting and developing the good work already undertaken in these areas.

### Bays Streams and Neighbours

Hibiscus and Bays is a series of catchments. This focus is on the eradication of pest plants and animals along streams as well as enhancing water quality and developing halos.

## Our Action Planning

The below framework categorises actions to help structure delivery. This also specifies who will lead and who will support these actions and a high-level timeframe.

Action Plan		Who Leads	Who Supports	Time frame
<b>Finance and Management</b>	Develop a governance structure for HBRN and establish clear communication channels across the network.	HBRN Steering Group	PF Coordinator	Year 1
	Seek funding, develop a role description and appoint a Hibiscus and Bays Pest Free Coordinator.	HBRN Steering Group	AC Biodiversity, HBLB? ECBCP	Year 1
	Explore opportunities and infrastructure to apply for significant grants and funding that can support the HBRN as a whole	HBRN Steering Group	PF Coordinator	Ongoing
<b>Engagement – Raising Friends</b>	Develop a communication and engagement plan including: <ul style="list-style-type: none"> <li>• Website development and promotional video</li> <li>• Social media strategy</li> <li>• Publications</li> <li>• Events calendar</li> <li>• H&amp;B Pest Free Ambassador</li> <li>• H&amp;B competitions and events (eg Okura Festival)</li> <li>• Campaigns (eg tree protection, weed of the month)</li> </ul>	HBRN Steering Group	PF Coordinator	Year 1
	Assemble a complete database and map of existing and potential conservation/restoration land.	HBRN Steering Group	AC Biodiversity, PF Coordinator	Year 2
	Enable the establishment of more local groups by providing information and support.	PF Coordinator	AC Parks, HBRN SG	Ongoing
	Network support for 'Hibiscus Hub Halos' and 'Bays Streams and Neighbours' to improve the effectiveness of existing groups (this replaces the specific actions relating to all the different groups and their different needs for support across the area).	PF Coordinator	AC Parks, Biodiversity, CEU	Ongoing
	Take an annual snap shot of group activity across the Hibiscus and Bays area (Year 1 – Appendix 3)	PF Coordinator	HBRN	Ongoing
	Identify schools currently engaging in pest management and restoration activities and explore opportunities to support those initiatives and involve more schools and engage young people, including trapping courses (Howick example)	PF Coordinator	AC Sustainable Schools, Parks, Biosecurity	Year 1
	Promote and/or develop practical workshops that focus on applying for grants and funding	PF Coordinator	CEU	Ongoing
	Maintain a contacts and distribution database of local clubs and organisations	PF Coordinator	ECBCP	Ongoing
	Connect with other organisations already supporting neighbourhood groups / facilitating and/or promoting street events (eg. Neighbourhood Support)	PF Coordinator	ECBCP	Year 2

	Advocate for a restoration category within the current Hibiscus and Bays volunteer awards	HBRN Steering Group	HBLB?	Year 1
	Leverage and support North West Wildlink Partnership Group Big Back Yard campaign focused on habitat enhancement linked to HBRN communications	PF Coordinator	NWWL Partnership Group	Year 2
	Distribute weed guides to all local Hibiscus and Bays nurseries and plant centres	PF Coordinator	HBRN	Year 1
	Explore opportunity to develop a community survey about pest plants and animals	HBRN Steering Group	PF Coordinator, HBRN	Year 2
	HBRN representation on the Hibiscus and Bays Tourism Strategy Development Group and explore other opportunities to tap into local and regional planning initiatives	HBRN Steering Group	AUT	Ongoing
	Explore how other PF initiatives across Auckland are engaging effectively with Auckland Transport (merge with below?)	PF Coordinator	HBRN Steering Group	Ongoing
	Advocate for and participate in Auckland wide pest free and biodiversity events	PF Coordinator	HBRN Steering Group	Ongoing
	Engage with other Pest Free groups to compare notes and share learnings (including effective methods of engaging with Auckland Transport?)	PF Coordinator	HBRN Steering Group	Ongoing
<b>Pest Plant and Predator Control Initiatives</b>	Support the implementation of restoration plans across Hibiscus and Bays and identify gaps and opportunities (Appendix 1) and support communities where there is an identified local need for restoration planning, ensuring best practice planning tools are available.	AC Parks	PF Coordinator AC Biosecurity, Biodiversity	Ongoing
	Explore the development of FoOB's land owner Property Pest Plans (PPP) evaluating the current PPP pilot and opportunities for further feasibility.	FoOB AC Biodiversity	PF Coordinator	Year 1
	Coordinate and support local groups in the implementation of current reserve restoration plans across the Hibiscus and Bays	PF Coordinator	AC Parks	
	Secure an on-the-ground person to assist with restoration planning and support.	HBRN Steering Group	HBLB	Year 2 - 3
	Develop a Weed Free Strategy including: <ul style="list-style-type: none"> <li>Identifying high priority areas that require contractor support,</li> <li>'Weed Free streets' and 'Weed of the Month' campaigns</li> <li>Green weed waste drop off</li> </ul>	HBRN Steering Group	AC Biodiversity, Parks, PF Coordinator	Year 2
	Organise and provide training and skills development workshops on predator and weed control and volunteer recruitment and retention for communities across Hibiscus and Bays.	PF Coordinator	DoC, AC Parks, Biosecurity CEU	Ongoing
	Seek funding and establish a method of making bait stations and traps available to groups and residents.	PF Coordinator	AC Biosecurity	Year 1
	Explore opportunity to develop a synchronised programme of pre-feeding, trapping and baiting	PF Coordinator	HBRN	Year 2 - 3
	Advocate to central and local government for the scheduling of significant trees and bush protection.	HBRN Steering Group	HBLB?	

<b>Healthy Streams</b>	Advocate to groups such as Auckland Council Compliance and Health Waters teams to improve stream, estuary and harbor water quality	HBRN Steering Group	HBLB?	Ongoing
	Explore further the role of Healthy Waters and storm water catchment plans in supporting biodiversity and pest management in locations eg Awaruku Wetland.	HBRN Steering Group	Healthy Waters	Year 2
	Promote and support estuarine and stream-side planting and identify new opportunities to improve water quality.	HBRN	AC Biodiversity, Healthy Waters	Ongoing
	Build upon existing inanga spawning work and support community involvement e.g Nukumea Stream and Rothesay Bay stream. Explore new opportunities for similar programmes.	AC Healthy Waters	AC Biodiversity, HBRN, Whitebait Connection	Year 1
	Build upon opportunity to work with businesses in Silverdale area adjacent to Weiti River identified through Streamside Assistance project. Explore opportunities to do similar to work done in Silverdale elsewhere in areas where streams are adjacent to industrial areas e.g. Browns Bay (Taioatea Stream).	AC Healthy Waters	HBRN Steering Group	Year 1
<b>Monitoring</b>	Establish a collective environmental and social monitoring and reporting framework including citizen science – eg. WaiCare	HBRN Steering Group	AC Biosecurity, PF Coordinator, RIMU	Year 1
	Support community and schools who are involved in monitoring water quality and enhancing biodiversity around streams and beaches.	AC Healthy Waters,	PF Coordinator AC Sustainable Schools	Ongoing

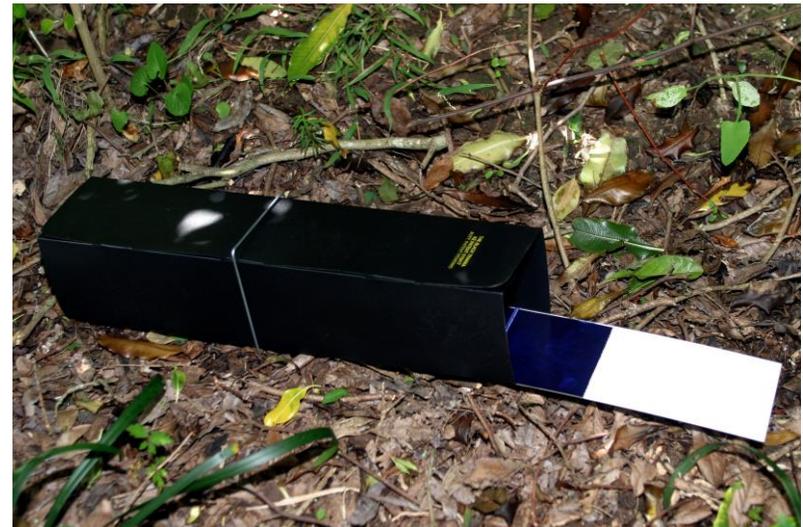
## Monitoring

Monitoring and reporting against outcomes is an important part of the process of pest eradication to show results and effectiveness. To this end the HBRN are very keen to establish some baseline data. There is also enthusiasm for establish and developing integrated bird monitoring across the Hibiscus and Bays. Many groups are currently involved in bird monitoring and the HBRN recognizes that this is a good way to engage and involve the community

## Review

The development of this plan has been an evolution of ideas and relationships. These will continue to grow and change over time and it is therefore intended that this is a living document that can also grow and change to reflect the learnings and experiences along the way. The HBRN also sits within a changing regional and national context, and so with a shared agenda is in a better position to respond to opportunities as they arise. To remain flexible and responsive the HBRN will review this plan every 2 years.

in a positive activity. A small working group has been established to develop this further. Going forward other forms of monitoring may also be considered including chew card or tracking tunnel information to establish baseline data that can further inform the approach and activities and encourage new and improved ways of meeting the objectives.



## Appendix 1.

List of current restoration plans across the Hibiscus and Bays area

1. Okura Walkway Restoration Plan
2. Orewa Walkway Weed Control Plan
3. Orewa Estuary Te Ara Tahuna Community Restoration Plan
4. Centennial Park Restoration Plan
5. Deep Creek Ecological Management Plan
6. Awaruku Wetlands Restoration Plan
7. Northcross Reserve Restoration Plan
8. Bush Glen Restoration Plan

## Appendix 2.

List of acronyms

HBRN – Hibiscus and Bays Restoration Network  
NWWL – North-West Wildlink  
PF Coordinator – Pest Free Coordinator  
AC – Auckland Council  
H&B – Hibiscus and Bays  
CBUS – Campbells Bay Urban Sanctuary

SoSSI – Supporters of Shakespear Urban Sanctuary  
ECB Community Project – East Coast Bays Community Project  
DoC – Department of Conservation  
Waipora – Waiwera Residents Association  
FoOB – Friends of Okura Bush  
CatchIT – Online monitoring software

**Appendix 3.**

List of current organisations and their pest management and restoration activities across Hibiscus and Bays

Area	Location	Group Name	Information
<b>Wenderholm</b>	Wenderholm Regional Park	Auckland Council Regional Parks Northern Wenderholm Volunteers	Restoration plan / trapping for rats and possums / pest plant removal and restoration / track maintenance
<b>Waiwera</b>	Waiwera spit (after 34 The Strand)	Waiwera Residents Association (WAIPORA)	Some rat trapping
<b>Nukemea Scenic Reserve</b>	Alice Eaves Bush	Alice Eaves Appreciation Society and Forest and Bird HBC	Trapping for rats and possums/ pest plant removal and restoration / some tracking tunnels / track maintenance
<b>Nukemea Scenic Reserve</b>	Next to Northeern Motorway and Hillcrest Rd	Department of Conservation	Trapping possums / Kauri dieback stations / track maintenance
<b>Orewa</b>	Orewa Estuary from Western Reserve	Forest and Bird Hibiscus Coast	Restoration plan / new trapping programme being established around the Estuary
<b>Orewa</b>	Crocodile Island	Orewa College	Trapping – ask richard
<b>Whangaparāoa Peninsula</b>	Army Bay to Red Beach (urban)	Forest and Bird Hibiscus Coast	Paint the Peninsular Purple - Trapping rats - over 45kms lines across the Peninsula / bird counts / recording data (PPP) / volunteer events
<b>Whangaparāoa Peninsula</b>	Matikatia / Tindals	Forest and Bird Hibiscus Coast	Trapping rats / pest plant removal (contractors)
<b>Whangaparāoa Peninsula</b>	Army Bay	New Zealand Defence Force	Coordinated trapping with Shakespear / contracted pest plant removal
<b>Whangaparāoa Peninsula</b>	Shakespear Regional Park and halo	Shakespear Open Sanctuary Society (SoSSI) AC Regional Parks Northern	Restoration plan / 500 hectares in fence / 500 hectares outside fence / 400 track tunnels / 500 traps / wildlife monitoring / pest plant removal and restoration / recording data / volunteer events

<b>Hauraki Gulf</b>	Tiritiri Matangi	Supporters of Tiritiri Matangi (SoTM) Department of Conservation	Restoration plan / trapping / pest plant removal and restoration / track maintenance / volunteer events / visitor strategy
<b>Silverdale</b>	Silverdale / Flexmere Reserve	Forest and Bird Hibiscus Coast Conservation Volunteers	Some trapping for rats / pest plant removal and restoration
<b>Silverdale</b>	Silverdale	Silverdale School	Trapping and monitoring
<b>Silverdale</b>	Upper Weiti	Te Herenga Waka o Orewa	Pest plant removal and restoration
<b>Stillwater</b>	Stillwater Park and Estuary (chenier banks)	Friends of Stillwater	Trapping for rats / pest plant removal and restoration / recording data (TrapNZ)
<b>Okura</b>	Okura Bush	Department of Conservation	Trapping possums / Kauri dieback stations / summer Ranger / track maintenance
<b>Okura</b>	Okura Bush, Walkway and Village	Friends of Okura Bush	Restoration plan / trapping for rats / pest plant removal and restoration / bird counts / recording data (CatchIT) / property pest plans / volunteer events
<b>Okura</b>	Warmen Rd and surrounds	Pest Free Okura	Trapping rats and possums / recording data (TrapNZ & PPP)
<b>Karepiro Bay</b>	Coastal margin of Weiti Estate	Dacre Cottage	Trapping rats / pest plant removal and restoration
<b>Weiti Rural</b>	Stillwater to Okura	Weiti Estate	Trapping rats / Enviro plan / covenant (DoC and Council)
<b>Long Bay</b>	Long Bay Regional Park	Auckland Council Regional Parks Northern Long Bay Volunteers	Trapping rats and possums / Enviro plan / pest plant removal and restoration / recording data
<b>Long Bay</b>	Carex Way - wetland in front and Awaruku Bush Reserve Awaruku Rd	Friends of Long Bay	Trapping rats / Enviro plan (wetlands) / recording data (TrapNZ)
<b>Torbay</b>	Deep Creek	Restore Deep Creek	Restoration plan / Pest plant removal and restoration

<b>Browns Bay</b>	Northcross Reserve	Northcross Intermediate	Restoration plan / trapping rats / recording some data
<b>Browns Bay</b>	Sherwood Reserve	Friends of Sherwood	Pest plant removal and restoration
<b>Browns Bay</b>	Malters Reserve	Malters Reserve Volunteers	Pest plant removal and restoration
<b>Browns Bay</b>	Bush Glen Reserve	Bush Glen Reserve Volunteers	Restoration plan developing / trapping for rats / pest plant removal and restoration
<b>Rothsay Bay</b>	Rothsay Bay Reserve	Rothsay Bay Volunteers	Restoration plan / pest plant removal and restoration
<b>Campbells Bay</b>	Campbells Bay Urban Sanctuary/ Centennial Park	Centennial Park Bush Society and F&B North Shore	Restoration plan / trapping for rats / Enviro plan / pest plant removal and restoration / recording some data to CatchIT / bird counts / track maintenance / halo development

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<sup>i</sup> <https://www.northwestwildlink.org.nz/>

<sup>ii</sup> North-West Wildlink Prioritisation Report; Boffa Miskell; April 2017