

PUKENUI FOREST DOG MANAGEMENT PLAN 2017

Pukenui Western Hills Forest Trust

August 2017

OVERVIEW

The dog management plan described herein supports the Pukenui Forest Management Strategy (2007), a site-specific ecological recovery plan. The Pukenui Forest Trust (hereafter called “the Trust”) aims to return Northland brown kiwi to Pukenui Forest, along with other potential reintroductions (see Parker 2014). This dog management plan will guide the Trust in their goal of creating a thriving population of kiwi.

The risk of predation from dogs is a major threat to any kiwi population, especially in smaller forested areas surrounded by high-density human populations, and requires a different approach to management. Ongoing, regular dog management work is essential as it will help ensure the sustainability and viability of the kiwi population the Trust proposes to translocate to Pukenui Forest. Sustained dog management will offer greater protection to the breeding adults within the kiwi population.

This plan describes ways to manage the specific impact of dogs, based on existing and developing knowledge, experiences and research. This will require extensive collaboration with all stakeholders involved in the recovery of Pukenui Forest. This collaboration must be ongoing before and after kiwi are released into the forest.

Pukenui Forest is approximately 2,000 ha in size and is the largest extant forest in the Whangarei District (See Appendix 1, Dog Management Areas Map). It was once kiwi habitat this and its size make it a suitable forest in the local area for sustaining a viable population of kiwi. To support the goal of reintroducing kiwi, the Trust works closely with the Whangarei District Council (WDC), Department of Conservation (DOC) and the dog control service provider Armourguard to achieve active dog control throughout the forest and surrounding area. Armourguard is responsible for responding to dog issues when reported to them. Ongoing observation for dog sign from the Trust ranger, trapper and volunteers or reports from the public will be logged and acted on by Armourguard. Trail cameras will also be used periodically to monitor entry points to the forest. The location for the initial kiwi release is likely to be in from the Three Mile Bush Road side of the forest, an area partially bounded by a dog proof fence at the new Karanui subdivision as part of their consent. This type of fencing would be both impractical and prohibitively expensive to be built around the whole forest and not considered as a viable option.

A programme of advocacy, with the WDC and Kokupa Collective (a grouping of the four trusts around the forest edge) is also ongoing with the following brochure sent out with all dog registrations: <http://www.wdc.govt.nz/PlansPoliciesandBylaws/Plans/State-of-the-Environment/Documents/Save-Kiwi-in-Whangarei.pdf> (see Appendix 3). The focus of future dog control advocacy will be to encourage public pride in Pukenui by advertising the return of kiwi to the forest. Buy in from adjoining landowners and surrounding clubs, vets, schools and other forest users such as the tramping club and geocachers will also be essential to ensure the success of the translocation. The Trust, in partnership with the WDC, DOC and the Kukupa collective will promote the project and will make regular progress “reports” through various channels, including regular media releases in local papers and Facebook.

Background & Purpose

Research on kiwi in Northland has shown dogs are the greatest threat to adult kiwi (Pierce, and Sporle 1997). A dog management plan is therefore a prerequisite to sustainably manage kiwi in the Pukenui Forest. A successful kiwi translocation and subsequent management requires support from a practical, dynamic, robust plan to protect kiwi from their main predator, dogs. This plan will provide guidance to the Trust with the key contact for the trust to be the Ranger, key stakeholders, involved agencies and communities surrounding Pukenui Forest about dog management in and around the forest.

The last confirmed records of naturally established kiwi in Pukenui was in the 1990s (Pierce 2005). These birds were likely to have been the last surviving kiwi in the forest, as there are no verified kiwi records since. Kiwi in Northland have an average life expectancy of 13 years, with 65% of all adult kiwi killed by dogs.

Normally, wild kiwi live to be 40 to 65 years of age. While young birds face predation from cats and stoats, the single greatest cause of adult mortality even in managed populations is dogs. In Northland, kiwi deaths are caused by all types of dogs: pet dogs, working dogs, pig dogs, farm dogs, all breeds, sizes, natures and training. The dogs belong to an equally diverse range of owners; farmers, hunters, lifestyle-block owners and residents.

While there are very effective ways of managing other animal threats (e.g. stoats, cats and ferrets) to kiwi, managing dogs is more complicated, because the cause and solution are one in the same people. Therefore it is vital for the Trust to engage all stakeholders to work towards minimising risks to reintroduced kiwi from dogs. Along the Whangarei City urban edge, where the Pukenui Forest lies, there are urban enclaves, life-style blocks, at least four quarries and farmland (mainly mixed dairy, sheep and beef blocks). Owners of dogs from outside of the immediate boundaries of our dog control zones but from within Whangarei will receive the WDC "Responsible dog owners saving kiwi" pamphlet.

Dog management to protect kiwi will therefore require a mix of strategies to reduce as much as possible the interaction of kiwi and dogs. The geographical location and surrounds of Pukenui Forest predicate the use of several management tools to achieve a successful outcome for kiwi in the forest and on adjoining lands, both for actual animal control, encouraging responsible dog ownership and advocacy.

The Trust intends to minimise risk to kiwi throughout the forest. For ease of management and to deal effectively with dog threats to kiwi, the Trust has delineated target areas for control and advocacy, each with a different mixes of land use, owner and dog types. It has identified the following seven areas local to the forest that will be specifically targeted for dog control advocacy and management.

These seven areas are called management zones. All remain under the jurisdiction of the WDC Dog Management Policy and Dog Management Bylaw which is enforced by Armourguard (Appendix 1).

- Barge Park
- Whau Valley Dam / Whau Valley Road
- Hurupaki / Three Mile Bush Road
- Millington Road / Kara Road / Woods Road
- Clements Quarry / Maunu Road
- Whangarei City / Glendale Road to Fairway Drive
- Pukenui Western Hills Forest

Within each management zone, the Trust will ensure stakeholders are identified, fully informed and engaged with kiwi conservation at Pukenui. A range of approaches is being developed considering the different make-up of dogs and (especially) owners but each approach will have the same general message for kiwi safety through responsible dog ownership. All advocacy will include information about kiwi and what to do and who to contact if a wandering dog is seen (See Appendix 2, a one page action plan for loose dogs).

Dogs are prohibited from entering the forest that in areas that are designated reserve land either by the DOC or WDC, depending on land tenure. Many methods will be used to ensure this prohibition is maintained. These methods are described in the following sections of the plan.

This plan is to be reviewed annually by the Trust and other stakeholders, but if new scenarios occur it can be adapted to suit.

PUKENUI FOREST DOG MANAGEMENT ZONES (DMZ)

General Management Approaches

The following management approaches will be applied throughout and surrounding the forest. Dogs will be monitored around and within the forest, and an action plan will be in place to intercept any dogs seen (Appendix 2).

Key Specific Action Points

Action	Priority	Timing	Stakeholder(s)
A contact phone number for Armourguard will be provided on forest signage so people can ring/report wandering dog's day and night.	Critical	Signs to be erected prior to kiwi release	WDC/DOC
New signage being developed be consistent with the new message "Responsible dog owners saving kiwi"	Critical	Inspect twice yearly	Trust/ WDC
Armourguard Security (WDC animal control contractors) provide response to dog incursions if reported in or around the forest.	Critical	Ongoing	WDC
Public meetings encouraging responsible dog ownership to protect kiwi to be held at four locations (Kara Hall, Quarry Gardens Cafe, Hurupaki School and Kiwi North)	Critical	Prior to each release	Trust/ WDC/ NRC/ DOC
Trail cameras will be discreetly deployed at entry points to the forest.	High	Periodically	Trust
A key landowner or householder who can help monitor dog activity in the area and who knows how to report problems in a timely fashion will be identified and recruited.	Medium	Ongoing relationships	Trust/ WDC
Identified forest users and potential allies will be invited to kiwi releases.	High	At release(s)	Trust
Letterbox information drops will be done by Trust before the release(s), to reinforce the kiwi and dog message with dog registration provided by council.	High	Prior to the release(s)	Trust
Schools will be approached to initiate projects to study kiwi and undertake advocacy projects (e.g., getting children to design pamphlets, posters or tee-shirts) to empower local children and families.	Medium	Ongoing	Trust in collaboration with Kukupa collective.
Fliers about the project will be included with annual WDC dog registration. Encourage WDC to specifically mention Pukenui in their dog related webpage's.	Critical	Annual	Trust/ WDC
Posters about the project will be placed in vet clinics, council offices and dog clubs.	High	Ongoing	Trust in collaboration with Kukupa collective.
Offer to give talks will be given at puppy obedience and dog clubs	Low	Ongoing	Trust
The Trust will raise awareness by giving talks to schools, four public talks; via Facebook page; by writing articles in local papers; by running local events; and by advertising events on local radio.	High	Prior to release/ ongoing	Trust in collaboration with Kukupa collective

Action	Priority	Timing	Stakeholder(s)
Ensure Armourguard is well briefed on the project and is available to respond immediately if dogs enter the forest.	Critical	Ongoing	Trust/ WDC
Use of live capture dog traps	Medium	If required	Armourguard/ WDC

Dog Management Zone 1 — Barge Park

Barge Park Showground's and Kiwi North have a combined area of 88 ha. The land is managed by A&P Society and is close to Pukenui Forest. It also interfaces with the grounds of the Whangarei Museum / Kiwi North bird recovery centre run by Whangarei Museum and Heritage Trust.

Barge Park Showground's is one of critical areas where dog control and management is vital. The park is recognised as a dog exercise area in the Whangarei District Dog Management Bylaw 2013, which states that dogs must be under continuous and effective control. This means dogs can exercise freely off the leash, but dog owners must have in their possession a lead or strap to restrain the dog if necessary. Dogs are prohibited in the Barge Park wetland and the pond system.

The Trust proposes to lobby WDC to change the dog bylaws to more clearly define the dog exercise area as being the upper fields, the slope down to the wetlands and pond system, and the lower fields. The Trust has also begun discussions on creating a fenced off the leash exercise area at Barge Park with WDC, similar to that at William Fraser Memorial Park on Pohe Island. The Trust proposes that the northern side of Te Hihi Stream bordering Pukenui Forest needs to be included in the wetland area to minimise conflict with wildlife.

Signage and policing for the entire Barge Park / Kiwi North area will be critical at the beginning of the programme and will require strong support from the WDC. A public meeting will be held at Kiwi North prior to release to publicise the release and reinforce the responsible dog owners protect kiwis message.

Key Specific Action Points for Dog Management Zone 1

Action	Priority	Timing	Stakeholder(s)
The trust is lobbying WDC to fence an area at the top of Barge Park, away from the forest, to establish a safe dog exercise and agility park. A precedent for a fenced area exists adjacent to the Hatea Bridge bypass.	High	Ongoing	WDC
Appropriate signage in Barge Park will be erected, ensuring dog owners follow bylaws and are aware of the project.	Critical	Immediate/ ongoing	WDC
Signage will be erected at entrances to Pukenui Forest prohibiting dog entry, with a positively worded explanation for the prohibition.	Critical	Ongoing	WDC
Regular patrols will be undertaken by Armourguard.	High	Immediate	WDC
The Trust will work with WDC to change dog exercise area boundaries in the bylaw.	High	Ongoing	WDC
The Trust to discuss with WDC a change to current bylaws to prohibit dogs from north of the wetland.	High	Urgent	The Trust /WDC

Dog Management Zone 2 — Whau Valley Dam / Whau Valley Road

The Whau Valley catchment is administered by WDC and is the source of water for Whangarei City. There is a public walking track from the eastern end of Whau Valley Dam to Barge Park and the Quarry Gardens. There is a public car park and recreation area, which is a dogs-on-leash only area. The Whau Valley Road leading up to the dam is a lifestyle block area. An established Landcare Group is active in the Whau Valley Road area.

Key Specific Action Points for Dog Management Zone 2

Action	Priority	Timing	Stakeholder(s)
The Trust will engage with Whau Valley Landcare group, who are established in the zone already.	High	Ongoing	The Trust / Whau Valley Landcare group
Trust members will engage with Whau Valley School teachers and principal.	High	Annual	The Trust / The school
Signage to Pukenui Forest indicating dog prohibition will be erected.	High	Annual	The Trust / WDC
A dog pamphlet drop will be undertaken in the zone.	Medium	Annual	WDC / Armourguard

Dog Management Zone 3 — Hurupaki / Three Mile Bush Road

The main entrance to the Pukenui Forest is in this management zone. Many different types of park visitors use tracks that start from the main entrance. The surrounding area is made up of a mix of suburban housing and lifestyle blocks.

The Trust has facilitated the creation of a local complementary Landcare Group in this area. The formation of such a group can be based on past Trust history in the area. The Trust, over the years of its pest control work at Pukenui, has spoken to most locals, and there is strong support for the work the Trust has been doing.

Public meetings will be held at Hurupaki School, Kamo Primary School and Kamo High School, all part of the Hurupaki / Three Mile Bush Road management zone. The aim will be to encourage school activities focusing on kiwi in Pukenui Forest.

Subdivision is a critical issue in this zone. This area is a popular area to live in and has seen several recent land developments. Issues surrounding new subdivisions will be dealt with in the “Future Land Development” section of this plan.

Key Specific Action Points for Dog Management Zone 3

Action	Priority	Timing	Stakeholder(s)
Signage to Pukenui Forest indicating a prohibition for dogs and explaining the reasons behind the prohibition will be erected.	Critical	Ongoing	The Trust / WDC / Park users
The Trust will work with existing subdivision Karanui Estate managers and residents to support this message and to monitor it.	High	Ongoing	Karanui Estate residents and managers / The Trust
The Trust will investigate developing a Landcare Group for this management zone.	High	Ongoing	The Trust / Interested zone residents
Trust members will work with Hurupaki Primary School Kamo Primary School and Kamo High School teachers and managers to promote the project.	High	Ongoing	The Trust / School authorities
The Trust will lobby legal entities / authorities to designate new subdivisions as no-dog properties.	Critical	Ongoing	The Trust / WDC / DOC

Dog Management Zone 4 — Millington Road / Kara Road / Woods Road

Most of this area is either farmland, rural dwellings or lifestyle blocks. The area also has a large quarry on Woods Road, a golf course and some suburban houses on Te Hape Road. Currently, there is no public access point from this management zone into the Pukenui Forest.

There are several adjacent farms with working dogs. Owners will be encouraged to carry out kiwi aversion training. This will be offered locally and organised by the Trust so uptake is optimised.

Subdivision is a critical issue in this zone. This area is a popular area to live in and has seen several developments. Issues surrounding new subdivisions will be dealt with in the “Future Land Development” section of this plan.

Key Specific Action Points for Dog Management Zone 4

Action	Priority	Timing	Stakeholder(s)
The Trust will arrange kiwi aversion training for all dogs in the zone.	Medium	Ongoing	The Trust / Kiwi aversion trainers
The Trust will erect signage at non-public entry points to Pukenui Forest indicating dog prohibition and the reasons for the prohibition.	Medium	Ongoing	The Trust / WDC
The Trust will hold a public meeting at Kara Hall.	High	Immediate	The Trust / Kara Hall organisers / Local residents
The Trust will lobby the WDC to designate new subdivisions as no-dog properties.	Critical	Ongoing	The Trust / WDC / DOC

Dog Management Zone 5 — Clements Quarry / Maunu Road

This zone contains the largest of the four quarries that surround Pukenui Forest, and is an important entrance to the forest for the Trusts' trappers. The quarry and other private land such as the Pukenui Estate (a pet free subdivision) divides the forest here. So a good working relationship with the multiple landowners is vital for ongoing management of the forest. The Trust is working on a Memorandum of Understanding (MOU) and a Health and Safety Plan in conjunction with the landowners, which will include a no dog policy at the quarry site. The Trust is also working with the Pukenui Estate for localised pest control in the estate and forest bordering it.

Key Specific Action Points for Dog Management Zone 5

Action	Priority	Timing	Stakeholder(s)
The Trust will complete a Health & Safety Plan and MOU.	Critical	Immediate	The Trust / Clements Road Quarry
Assisting Pukenui Estate with possum control	Medium	Ongoing	Trust/ Pukenui Estate

Dog Management Zone 6 — Whangarei City / Glenvale Road to Fairway Drive

This zone is part of the urban and suburban environment of Whangarei City. In this area, there are public entrances to Pukenui Forest via Kauika Road (West), Quarry Craft Trust on Selwyn Avenue, the Quarry Gardens and the Maddren entrance to the Frank Holman Memorial Track both off Russell Road .

Full-time staff and volunteers are present at the Whangarei Quarry Gardens and Quarry Arts Trust. The Trust will liaise with these organisations to ensure that all public enquiries staff and volunteers deal with include advice about dogs; public-interfacing staff and volunteers should stress that both institutions are dog-free areas, as is the whole forest.

The Kukupa Collective has been formed with the Whangarei Quarry Gardens, the Quarry Arts Trust, Kiwi North and The Trust as working members to plan and coordinate improvements in the area. The established relationship will greatly aid dog management efforts in this zone.

Key Specific Action Points for Dog Management Zone 6

Action	Priority	Timing	Stakeholder(s)
The Trust will erect signage at entrances to Pukenui Forest indicating dog prohibition and the reasons for the prohibition.	Critical	Immediate	The Trust / WDC
The Trust will continue to work with WDC to action sending information about kiwi and dogs in Pukenui Forest with the WDC dog registration packs.	High	Ongoing	The Trust / WDC
The Trust will maintain ongoing relationships with Kukupa Collective, which will be sustained by regular meetings.	Medium	Ongoing	Whangarei Quarry Gardens / Quarry Arts Trust / Kiwi North / The Trust

Dog Management Zone 7 — Pukenui Forest

Pukenui Western Hills Forest is made up of the following three parcels of land:

- Pukenui Forest (DOC-administered portion)
- Whau Valley Catchment (WDC-administered portion)
- Maunu Scenic Reserve (WDC-administered portion)

Several smaller reserves such as e.g. Glendale Drive, around the perimeter will be managed as part of the zone. Together, these public lands total more than 1,700 hectares, and are co-managed by DOC, WDC and the Trust.(Anon 2009).

Pukenui Forest (DOC)

Administered by DOC, the Pukenui Forest comprises 592 ha. It is classified as a Conservation Park under Section 19 of the Conservation Act 1987. Such areas are managed to protect their natural and historic resources, and consistent with this provision, to facilitate public recreation and enjoyment. Dogs are not permitted on any land administered by DOC pursuant to the Conservation Act 1987, including Pukenui Forest, unless the owner is in possession of a written permit issued by DOC or WDC authorising such access. Hunting permits are not issued for Pukenui Forest due to the absence of pigs and goats in the forest by DOC or WDC. The Trust will continue to manage pigs and goats to zero density using specialised contractors approved by DOC to deal with an incursion when and if it occurs.

Whau Valley Water Catchment (WDC)

With an area of 865 ha, the Whau Valley catchment is owned and managed by WDC. A large portion of this catchment — 690 ha (80% of the total area), is classified as Local Purpose (Water Supply) Reserve under the Reserves Act 1977. Most of this area is also recognised as a water catchment under the WDC's Water Supply Bylaw 2000. The land is held in fee simple.

Maunu Scenic Reserve (WDC)

Located in proximity to North Ridge Rise Road and to the north of Millington Road and Golf Harbour Drive, Maunu Scenic Reserve abuts both the Whau Valley catchment and Pukenui Forest. The reserve's total area is 38.7 ha, and it is managed by WDC. The larger of the two land parcels, at 26.7 ha, was acquired under the Public Works Act 1981. As such, it automatically becomes subject to the Pukenui Forest – Ngahere ō Pukenui Management Plan Reserves Act 1977 provisions for scenic reserves. The smaller land parcel was vested on deposit of subdivision plan (Golf Harbour) to WDC.

WDC Dog Management Policy

The WDC Dog Management Policy), prepared under the Whangarei District Dog Control Bylaw 2013, declares the Western Hills and all bush reserves as a no dog zone. This statement is reflected in the Dog Management Bylaw 2013:

<http://www.wdc.govt.nz/PlansPoliciesandBylaws/Policies/Pages/DogManagementPolicy.aspx>

The Dog Management Policy explains that where the ecology of an area needs protection, it is inappropriate to allow dogs into the area, adding that at-risk populations of kiwi are thought to be present in the Western Hills region.

Key specific action points for Dog Management Zone 7

Action	Priority	Timing	Stakeholder(s)
There will be no hunting allowed in Pukenui Forest. Goats and pigs will be controlled to zero density (current situation, August 2017).	Critical	Ongoing	DOC / WDC / The Trust
The Trust will launch a dog / kiwi information programme encouraging responsible dog ownership.	Critical	Immediate/ Ongoing	WDC / DOC / The Trust/ Kukupa Collective
Prominent no dog's signage will be erected at all access points	Critical	Ongoing	The Trust / WDC / DOC

Future Land Development

All future subdivisions on the Pukenui Forest boundary will be encouraged to be dog and cat free. The Trust will also work with the WDC to lobby for a bylaw requiring no-pet subdivisions in the area. Existing and future subdivisions will be encouraged to form Landcare Groups to eliminate any threat from domestic dogs and cats to fauna in Pukenui Forest.

Key Specific Action Points New Subdivisions

Action	Priority	Timing	Stakeholder(s)
Lobby WDC to adopt a dog- and cat-free policy for future subdivisions.	High	Immediate	The Trust / WDC / DOC
Persuade developers of the positive effects for all when a pest-free, restored forest borders their subdivisions.	High	Immediate	The Trust / All stakeholders / Property developers
Ensure all sales and purchase agreements are clear where dogs and cats have been excluded from subdivisions, if this mandate is achieved.	High	Immediate	WDC / The Trust / Developers / Real estate agents

ADVOCACY

Messages will be developed to encourage buy-in and pride in the local area and in the kiwi Pukenui Forest supports. Working with the Kukupa Collective we will have an educational component including posters, school programs art exhibition and ongoing messages through social media. The overarching key message will be that everyone can play a part in ensuring kiwi will thrive adjacent to Whangarei City. The overall focus will be threefold: 1) to keep dogs out of Pukenui Forest areas, 2) to provide kiwi aversion training for both pet and working dogs, 3) to have dogs under control and 4) using passive monitoring methods such as trail cameras at entry points or throughout the forest to detect dog incursions. It is expected that when dog aversion training is offered by the Trust using approved trainers up to sixty dogs a day will be trained, with adults needing annual refreshers and younger dogs six monthly.

As part of the advocacy for kiwi and the forest in general the Trust will offer volunteering opportunities assisting with ongoing and new projects into the future.

The Trust will use the respective Trust pukenuitrust.org.nz, Trusts Facebook page <https://www.facebook.com/Pukenui-Western-Hills-Forest-Trust-232622196771303/> and WDC websites, and <http://www.wdc.govt.nz/CommunitySafetyandSupport/Dogs/Pages/default.aspx> to promulgate our message about the Pukenui project. The Trust also has an active social media presence via a Facebook page specific to the Trust work. Pamphlet drops will be carried out in areas adjacent to the forest, and community workshops will be held by Trust advocates to inform the public about the project and the special care kiwi require in relation to the threat from dogs. We also intend to engage with all landowners / groups / stakeholders situated on the forest perimeter. Kiwi listening will be undertaken and this will be an opportunity for the public to be involved and will be advertised on Facebook.

Main messages

- Any dog can kill a kiwi.
- Responsible dog owners saving kiwi
- It takes a whole community to protect kiwi from dogs and cats.
- Kiwi can live on average to be 40 to 65 years, but in Northland the average age is just 13 years because of dogs.
- Dogs and kiwi don't mix 65% of adult kiwi here in Northland are killed by dogs.
- Get your dog to regular kiwi aversion training once is not enough, and the training is free
- It only takes one dog. Keep your dog under control.
- Be a responsible Kiwi. Know where your dog is at all times.
- It is not necessarily someone else's dog it could be yours!
- Do exercise dogs in designated exercise areas avoid the bush.
- Tie dogs up or kennel or keep inside they don't spend all night on the doorstep.
- Neither do cats keep them indoors at night.
- Avoid using possum-hunting dogs in kiwi areas.
- A dog may eat toxin in kiwi release areas — it is safer to keep your dog at home.

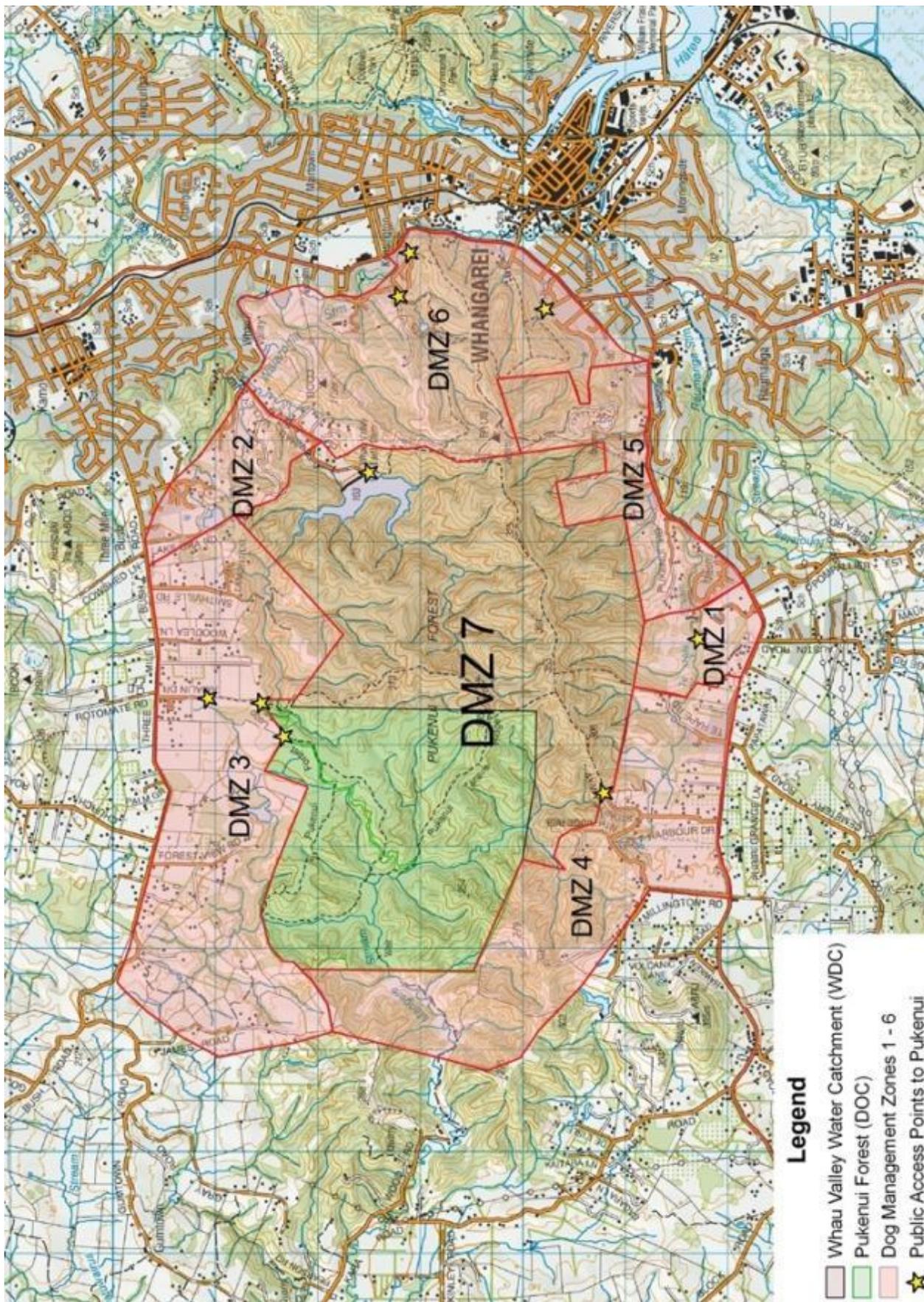
SUMMARY

This plan offers a multi-faceted approach to mitigate the adverse effects of dogs on kiwi in and around Pukenui Forest. With the overriding message that "Responsible dog owners saving kiwi". The challenges inherent in managing dogs in an urban area are multiple and ongoing, but the Trust will commit to regular monitoring of the measures put in place to manage dogs, as described in this plan. The Trust also commits to a regular review of this plan to ensure it is improved, dynamic and strengthened over time.

References Used in Creating this Plan

- Anon, 2009. Pukenui Forest – Ngahere o Pukenui Management Plan. Department of Conservation and Whangarei District Council.
<http://www.wdc.govt.nz/FacilitiesandRecreation/ReservesandOpenSpaces/ReserveManagementPlans/Documents/Pukenui-o-Ngahere-Management-Plan-2009.pdf>
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- Pierce, R. J. and Sporle, W. 1997 *Causes of kiwi mortality in Northland*. Wellington, New Zealand: Department of Conservation.
- Pierce, R.J., 2005, Restoration of Pukenui Forest/Ngahere o Pukenui, Whangarei, Contract Report No.1063 prepared for Whangarei District Council, Wildland Consultants, Whangarei.
- Renwick, Nicky, et al. 2009 "Taxon Plan for Northland brown kiwi." *Draft report (version 1)* 12 (2009).
<http://www.doc.govt.nz/about-us/science-publications/conservation-publications/native-animals/birds/taxon-plan-for-northland-brown-kiwi/>

Appendix 1: Pukenui Dog Management Zones Map



Note: Signage will be placed at all public access points to the forest and other strategic locations such as around Barge Park.

Appendix 2: Community Action Plan for Uncontrolled Dogs

Community Action Plan for Uncontrolled Dogs

If you see a stray or wandering dog, please report it to Armourguard straight away on: 09 438 7513

If you maybe able to catch the dog:

PERSONAL SAFETY COMES FIRST!

- Contact the owner if known and inform them that their dog was caught in a kiwi area.
- If the owner is not known, contact Armourguard straight away on **09 438 7513** (24hrs).
- Advise Armourguard that the dog has been caught in the Pukenui Forest area and for them to come and pick it up

If you are unable to catch the dog:

- Obtain a good description of the dog (and/or get a photo)
- Contact the owner if known and advise them when and where you have seen their dog, and ask them to catch it immediately
- And/or phone Armourguard, give them the description of the dog and tell them that it is roaming in a kiwi area
- Phone your neighbours to advise them that there is an uncontrolled dog in the area

If the above plan does not work:

- Phone Whangarei District Council (WDC): **0800 WDC INFO (0800 932 463)** and ask to speak with someone about dog control if on WDC land.
- **Or** DOC 0800 DOCHOT (0800 362 468) if on DOC land.
- If you are calling outside of office hours please leave your contact details with the 24 hour answering service and tell them that dogs are roaming in the Pukenui Forest. They will pass this on to Armourguard who will then contact you for more details.

If the dog is seen uncontrolled again:

- Phone Armourguard to inform them this dog has been seen repeatedly uncontrolled and request action be taken

FOR YOUR MISSING DOG:

- Make a concerted effort to find your dog ASAP
- Phone Armourguard as they may already have your dog
- Phone your neighbours (including Pukenui Forest Trust, DOC or WDC) so they can keep a look out
- Don't forget to let your neighbours and others called know when you have recovered the dog.



Appendix 3: Save Kiwi in Whangarei District (brochure)

<http://www.wdc.govt.nz/PlansPoliciesandBylaws/Plans/State-of-the-Environment/Documents/Save-Kiwi-in-Whangarei.pdf>

Further Information
 Department of Conservation
www.doc.govt.nz
 Kiwis for Kiwi
www.kiwisforkiwi.org
 Kiwi Coast
www.kiwicoast.org.nz
 Northland Regional Council
www.nrc.govt.nz



Armourguard
 7B First Ave, Avenue, Whangarei 0110
 Phone: (09) 438 1637
www.armourguard.co.nz


Kaipara District Council
 6 Molesworth Dr, Kaipara, Mangawhai 0505
 Phone: 09 430 4200 Toll Free: 0800 727 099
www.kaipara.govt.nz


Whangarei District Council
 Private Bag 7023, Whangarei 0148
 Forum North, Rust Avenue, Whangarei
 Phone: 09 438 4200 Facsimile: 09 438 7652
 Toll Free: 0800 WDC INFO (0800 932 463)
 Email: mailroom@wdc.govt.nz
 Website: www.wdc.govt.nz



**Responsible
dog owners
saving kiwi**

www.kaipara.govt.nz
www.wdc.govt.nz

**Did you know
that the biggest threat
to adult kiwi is from dogs?**

Kiwi are very easily crushed, as they lack a sternum and have weak chest muscles. They also have a very strong smell, which makes them interesting to dogs and easy to track.

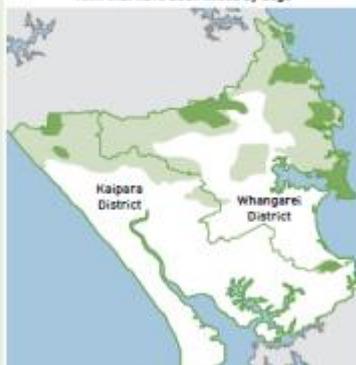
As a responsible dog owner you are an important ally in helping save Northland kiwi.

You can help protect your kiwi by:

- Taking your dog to an approved dog exercise area for some off-lead fun. There are lots of these around, including dog parks, beaches and reserves. You can find these on your local council website www.wdc.govt.nz and www.kaipara.govt.nz
- If you aren't in an approved exercise area and you are out walking with your dog, please keep it on a lead.
- Keep your dog in an enclosed area to keep it from wandering when it is at home.
- If you have working or hunting dogs you can sign up to put your dogs through kiwi evasion training. This will help them to recognise kiwi are off limits. Contact your local DOC office for details.
- If you no longer want your pet, or are unable to care for them, please find them new homes or take them to an animal management facility.
- Register your dogs and have them de-sexed if you don't intend to breed from them.



Kiwi that have been killed by dogs



Kiwi Distribution High Density Present

Northland brown kiwi live in some surprising places! They prefer damp gullies in native forest and dense shrubland, but they are also found in forestry blocks, rough pastures, and around wetlands. You might even find one on the edges of our roads.

Kiwi populations in Northland have declined greatly due to predation. The good news is that thanks to the efforts of our communities doing predator control, managed populations of Northland brown kiwi are increasing.

You can check out all the good work being done in your area and how you can get involved on the Kiwi Coast website www.kiwicoast.org.nz or by contacting your local DOC office.

Pet free subdivisions are becoming more common in Northland, particularly in the Whangarei District. Dog and cat free subdivisions are created primarily to help protect kiwi and other native animals. If you think pet free conditions in such areas are not being complied with, identify the likely property and contact Armourguard or your council.



If you see a stray or wandering dog, please report it to Armourguard straight away on **09 438 7513**

• Appendix 4: Report of a dead kiwi

