### **Part Two: Action Plan and Rationale**

## 9. Action plan

In order to establish healthy and resilient indigenous biodiversity within Wellington, we need to focus on certain areas. We need to protect what we have, we need to restore what is degraded, we need to research the requirements of our biodiversity and the best methods for looking after it, and we need to connect people to it.

These actions are covered under the following areas: protect, restore, connect and research.

Many of the actions will be funded through budgets developed for the relevant asset management plans and annual plans.

Other actions will be funded through alternative budget sources. This means funds will be sought from sources such as sponsorship and grants in liaison with key internal and external partners such as government agencies, educational institutes and non-government-organisations. The actions outlined in this plan will be prioritised as part of Wellington City Council's planning and budgeting processes and itemised into work programmes.

Funding:
N = New funding required
E = Existing funding
Ex = Expansion of existing funding or
reprioritisation within existing resources

Priority:
1 = Action essential to success of plan
2 = Action important to the success of plan
3 = Action useful to the success of the plan

Time frame for completion:
Ongoing
Short (1-3 years)
Medium (3-5 years)
Long (5-10 years)

### 1. PROTECT

#### GOAL 1.1 - Priority biodiversity sites on public and private land are protected

Objectives	Actions	Funding	Priority	Timeframe
<b>1.1.1</b> Protect all areas of ecological significance on Council-owned	a. Ensure that all ecologically significant areas on Council-owned land are vested as reserves	E	1	Ongoing
land through active management, working with partners such as Greater Wellington Regional	b. When reviewing or preparing reserve management plans, ensure that biodiversity is recognised and provided for	E	1	Ongoing
Council (GWRC)	c. Create ecological management plans for all areas of ecologically significant public land, linking with local community groups, GWRC and iwi where applicable	E	1	Long
	d. Develop a master plan for Te Kopahau Reserve	E	1	Short
1.1.2 Identify and protect all areas of ecological significance on privately owned land through District Plan protection	a. Review Conservation Sites listed in the District Plan as part of the DP review	E	1	Short
	b. Include in the District Plan mechanisms to better protect significant ecological areas on private land	E	1	Short
	c. If there is an ecologically significant site on Open Space zoned land, investigate changing that zone to Conservation	E	3	Medium

GOAL 1.2-Rare, threatened or locally significant species are protected

Objectives	Actions	Funding	Priority	Timeframe
1.2.1 Work with partners, including the Department of Conservation (DOC), community groups and others, to ensure that no nationally or regionally threatened or	a. Partner with relevant organisations for the in-situ and ex-situ protection of threatened species through the development of action plans for nationally or regionally threatened and locally significant species	E	1	Ongoing
locally significant species is lost to Wellington, and ensure that genetic diversity is retained as far	b. Work with partners to locate and map all nationally or regionally threatened and locally significant species	Ε	1	Ongoing
as possible	c. Be actively involved in the New Zealand Indigenous Flora Seed Bank by contributing knowledge, seeds and appropriate permits.	E	3	Ongoing
1.2.2 Ensure that animal pest	a. Develop a set of guidelines for animal pest	E	1	Short
control is sufficient to allow for the survival of nationally or regionally	control methods based on the biodiversity outcomes we want to achieve	E	1	SHOLL
threatened and locally significant species	b. Establish the optimal bait station network across our reserve network and the frequency with which this network needs to be maintained	Ex	1	Short
	c. Ensure that animal pest control within a buffer zone around Zealandia is sufficient to allow for successful breeding	Ex	1	Short
	d. Establish criteria and protocols to decide which species within Wellington warrant additional protection if discovered through monitoring programme	Ex	2	Short

GOAL 1.3 - Pest species are controlled to sufficient levels to protect our biodiversity, and eradicated if possible

Objectives	Actions	Funding	Priority	Timeframe
1.3.1 Control pest animals and plants that threaten sites of ecological significance	a. Develop a revised pest management implementation plan and review the pest management programme to determine whether the size, scope, scale, intensity and duration are likely to sustain viable populations of key species (including vegetation and processes, birds, lizards, fish and invertebrates) within the Council's open space network and where possible on relevant private land	E	1	Short
	b. Carry out pest control based on priority sites in accordance with ecological significance criteria and priority threats	Е	1	Ongoing
	c. Support other organisations carrying out control activities that fit with Council priorities	E	1	Ongoing
	d. Expand the number of hectares of ecologically significant public land under integrated pest control from 52% in 2014 to meet agreed target of 70% by 2020 and 100% by 2025	Ex	1	Long
	e. Identify and address gaps in the possum control network	N	2	Medium
	f. Adapt the National Pest Control Agency guidelines for ethical and humane practices for animal pest control for use by Council, its contractors and volunteers	Е	3	Short

1.3.2 Control pest animals and plants with the greatest potential to have adverse impacts on indigenous biodiversity	Work with GWRC to maintain a list of     Wellington pest plants with the greatest     potential to increase their range and pose a     threat to areas of ecological significance, and     prioritise their control	E	1	Ongoing
	b. Carry out pest control based on priority species with the greatest potential to have adverse impacts, across all public land	E	1	Ongoing
	c. Work with other organisations (including GWRC, DOC, Predator Free NZ, Zero Invasive Predators) to ensure we are using the best methodologies for controlling pest species	E	1	Ongoing
	d. Protect key lizard populations in known high priority areas – review pest control for mustelids, hedgehogs and rodents; particularly in south coast parks such as Red Rocks, Moa Point, Point Dorset, Tarakena Bay and Palmer Head	Ex	1	Short
	e. Continue sustained control of feral goats across the south-west peninsula with the ongoing aim of ultimately eradicating feral goats. Continue to seek more tools including regulatory tools to achieve eradication	E	2	Ongoing
	f. Work closely with the New Zealand Transport Agency (NZTA) and OnTrack to remove significant environmental pest plants from transport corridors not owned by the Council	N	2	Medium
1.3.3 Increase the area of land under integrated pest control by	a. Support the capacity of new and existing community groups to engage in pest animal	Ex	1	Short
supporting landowners, occupiers	and pest plant control			
and community groups to take an active role in controlling pest plants	b. Implement animal pest control in the areas of rural land to the south-west of Zealandia	E	2	Short
and animals and preventing the spread of pests in the city	c. Work with other stakeholders to explore the possibility of making Miramar Peninsula pest free	Ex	3	Long

 ${\bf GOAL\,1.4-The\,impact\,of\,urban\,growth\,and\,human\,activity\,on\,all\,ecosystems\,and\,remaining\,habitat\,is\,managed}$ 

Objectives	Actions	Funding	Priority	Timeframe
1.4.1 Ensure that all ecological and recreation values of open spaces are recognised in the District Plan, including for their future potential as part of a city green network, and for the ecosystem services they deliver such as health and wellbeing benefits	a. Identify all sites of ecological significance and sites that are important, or could be, for maintaining or enhancing connectivity between ecologically significant sites.	Е	1	Short
	b. Initiate a review of Conservation sites in the District Plan to ensure that all the sites identified in 1.4.1.a on public land (including important buffer zones and corridors) are listed as Conservation Sites or Open Space	Ε	1	Short
	c. Seek to protect all the sites on private land sites identified in 1.4.1.a through a review of Conservation sites in the District Plan, voluntary agreements and /or acquisition	Е	1	Short
	d. Identify areas of road reserve that could be reclassified as reserve and carry out road stopping, where those areas are not needed for roading purposes, they contain forest remnants or significant vegetation over 0.5ha in area and adjoin an existing reserve	N	2	Long
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<b>1.4.2</b> Increase regulatory protection through the District	a. Provide specialist ecological advice on District Plan changes and conditions on consents	E	1	Ongoing
Plan provisions for all sites of ecological significance (including ecological linkages) to	b. Ensure District Plan changes adequately protect biodiversity values through goals, policies and rules	E	1	Ongoing
prevent further clearance and fragmentation	c. Monitor regulatory effectiveness to ensure that compliance around biodiversity protection and restoration is achieved	Ex	2	Ongoing

1.4.3 Reduce impacts of urban development and land-use on	Assist Wellington Water and stakeholders to     complete Integrated Catchment Management	E	1	Ongoing
aquatic ecosystems	Plans for Wellington's eight catchments:			
aquatic ecosystems	Lambton Harbour/Oriental Bay, Evans Bay,			
	Island Bay/Houghton Bay, Lyall Bay,			
	South-east Coast, Owhiro Bay, Kaiwharawhara,			
	and Onslow/Ngauranga/Horokiwi			
	b. Work with GWRC and within the Council to	Ε	1	Ongoing
	ensure no new permanent barriers to fish	_	'	0.1.909
	passage are created through works in streams			
	or stormwater systems where these link			
	significant stream habitat together.			
	c. Ensure that Council chemical use has no net	Ε	1	Ongoing
	negative impact on aquatic ecosystems			
	d. Build on our relationship with partners working	Ε	1	Ongoing
	on the protection of the marine environment,			
	focussing on education programmes.			
	e. Retain all streams on reserve land in	Ε	1	Ongoing
	a natural state			
	f. Under District Plan provisions, and considering	Ε	1	Short
	the approach set out in Policy 43 of the RPS			
	(protecting the aquatic ecological function			
	of water bodies), prevent any further loss of			
	whitebait spawning sites, and require that any			
	significant works within whitebait spawning			
	areas restores their operation			
	g. Integrate best practice WSUD into Council projects	Ε	2	Ongoing
	h. Complete mapping of streams as part of asset	Ε	2	Short
	mapping of all stormwater infrastructure			
	i. Develop technical detail of Water Sensitive	Ε	2	Short
	Urban Design (WSUD) in the Code of Practice			
	for Land Development			
	j. Develop updated guidelines for earthworks	Ε	2	Short
	on small sites in collaboration with GWRC			
	k. Identify and prioritise streams that should	Ε	2	Short
	be kept in their natural state and strengthen			
	provisions in the District Plan for their protection			
	I. Ensure there are provisions in the District Plan	Ε	2	Short
	to protect and enhance riparian strips			
	m. Ensure that all contractors working in and	Ex	2	Medium
	around streams have undertaken sediment			
	control training			
	n. Develop at least one example of best practice	N	3	Long
	WSUD in a high-profile location			

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<b>1.4.4</b> Ensure existing biodiversity	a. Educate and advise landowners and developers	Ex	1	Medium
is conserved and enhanced on	around methods for protecting natural values			
proposed development sites	in developments and sub-divisions, including			
	enhancing ecosystems and recreational			
	opportunities through habitat creation, pest			
	control, low-impact urban design and water			
	sensitive urban design			
	b. Develop evidence based guidelines and	E	2	Short
	criteria (working with stakeholders) for trail			
	development on Council owned land to balance			
	recreational needs with ecological values.			
	c. Provide consent officers with access to	E	2	Ongoing
	up-to-date information and interpretation			
	of information so they can make informed			
	decisions			
	d. Investigate the impact of street lighting on	E	3	Long
	biodiversity as part of new developments			
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<b>1.4.5</b> Advocate for biodiversity	a. We will incorporate biodiversity principles into	Ε	1	Ongoing
values to be included in all	Council plans and policies such as the Code of			
Council plans, strategies and	Practice for Land Development, Subdivision			
programmes that potentially	Design Guidelines.			
impact on these values	b. Consider the impact of future climate change	Ε	2	Ongoing
	on all biodiversity management activities			

### 2. RESTORE

## $\textbf{GOAL 2.1:} \ \textbf{The loss or decline of our indigenous biodiversity is reversed, and self-sustaining and resilient ecosystems created}$

Objectives	Actions	Funding	Priority	Timeframe
<b>2.1.1</b> Create resilient and self-sustaining ecosystems	a. Continue the Council's restoration planting programme of at least 45,000 native eco-sourced plants annually	E	1	Ongoing
	b. Create a city wide planting strategy (including suburban areas and the CBD) to ensure a representative range of sites across the different ecosystems – forest, shrubland, wetland, streamside (riparian), rocky shore and coastal – are included as part of the Council's restoration planting programme	Е	1	Ongoing
	c. As part of the strategy, ensure that a mix of plant types is included in the restoration planting programme, including emergent trees, climbers and groundcovers	E	1	Ongoing
	d. Write citywide guidelines for enrichment planting, including where best to source plant propagules, different species' habitat requirements, the importance of mycorrhizal associations, and the most effective methods of propagation	E	2	Short
<b>2.1.2</b> Continue to use eco-sourced plant material and promote it to the wider community	Review eco-sourcing guidelines for use in different practical contexts, involving relevant organisations and community groups	Ε	1	Short
	b. Continue the provision of eco-sourced plants through Berhampore Nursery	E	1	Ongoing
	c. Work with community and private nurseries to ensure they all have seed collection permits and are following eco-sourcing guidelines	E	1	Short

2.1.3 Restore the function of ecosystems, recognising the role that all species may play	d. Evaluate the ecological function of large exotic trees on public land and if removals are required (eg for safety reasons), consider replacing that function before removals occur	E	1	Ongoing
	e. Trial ways of restoring native forest underneath a canopy of exotic conifers to build on our knowledge of long term restoration options in these environments	E	1	Short
	f. Initiate a programme to gradually replace over-mature conifers with native vegetation over 20–30 years, in accordance with priorities in existing management plans such as the Wellington Town Belt Management Plan	Е	2	Ongoing
	g. Ensure that future Council amenity and landscape planting (including street trees) will not threaten indigenous biodiversity, and enhance indigenous biodiversity where practicable	Е	2	Ongoing
	h. Trial the practice of damaging weed trees where appropriate and leaving them standing (veteranisation) to create cavities for birds, lizards and insects	Ex	2	Short

GOAL 2.2: Aquatic ecosystem health across the city is improved

Objectives	Actions	Funding	Priority	Timeframe
2.2.1 Continue stream restoration programmes in accordance with community and catchment priorities	a. Continue streamside (riparian) planting programme (including indigenous vegetation buffers)	E	1	Ongoing
	b. Identify and prioritise streams that should be restored from their current state	E	1	Short
	c. Support or seek funding with agencies such as Million Metre Streams, supporting community groups to apply for funding via these organisations	E	1	Short
	d. Ensure all Council works in stream are in accordance with GWRC best practice guidelines.	E	1	Ongoing
	e. Conduct walkover of Kaiwharawhara, Owhiro and Haape streams to map and identify barriers to fish passage	N	1	Short
	f. Seek to restore (daylight) piped sections of stream within large natural catchments to contribute to overall stream network health	Ε	2	Ongoing
	g. Prioritise barriers to fish passage and schedule their modification or removal as part of an annual programme	N	2	Medium
	h. Support Zealandia to explore the eradication of pest fish within the lakes and streams of the valley	E	2	Medium
	i. Work with local farmers to fence and plant riparian areas on their land.	N	2	Long

GOAL 2.3: Restoration programmes are in place for rare, threatened or locally significant species

Objectives	Actions	Funding	Priority	Timeframe
<b>2.3.1</b> Ensure threatened fauna has the habitat needed to complete lifecycles	a. Plant food species for threatened fauna as part of restoration planting programmes	E	1	Ongoing
	b. Install suitable nesting sites for cavity nesting species in reserves where these species are known to be present.	N	2	Short
<b>2.3.2</b> Re-establish populations of threatened plants in Wellington	a. Propagate threatened species at Council nurseries for planting as part of the restoration planting programme	E	1	Ongoing
	b. Work with community and professional nurseries on the propagation of threatened species	Е	1	Ongoing
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<b>2.3.3</b> Work in partnership with other organisations to develop species restoration programmes for both terrestrial and aquatic species	Work with DOC to ensure the Council is following 'threatened species recovery plans' where these are in place	E	1	Ongoing
	b. Support other organisations with restoration programmes where these are already in place	Е	2	Ongoing
	c. Consult other organisations to ensure current species restoration programmes are being followed	E	2	Short
	d. Work with relevant organisations to investigate the restoration of indigenous fauna through reintroduction programmes	N	2	Medium

**GOAL 2.4: Ecological networks are developed across the landscape** 

Objectives	Actions	Funding	Priority	Timeframe
<b>2.4.1</b> Create connections between reserves for key plant and animal	a. Identify key species for which connections would be beneficial and can be achieved	E	1	Short
species (ie create a Green Network Plan)	b. Identify individual dispersal mechanisms and requirements for each of these key species and where current populations are located	E	1	Short
	c. Carry out restoration planting and strategic street planting where practicable to allow for travel of these key species between core areas	E	2	Medium
	d. Prepare a discussion paper on roadside reserves as potential corridors between remnants	Е	2	Medium
	e. Work with private landowners to close gaps between identified ecologically significant areas where the reserve network is not sufficient	N	2	Long
<b>2.4.2</b> Work with private landowners to restore areas of ecological significance	Assist landowners with seeking grants to fund the ecological restoration on sites with identified ecologically significant areas	Е	1	Ongoing
	b. Identify and prioritise the areas of private land that contain large areas of prime and secondary forest remnant or wetlands and work with landowners of these sites on restoration programmes	Е	1	Short
	c. Give advice to private landowners on restoration planting	E	2	Ongoing
	d. Work with QEII to protect ecologically significant sites on private land	Ex	2	Short
	e. Identify, create and implement incentives to get people to care for biodiversity on private land	Ex	2	Medium
	f. Work with private landowners to create ecological restoration plans for areas of ecological significance	Ex	2	Long
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<b>2.4.3</b> Work with Porirua City Council, Lower Hutt City Council, GWRC and DOC to ensure	Work with Porirua City Council, GWRC and     Ngāti Toa on the implementation of the Porirua     Harbour Strategy	E	1	Ongoing
cross-boundary management of important catchments and ecosystems	b. Work with GWRC on the establishment and implementation of the Porirua and Wellington Harbour Whaituas	E	1	Short
	c. Work with GWRC to identify the spread of species between Belmont Regional Park and Council Northern reserves	Ex	3	Medium

# 3. CONNECT GOAL 3.1: Biodiversity is a common experience for all Wellingtonians

Objectives	Actions	Funding	Priority	Timeframe
<b>3.1.1</b> Ensure all Wellingtonians encounter nature on a daily basis	a. Promote and increase use of native plantings in Council amenity planting, particularly within the central city	E	1	Ongoing
	b. Investigate the use of live feed cameras on bird nests (eg kaka and/or little blue penguin, and/or underwater marine environment in inner harbour) and promote these images to the public	N	2	Medium
	c. Increase the number of large trees planted in the central city, focussing in particular on the east-west connections. Explore the use of suitable local native tree species.	Ex	2	Long
	d. Make green infrastructure and water-sensitive urban design (WSUD) standard as part of new buildings and upgrades within the Council property portfolio	N	2	Long
	e. Incorporate indigenous biodiversity into Wellington's urban design strategies	E	3	Medium
	f. Include New Zealand nature and natural imagery into public space upgrade projects	E	3	Medium
	g. Install green roofs and walls on at least one public building in the central city and surrounds	N	3	Medium
<b>3.1.2</b> Ensure Wellingtonians connect with nature as part of recreation activities	a. Ensure all Wellingtonians in suburban and urban areas can access a natural space within a 10-minute walk or cycle	E	1	Ongoing
	b. Support the development of community gardens and edible planting groups	E	2	Ongoing
	c. Restore natural areas near key recreational areas such as sportsfields and playgrounds	E	2	Medium
	d. Promote cycling and walking links through and along the appropriate green and blue networks	E	3	Ongoing
	e. Ensure legal protection over private land provides for public access where practicable	E	3	Ongoing
	f. Promote and protect areas which provide tranquil green space to assist with mental health and wellbeing	N	3	Long

GOAL 3.2: People understand the importance and value of biodiversity to their wellbeing

Objectives	Actions	Funding	Priority	Timeframe
<b>3.2.1</b> Raise Wellingtonians' awareness of the significance and value of biodiversity	Educate the public around Council use of indigenous vegetation to increase community awareness and appreciation of local plants eg through Otari-Wilton's Bush, garden beds and traffic island displays; identify suitable indigenous species for specimen planting where appropriate	Е	1	Ongoing
	b. Celebrate our indigenous biodiversity and our successes in relation to its conservation	E	2	Ongoing
	c. Create and install interpretive signage within key reserve areas to educate people about the biodiversity values of that area	N	2	Ongoing
	d. Create and install interpretation materials telling stories of cultural and natural history and promoting community restoration initiatives	N	3	Long
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<b>3.2.2</b> Use technology to connect people with biodiversity and ensure that people have access to current information on biodiversity	Inform and educate the public through a number of activities and programmes, including production of communications such as our e-newsletter Branch Out	Ε	1	Ongoing
	b. Promote Nature Watch as a citizen science tool to collect information on biodiversity and environmental pest species	E	2	Ongoing
	c. Have all biodiversity information and research available through the Council website	E	2	Medium
	d. Develop an easily used species identification guide for lizards and implement standardised lizard reporting procedures	E	3	Short
	e. Create a physical public research hub where the community can access research advice and reference collections	N	3	Medium
	f. Develop smart and easily accessible information to enable people to access areas of high biodiversity, including smart phone applications and interactive mapping	E	3	Medium

<b>3.2.3</b> Give children and youth the	a. Create the Children's Garden at the Wellington	N	1	Short
opportunity to experience and	Botanic Garden to fire the imagination of			
learn about nature	children and inspire adventures			
	b. Create opportunities for schools to get involved	E	1	Short
	in conservation initiatives and edible planting			
	and identify which schools are near to reserves			
	that could be "adopted"			
	c. Identify and promote outdoor recreation	Ε	1	Short
	opportunities for children and youth			
	d. Continue to produce educational resources at	E	2	Ongoing
	Otari-Wilton's Bush to enhance visits by schools			
	and other interested parties			
	e. Where appropriate and aligned with our	E	2	Ongoing
	strategy, continue support for environmental			
	education programmes eg Enviroschools,			
	Wellington Zoo's Bush Builders programme and			
	the Zealandia education programme			
	f. Review the Council's environmental education	E	2	Short
	approach and develop a more coherent			
	approach to working with children, schools and			
	other environmental education providers			
	g. Create at least one natural playscape and use	N	2	Medium
	natural elements in other playground upgrades			

GOAL 3.3: More people are connected to nature, so take action to protect and restore biodiversity

Objectives	Actions	Funding	Priority	Timeframe
3.3.1 Promote responsible pet ownership to protect wildlife in our open spaces	Review the animal control bylaw and use     it to minimise the impact of pets on native     biodiversity	E	1	Short
	b. Work with partner organisations to reduce the impact of cats (domestic, stray and feral) on our indigenous wildlife.	N	1	Short
	c. Work with communities in high biodiversity risk areas on how best to minimize or avoid impacts of cats and dogs on indigenous biodiversity.	N	1	Short
	d. Run education and awareness programmes to encourage people to desex cats and keep them indoors as much as possible	N	1	Short
	e. Investigate subsidising microchipping for cats near sensitive wildlife areas as a voluntary approach	E	1	Short
	f. Work with partners to run a behaviour change programme informing people of the need to keep dogs on leashes near sensitive wildlife areas to protect ground dwelling/nesting birds, such as coastal penguin habitat and in forests during crucial fledging periods	N	1	Medium
<b>3.3.2</b> Promote enhanced biodiversity awareness in all Council practices	Work with all Council business units and Council controlled organisations to have input into relevant Council standards and policy	E	1	Ongoing
	b. Run at least one internal training programme per year on issues relating to biodiversity.  These should initially focus on threatened environments such as streams and dunes	E	2	Ongoing
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<b>3.3.3</b> Increase active participation in biodiversity projects and celebrate that action	a. Publicise biodiversity projects through Council channels and work with NatureSpace portal to assist people to volunteer and get involved	E	1	Ongoing
	b. Publicise the Council's and other organisations' activities, events and achievements relating to Wellington's biodiversity through social media, media articles and publications	E	1	Ongoing
	c. Promote opportunities for people to participate in decision-making affecting biodiversity (RMA processes, submitting to Council, joining ERG etc)	E	2	Ongoing

<b>3.3.4</b> Engage the wider community in Citizen Science projects	a. Continue involvement in the annual backyard bird survey and the Kereru Count	E	2	Ongoing
	b. Engage the community in other species- based programmes such as lizard monitoring, potentially using NatureWatch as a tool	N	2	Ongoing
	c. Lead one BioBlitz (terrestrial and aquatic) within Wellington every 3 years	N	2	Short
<b>3.3.5</b> Encourage and support individuals and households to take action to support biodiversity	Continue to support annual initiatives with partner organisations that encourage all people to remove weeds from their gardens and plant native plants instead	E	1	Ongoing
	b. Implement an awareness programme about environmental weeds (including native weeds), the impact of garden dumping and risk of birds and wind spreading seeds to nearby parks and reserves	E	1	Short
	c. Encourage people to have wildlife friendly backyards by providing information on creating habitat and planting food species.	E	1	Short
	d. Promote backyard trapping by providing information and facilitating the supply of equipment	N	1	Short
	e. Develop and publish plant lists and guides for zones around Wellington (based on species that originally grew there) so people can be informed about the appropriate species to plant	E	1	Short
	f. Work with partners (including Wellington Water) to provide and promote information on the impact of household activities, such as car washing and the use of paint and chemicals, on water pollution	Ex	2	Ongoing
	g. Investigate possible options to get more green waste from the city going to the compost facility at the Southern Landfill	Ex	2	Medium
	h. Work with community partners to establish a teaching garden to educate people on the difference between similar plant species (both weed and native)	Ex	2	Medium
	i. Work with the community to explore options for chemical free pest control and recommend chemical free approaches for small scale operations	E	3	Medium

GOAL 3.4: We work with a range of partners towards a shared vision for Wellington's biodiversity

Objectives	Actions	Funding	Priority	Timeframe
<b>3.4.1</b> Work in partnership with iwi and other Māori groups	a. Ensure local mana whenua have the opportunity to be involved in conservation initiatives	E	1	Ongoing
	b. Identify areas of traditional Māori use and biodiversity value, and work with iwi to conduct an assessment of biodiversity sites of cultural significance	E	2	Medium
	c. Identify opportunities on Council parks and reserves where rongoa Māori can be celebrated, plants labelled and interpretation provided	E	3	Medium
	d. Identify opportunities on Council parks and reserves where species required for raranga can be cultivated eg pa harakeke	E	3	Medium
	e. Explore opportunities to use appropriate traditional structures and buildings in our interpretation (for example pou whenua, waharoa	E	3	Long
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<b>3.4.2</b> Collaborate with partners to achieve agreed goals, effectively utilising resources and creating strong partnerships	a. Continue relationships between organisations with a strong biodiversity focus, such as Wellington Zoo, WWF-New Zealand, Zealandia and Forest & Bird	E	1	Ongoing
	b. Partner with other agencies to support the NatureSpace portal for community restoration work	E	1	Ongoing
	c. Continue to support Restoration Day	E	1	Ongoing
	d. Facilitate discussions to agree a shared direction for Wellington region's biodiversity outcomes with partners to ensure efficiencies by not duplicating work and responsibilities	E	1	Short

<b>3.4.3</b> Work with partners to identify opportunities for increased business involvement and support	Pursue opportunities for business involvement and partnerships including sponsorship, planting programmes, encouraging sustainable business practices. Support and encourage corporate volunteer programmes	E	2	Ongoing
	b. Develop guidelines with other organisations that use corporate volunteers, such as DOC and GWRC, to establish in which sites corporates should engage	E	2	Medium
<b>3.4.4</b> Support and build the capacity of existing and new community groups engaging in biodiversity projects	a. Continue the Living City grants scheme with an ongoing financial commitment of at least \$80,000 per annum to support projects on public and private land that have biodiversity benefits for Wellington	E	1	Ongoing
	b. Continue to provide at least 34,000 native eco-sourced plants annually to the community	Ε	1	Ongoing
	c. Continue support for environmental restoration groups through the provision of plants, materials, technical advice and in-kind support	E	1	Ongoing
	d. Develop an annual programme of training and workshops to complement Restoration Day (in partnership with DOC, GWRC and NGOs)	Ε	1	Short
	e. Facilitate the establishment of a community plant nursery network to promote best practice, access to training opportunities and cooperation	E	1	Short
	f. Ensure information on funding sources is available for community groups to carry out biodiversity conservation work. Promote funding sources available for private landowners to protect and manage biodiversity on their own land (including carbon credits)	Е	2	Ongoing
	g. As part of a city wide planting strategy, identify where groups are working in areas with missing plant species, and ensure those groups have the ability to plant those species	E	2	Medium
	h. Facilitate the coordination between community environmental groups, including potential mergers, to ensure a sustainable community contribution to conservation.	Е	2	Ongoing

### 4. RESEARCH

Goal 4.1: Wellington City Council has increased understanding and knowledge of biodiversity

Objectives	Action	Funding	Priority	Timeframe
<b>4.1.1</b> Identify and monitor locally important sites and species	Ensure that all known populations of threatened plants are captured digitally and monitored	Ex	1	Ongoing
	b. Ensure that staff collect information on new populations of locally important species	E	1	Ongoing
	c. To ensure we have accurate information, re-survey the boundaries of ecologically significant sites	N	1	Short
	d. Conduct a bat survey to establish whether populations are present in Wellington	N	2	Short
	e. Follow up surveys for Ngahere geckos, barking geckos, spotted skinks, Kupe skinks and ornate skinks using more intensive methods in surveyed parks and reserves with good habitat	N	2	Short
	f. Support researchers gathering information on invertebrates	N	3	Medium
<b>4.1.2</b> Identify habitat requirements for key species	a. Compile information on the nesting requirements for key bird species and work out where species are present with limited breeding habitat	E	1	Short
	b. Compile information on habitat and dispersal requirements for all freshwater fish species	E	1	Short
	c. Compile information on the microhabitat requirements of all threatened plant species	E	1	Short
	d. Establish the dispersal requirements of sensitive forest-dependent species, such as North Island robins	Ex	2	Medium
		l -		
<b>4.1.3</b> Ensure the Council has relevant and current information on the requirements of threatened species	Establish regular meetings with DOC     biodiversity staff to ensure all information on     rare, threatened or locally significant species is     shared, including reports of dead animals and     recent sightings	E	2	Short
	b. Continue to gather knowledge on the threats to threatened species and use this knowledge to adapt management programmes	E	2	Ongoing

Goal 4.2: Environmental monitoring is consistent across the city, region and country and informs our biodiversity management

Objectives	Actions	Funding	Priority	Timeframe
<b>4.2.1</b> Follow international best practice for citywide biodiversity monitoring	a. Carry out the City Biodiversity Index (see 10.1)     and put information on Council website.     Re-evaluate every 5 years to monitor progress.	E	1	Short
<b>4.2.2</b> Monitor biodiversity indicators and outcomes in collaboration with partners	a. Set up consistent terrestrial outcomes monitoring framework and annual programme (incorporating existing monitoring work) in a collaborative approach with other key organisations – to include vegetation monitoring, bird monitoring, lizard monitoring	Ex	1	Short
	b. Set up consistent biosecurity output monitoring to evaluate effectiveness of pest animal and plant control programmes	N	1	Short
	c. Ensure common indicators for biodiversity monitoring are used so data can be easily aggregated	E	1	Short
	d. Carry out a monitoring programme for Wellington's streams using the Macroinvertebrate Community Index (MCI)	N	1	Medium
	e. We will work with Greater Wellington Regional Council to monitor the abundance and distribution of high threat Regional Pest Management Plan pest plants on public land	Ex	2	Medium
	f. Work with other organisations to establish monitoring techniques suitable for community groups and individual landowners	E	2	Short
	g. Establish best practice monitoring for urban environments	Ex	2	Medium
	h. Set up permanent 20x20 forest plots in reserves across the city and a programme to revaluate current plots	E	2	Medium

	I		1	
<b>4.2.3</b> Monitor effects of	a. Work with Wellington Water to implement the	Ε	1	Ongoing
stormwater runoff on the	global discharge consent			
freshwater and marine	b. Work with Hutt City Council to support GWRC's	Ε	2	Ongoing
environment	Wellington Harbour sediment investigation			(every
	monitoring looking at levels of sediment			5 years)
	build-up and effects on biodiversity			
	c. Support research through Victoria University	N	2	Medium
	Coastal Ecology lab on the effects of			
	heavy metals and sediment on the marine			
	environment			
<b>4.2.4</b> Set up systems to ensure	a. Continue review of Council restoration	E	1	Ongoing
monitoring information is used	programmes through monitoring planting			
to improve management of	success			
biodiversity, taking climate change	b. Continue review of environmental weed	Ε	1	Ongoing
into consideration	species and their spread in Wellington through			
	weed mapping			
	c. Carry out research on indigenous tree species	Ε	2	Medium
	to determine suitability for specimen and street			
	tree planting			
	d. In order to obtain information on predator	N	2	Medium
	presence, conduct monitoring for pests in all			
	the parks with high numbers of lizard or bird			

### Goal 4.3: We actively seek and share knowledge about Wellington's biodiversity

requirements

densities and species

Objectives	Actions	Funding	Priority	Timeframe
<b>4.3.1</b> Continually identify and coordinate local research needs	a. Fund university research to work on projects aligned with the Council's urban ecology research needs	Ex	1	Short
	b. Maintain a research database collating all past and potential research topics	E	2	Medium
	c. Work with Victoria University and Zealandia to develop a centre of excellence in ecological restoration, and encourage and publicise research with a purpose	E	2	Long

e. Monitor the survival of all planted threatened

species to improve knowledge of microhabitat

Ε

2

Ongoing

<b>4.3.2</b> Establish a biodiversity network for information sharing	a. Facilitate discussions with key people to decide     the best method for interagency cooperation     and collaboration on biodiversity related     matters, and ensure the implementation of     an agreed system	E	1	Short
	b. Support initiatives from other organisations on the development of a biodiversity information- sharing mechanism	E	2	Medium
<b>4.3.3</b> Have one source of information for everyone	a. Capture all high level biodiversity information related to the Council in the GIS system in a way it can be shared with external organisations	E	1	Short
	b. Develop processes so that information available to the public is updated at the same time as other Council databases	E	3	Medium

### Goal 4.4: Through knowledge we have gained, we are continually improving our biodiversity management

Objectives	Actions	Funding	Priority	Timeframe
<b>4.4.1</b> Continue to improve our internal expertise and capacity in biodiversity conservation	Ensure staff have the ability to set up and monitor forest plots and the ability to carry out rapid vegetation assessment surveys	E	1	Short
	b. Add requirement for 'consideration of impact on indigenous biodiversity' to Council report templates	E	1	Short
	c. Remain informed about the impact of climate change to ensure current species selection is appropriate	E	2	Ongoing
<b>4.4.2</b> Ensure that the community can get involved in research, including monitoring	Facilitate training programmes for community groups that want to carry out monitoring across all terrestrial and aquatic environments	E	2	Short
	b. Develop a meaningful community stream health monitoring programme and a mechanism for the collection and sharing of that information	N	3	Medium
<b>4.4.3</b> Promote best practice in biodiversity protection locally, regionally, nationally and worldwide	Ensure that all knowledge gained through     Council programmes is shared through     appropriate forums and the Nature     Space website	E	1	Short

