






Waiheke Ecological Restoration Works Programme










Waiheke Target Pest Plant Species Agrichemical Minimisation Control Methodologies - September 2017




This is an indicative list of species. Others may be added if appropriate.





Scientific name	Common name	Waiheke proposed eco contract methodology	Agrichemical application timing	Identification image All images (unless stated otherwise) sourced from Auckland Council
Acacia mearnsii	Black Wattle	<ol style="list-style-type: none"> 1. Hand pull seedlings minimising soil disturbance. 2. Ringbark trees; ensure danger to public from falling branches is minimised. Paint ringbarked area immediately - Cut 'N' Paste Original (Glyphosate). 3. Where trees have been felled, paint stump - Cut 'N' Paste Original 4. No foliar spraying will be conducted 		
Agapanthus praecox.	Agapanthus	<ol style="list-style-type: none"> 1. Dig out isolated plants, removing all bulbs/rhizomes. Hang plants off ground 2. Slash leaves close to ground and paint fresh stump - Cut 'N' Paste Met Gel 3. No foliar spraying will be conducted 	Spring - Summer	





Allocasuarina sp.	She-oak	<ol style="list-style-type: none"> 1. Hand pull small plants. 2. Cut larger trees and stump paint - Cut 'N' Paste Met Gel. 	All year	
Araujia hortorum	Moth plant	<ol style="list-style-type: none"> 1. Dig and pull out all seedlings. 2. Cut near ground and stump paint - Cut 'N' Paste Picloram (43g/kg Picloram). 3. Foliar spraying will be conducted only as a last resort, e.g. Esplanade reserves which are steep perhaps requiring abseiling and on mass seedlings and/ or juveniles where a foliar application may be the best solution e.g. over gorse, amongst blackberry, etc, or just at such a large scale where resource or community group support may not be available? Metsulfuron 5g/10L plus organosilicone 	Spring - Autumn	
Asparagus asparagoides	Smilax	<ol style="list-style-type: none"> 1. Grub out small scattered plants. 2. Weed wipe small infestations (300ml (3%) Glyphosate+ 10ml penetrant) or Cut 'N' Paste Original (Glyphosate) . 3. No foliar spraying will be conducted, unless weed wiping proves ineffective in year one. In this case, Spring-early summer, cut vines 	Spring - Summer	




		60cm above ground, spray lightly (20ml glyphosate/L) No Added penetrant or surfactant.		
Asparagus scandens and Asparagus aethiopicus	Climbing Asparagus and Bushy Asparagus (latter a containment species recently discovered at Onetangi by Deryn Dromgoole)	<ol style="list-style-type: none"> 1. Small isolated individuals Cut 'N' Paste Original (Glyphosate) - wipe on with Nitrile glove 2. Weed wipe small infestations (test 300ml glyphosate/1L water, no penetrant, or Cut 'N' Paste Original (Glyphosate) - wipe on with Nitrile glove total coverage not required). If unsuccessful 2% glyphosate no organosilicone if around trees and 1% glyphosate with 0.1% organosilicone if away from tree trunks 3. Cut or pull vines 60cm above ground, spray lightly, 50ml (0.5%) Glyphosate. No Added penetrant or surfactant 	Spring - Summer	 
Chrysanthemoides monilifera	Boneseed	<ol style="list-style-type: none"> 1. Hand pull all but the largest plants before seeding. 2. Cut larger plants and stump paint with - Cut 'N' Paste Original (Glyphosate). 3. No foliar spraying will be conducted 	All year	




Cortaderia selloana	Pampas Grass	<ol style="list-style-type: none"> 1. Grub out small individual isolated individual plants. 2. Weed wipe small plants all year round (200ml glyphosate + 2ml penetrant/1L) 3. Scrub bar large or cut n stump treat smaller dense infestations with Cut 'N' Paste Original. Spray dense sites where non-target damage is unlikely (100ml 1% glyphosate + 20ml penetrant/10L). 	Summer - Autumn	
Cotoneaster spp.	Cotoneaster	<ol style="list-style-type: none"> 1. Hand pull seedlings 2. Cut and paint stems - Cut 'N' Paste MetGel. 3. Frill big stems, 'feather' bark and paint - Cut 'N' Paste Metgel 4. No foliar spraying will be conducted 	Summer - Autumn	
Delawarea odorata	German Ivy	<ol style="list-style-type: none"> 1. Hand pull or dig out scattered plants and seedlings. Hang pulled plants in nearby vegetation off the ground. 2. Cut and paint stems - Cut 'N' Paste Original (Glyphosate). 3. Cut stems below waist height, spray below this point (100ml glyphosate+20ml penetrant/10L). 	Spring - Summer	
Erica lusitanica	Spanish Heath	<ol style="list-style-type: none"> 1. Hand pull seedlings. 2. Paint stump - Cut 'N' Paste Picloram (43g/kg Picloram). 	All year	


Gazania sp.	Gazania	<ol style="list-style-type: none"> 1. Dig out small infestations. 2. No foliar spraying will be conducted 	All year	
Hedychium gardnerianum	Wild Ginger	<ol style="list-style-type: none"> 1. Slash stems and dig out all rhizomes. Young seedlings can be hand pulled, taking care to remove strings of rhizomes. 2. Cut above pink "collar" at base and stump paint - Cut 'N' Paste Metgel. 3. No foliar spraying will be conducted 	Spring - Autumn	
Jasminum polyanthum	Jasmine	<ol style="list-style-type: none"> 1. Prune vines as close to original stem as possible, gathering a bunch of vines together and tying twice cutting between and pasting the cut ends on both cut bunches then paint cut stem - Cut 'N' Paste Met Gel. Hang cut stems off ground where possible to prevent resprouting. 2. Cut back and spray regrowth Cut back and spray regrowth in summer (5g metsulfuron+10ml penetrant/10L 	Spring - Summer	

Ligustrum spp	Chinese privet & tree privet	<ol style="list-style-type: none"> 1. Hand pull seedlings. 2. Cut larger trees and stump paint - Cut 'N' Paste Met Gel. 3. Drill holes every 200mm and fill - Cut 'N' Paste Original 	All year	
		<ol style="list-style-type: none"> 1. Hand pull small plants. 		
Lonicera japonica	Tradescantia	<ol style="list-style-type: none"> 1. Cut and dig roots out. Leave so that cut sections are not touching soil 2. Cut and paint - Cut 'N' Paste Picloram (43g/kg Picloram). 3. Large vines can be cut at head height and sprayed below this (200ml Glyphosate + 20ml penetrantL). <p>For sites heavily infested but of lower priority liaise with Council biosecurity re biocontrols</p>	Summer - Autumn	
Paraserianthes lophantha	Brush Wattle	<ol style="list-style-type: none"> 1. Hand pull seedlings. 2. Cut larger trees and stump paint - Cut 'N' Paste Met Gel. 3. Drill holes every 200mm and fill - 	All year	

		Cut 'N' Paste Original		
Polygala myrtifolia	Sweet Pea Shrub	<ol style="list-style-type: none"> 1. Hand pull small plants. 2. Stump paint all year round - Cut 'N' Paste Original (Glyphosate). 	All year	
Populus sp.	Poplar	<ol style="list-style-type: none"> 1. No foliar spraying will be conducted. Hand pull small plants. 2. For larger plants, either frill larger plants (feather cut bark) Cut and stump paint - Cut 'N' Paste Original (Glyphosate). 	Spring - summer	
Pseudosasa sp	Bamboo	<ol style="list-style-type: none"> 1. Dig out and dispose small individual planes 2. Cut down close to ground apply immediately apply - Cut 'N' Paste Bamboo Killer (Glyphosate) 	Spring	
Rhamnus alaternus	Evergreen Buckthorn	<ol style="list-style-type: none"> 1. In large infestated areas report it immediately to the Auckland Council Biosecurity team, who will arrange for its control at their expense. 2. Cut and stump paint - Cut 'N' Paste Met Gel. Hang cut material whenever possible to avoid resprouting. 	Spring - Autumn	

		3. No foliar spraying will be conducted		
Rubus fruticosus agg	Blackberry	<ol style="list-style-type: none"> 1. Dig out small patches. 2. Stem scrape and paint - Cut 'N' Paste Original (Glyphosate) 3. Cut and paint - Cut 'N' Paste Original (Glyphosate). Only for small patches. 4. No foliar spraying will be conducted 	Summer	
Salix spp	Willow	<ol style="list-style-type: none"> 1. Hand pull small plants taking care to remove all parts. 2. Cut or drill every 100 mm around trunk diameter and fill each cut/hole - Cut 'N' Paste Original (Glyphosate). 3. Frill (feather cut bark) and paint - Cut 'N' Paste Original summer. 4. No foliar spraying will be conducted 	Spring - early summer	
Solanum mauritianum	Woolly Nightshade	<ol style="list-style-type: none"> 1. Pull up all small plants. Where these are hard to pull tiny stems- smear the top leaves with Cut n Paste Original 2. Cut and stump paint or frill - Cut 'N' Paste Original 3. Make 2 cuts either side of stem and fill each cut with - Cut 'N' Paste Picloram. 4. No foliar spraying will be conducted 	All year	

<p>Tradescantia fluminensis</p>	<p>Tradescantia</p>	<ol style="list-style-type: none"> 1. Weedmat small discrete infestations for several months. 2. Weed wipe small infestations with Cut n Paste Original. Follow up within 2-3 months before plant recovers. 2-3 treatments needed for total control. <p>For sites heavily infested but of lower priority liaise with Council biosecurity re biocontrols . Spray larger areas (300ml glyphosate + 30ml penetrant/10L). Should give 90+% kill. Follow up as above.</p>	<p>Summer</p>	
<p>Ulex europeus</p>	<p>Gorse</p>	<ol style="list-style-type: none"> 1. Introduce biocontrol agents wherever possible. 2. Hand pull seedlings and small plants. 3. Cut and stump paint - Cut 'N' Paste Picloram (43g/kg Picloram). 4. No foliar spraying will be conducted 	<p>Spring - Summer</p>	
<p>Vinca Major</p>	<p>Blue Periwinkle</p>	<ol style="list-style-type: none"> 1. Weedmat small discreet infestations for 6 months or more, check edges for creeping stems. 2. Hand pull small isolated infestations removing all plant material including runners. Repeat regularly. 3. Weed wipe small isolated infestations, all year round (300ml glyphosate + 2ml penetrant/1L). 	<p>Summer</p>	

		4. Spray all year round (200ml glyphosate + 20ml penetrant/10L). Requires constant follow up, spray regrowth (300ml glyphosate + 20ml penetrant/10L).		
Zantedeschia aethiopica	Arum Lily	<ol style="list-style-type: none"> 1. Slash tops and dig out tubers. Removing all material 2. Cut and stump paint - Cut 'N' Paste Met Gel 3. Weed wipe Cut 'N' Paste Met Gel 4. No foliar spraying will be conducted 	Spring Summer	

Application methods for Waiheke pest plant species

Trade name	Active constituent	Application methods proposed	Species to be used on
Cut n Paste Bamboo Killer	Glyphosate	Cut stump and direct application	Bamboo
Cut n Paste Original	Glyphosate	Cut stump and direct application	Black Wattle, Boneseed, German Ivy, Sweet Pea Shrub, Poplar, Blackberry, Willow, Woolly Nightshade, Privet
		Weed Wiper direct application to foliage	Smilax, Climbing Asparagus,

		Drill and fill direct application	Black Wattle, Brush Wattle, Willow, privet
		Stem scrape and direct application	Blackberry
Weedmaster	Glyphosate	Targeted Foliar Spraying	Pampas Grass, Climbing Asparagus, German Ivy, Japanese Honeysuckle, Tradescantia
Cut n Paste Met Gel	Metsulfuron-methyl	Cut stump and direct application	She-oak, Cotoneaster, Wild Ginger, Jasmine, Brush Wattle, privet, Evergreen Buckthorn (Rhamnus), Arum Lily, Agapanthus
		Drill and fill direct application	Cotoneaster
		Weed Wiper direct application to foliage	Arum Lily, Smilax
Associate	Metsulfuron-methyl	Target Foliar Spraying	Moth plant, Jasmine
Cut n Paste Picloram Gel	Picloram	Cut stump and direct application	Woolly Nightshade, Gorse, Moth Plant, Spanish Heath, Japanese Honeysuckle,
		Drill and fill direct application	Woolly Nightshade