



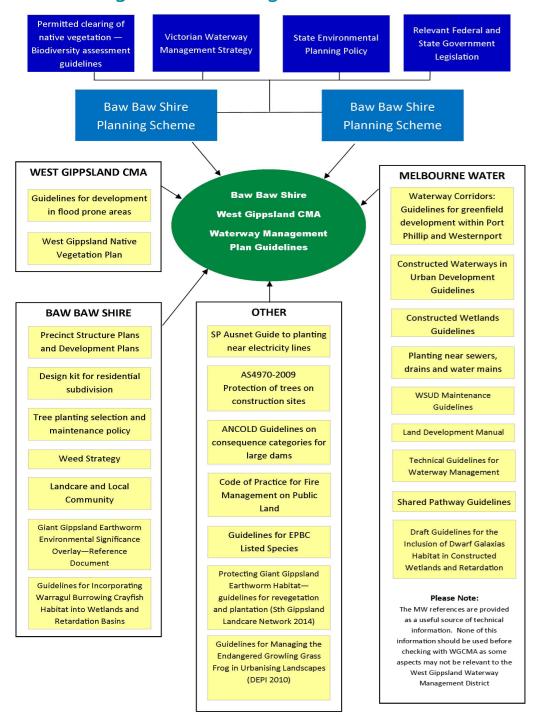
WATERWAY MANAGEMENT PLAN GUIDELINES

Purpose of the guideline

The guideline aims to improve the quality of management along waterways as part of integrated planning, design and management of new open space along waterway corridors and around wetlands.

The purpose of the guideline is to assist land owners and developers in preparation of waterway management plans to meet the requirements of the responsible authority. The guideline outlines the basic requirements and provides examples and template tables to assist with preparation of the key elements of a waterway management plan, along with links to sources of more detailed information. The guideline does not attempt to include technical information and land owners and developers must inform themselves of available best practice information, current strategies and legislation summarised below.

Relevant legislation, strategies and technical information

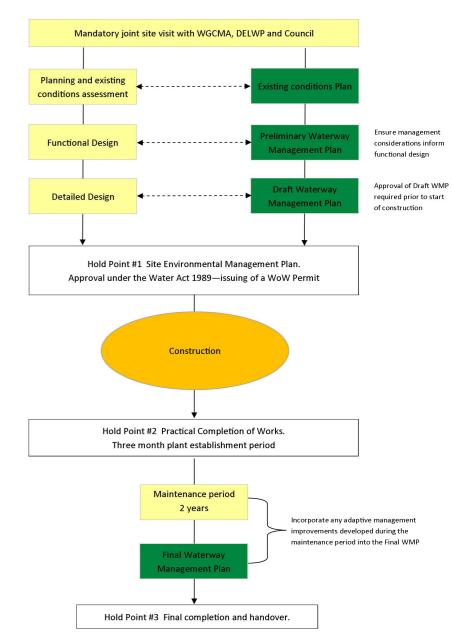


Key Principles

The following principles need to be considered in preparation of a waterway management plan in Baw Baw Shire:

- Identify and improve protection for areas where threatened species including Strzelecki Gum, Gippsland Giant Earthworm, Warragul Burrowing Crayfish, Dwarf Galaxias and/or Growling Grass Frog habitat is present.
- Where possible utilise areas that have already been disturbed for establishment of new infrastructure and/or recreational use that will preclude further environmental rehabilitation.
- Identify and allow where possible the continuation of natural processes such as erosion, inundation and regeneration minimising the need for human intervention.
- Establish vegetated buffers around all identified areas of remnant vegetation, along waterways and around wetlands.
- Ensure all new planting within 30m of the waterway, wetland or identified conservation areas is undertaken using indigenous species of local provenance consistent with the prevailing EVC. Ensure all new plantings to open space and streets within 100m of the waterway is not classified as an invasive weed species.
- Identify and control weeds. Eradicate where possible prior to commencement of construction and consider ongoing control requirements in future management.
- Areas of public land must be designed and managed in accordance with current provisions of the Code of Practice for Fire Management on Public Land and Bushfire Management Overlays where applicable. New urban development setbacks must be sufficient to allow for the waterway to be fully restored to the pre 1750 EVC.
- Manage human impacts on biodiversity values while acknowledging the importance of interaction with the natural environment to health and wellbeing. Improve community understanding and appreciation of intrinsic biodiversity and values of waterways.
- Utilise high quality durable materials that require replacement less frequently and can better withstand natural events such as fire and flood reducing lifetime maintenance costs.
- Consider impacts of increasing recreational use including cyclists and pedestrians/dog walkers which may threaten wildlife, cause fragmentation of habitat and limit future opportunities for revegetation and rehabilitation.
- Consider ongoing maintenance requirements that may impact on natural habitat values, including removal of dead trees and overhanging limbs for safety, pruning/removal of midstorey shrubs to maintain sightlines and slashing/removal of grasses/groundlayer species to reduce fire risk/presence of snakes.

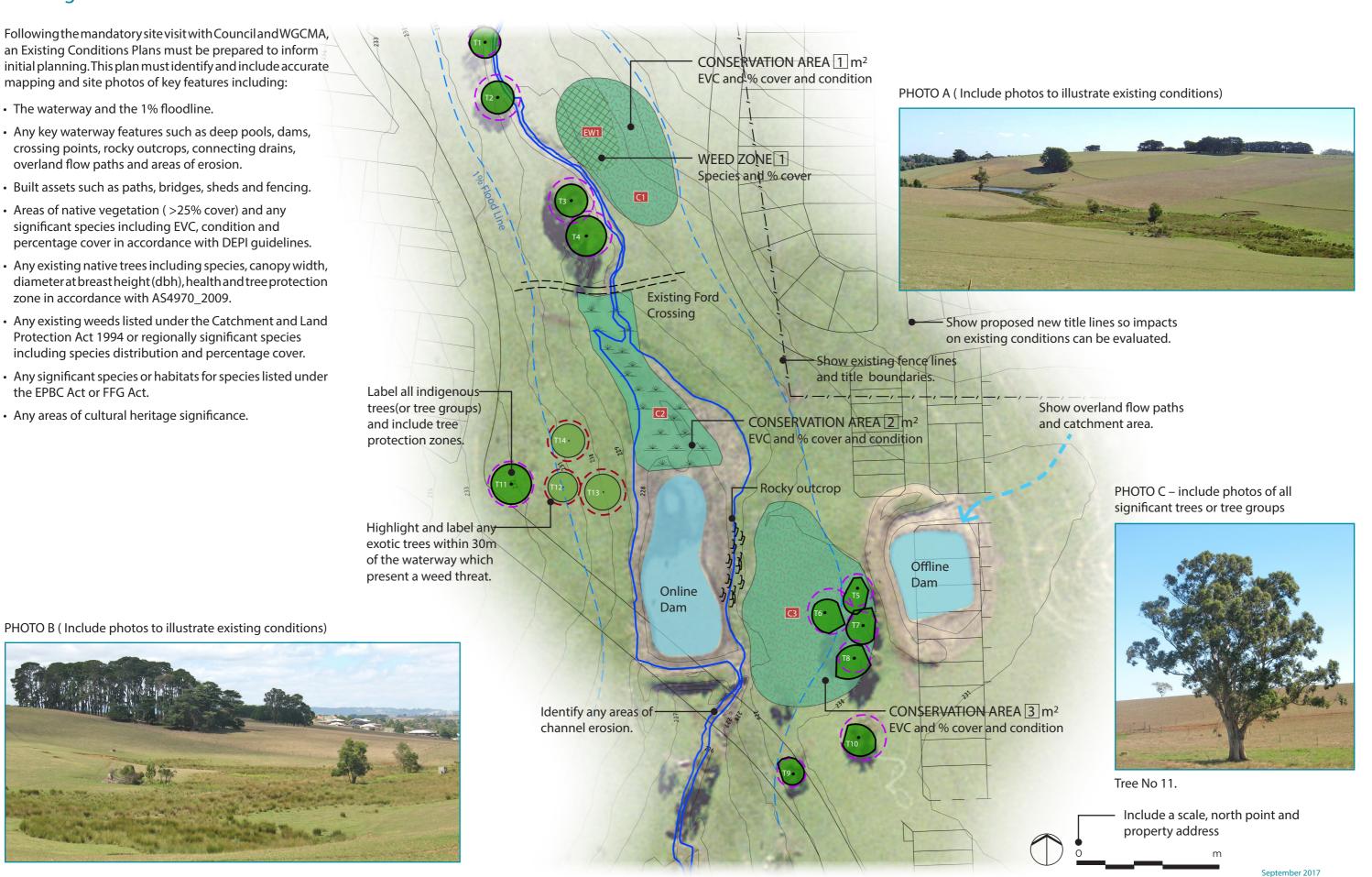
WMP development and approvals process



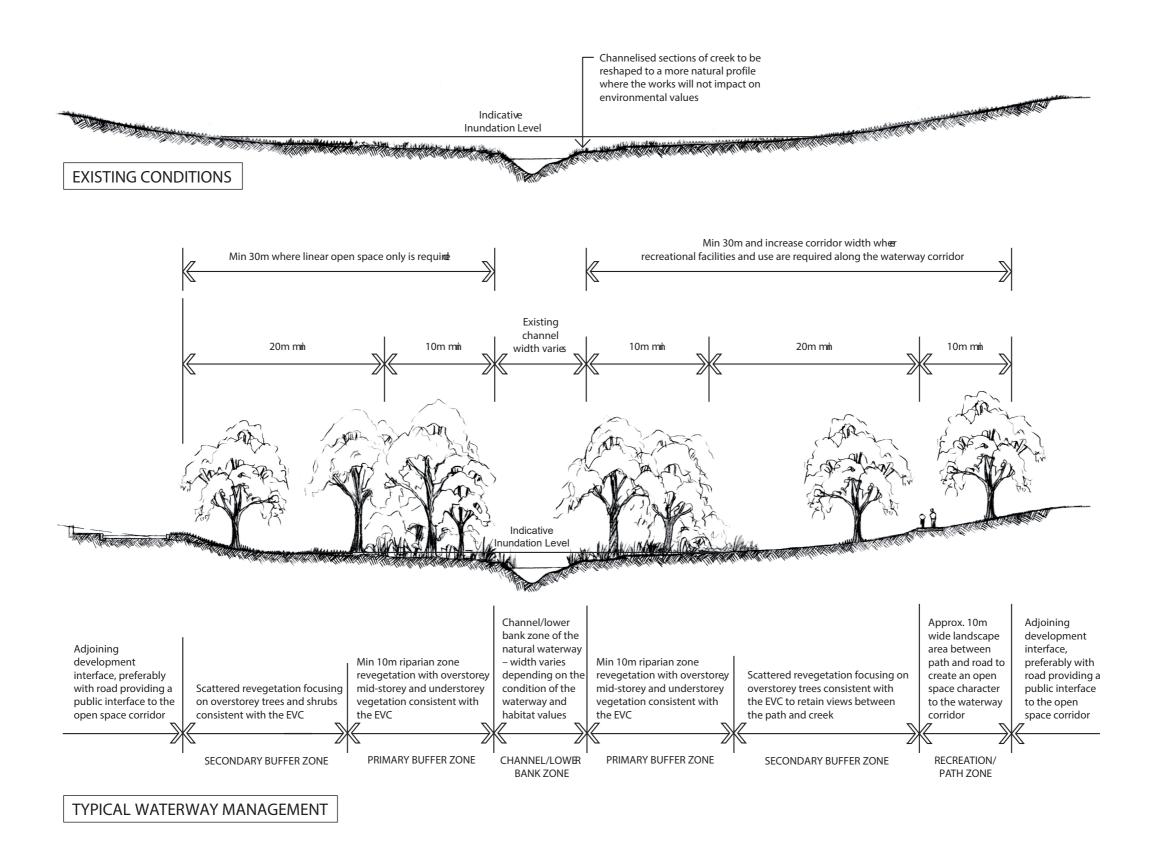
Existing Conditions

Following the mandatory site visit with Council and WGCMA, an Existing Conditions Plans must be prepared to inform initial planning. This plan must identify and include accurate mapping and site photos of key features including:

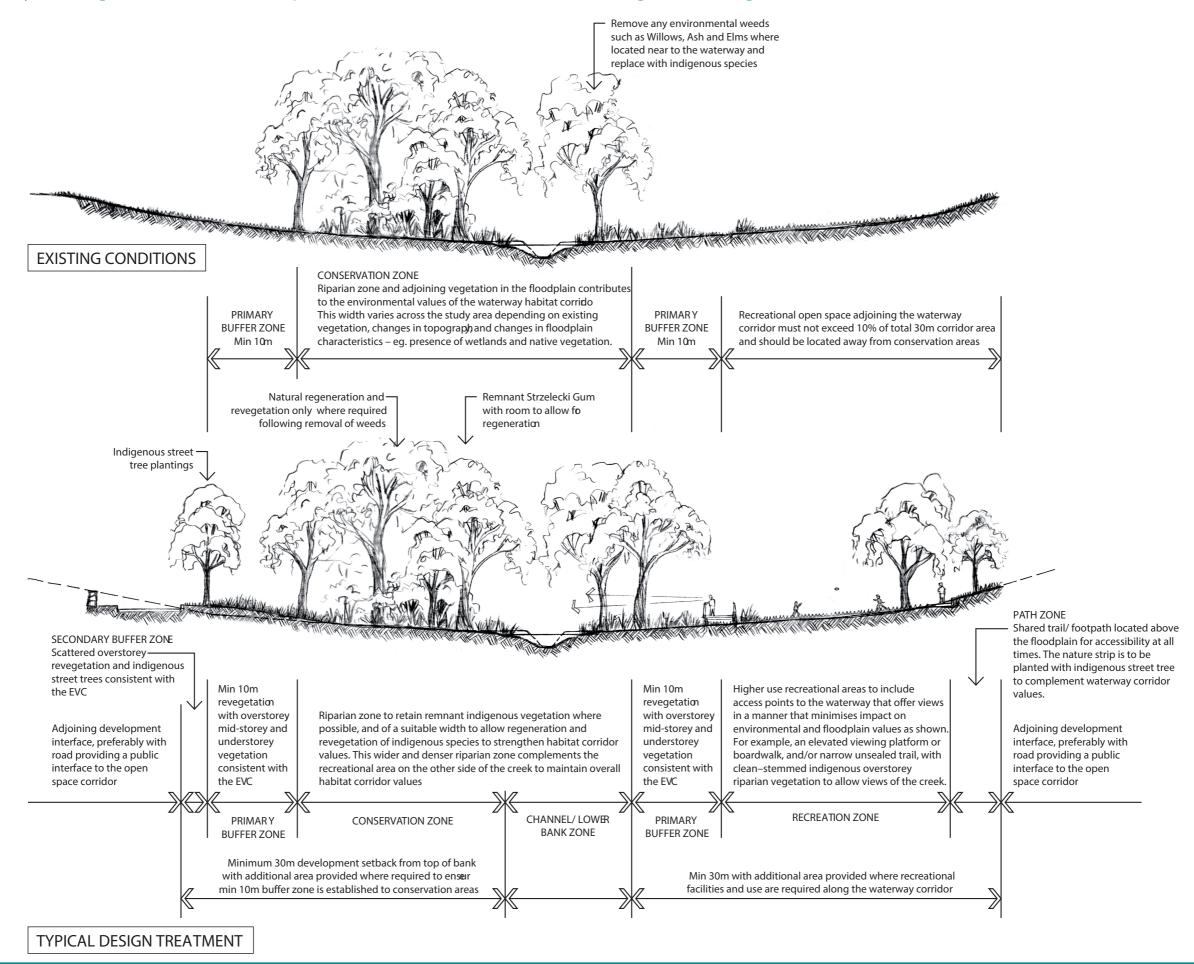
- The waterway and the 1% floodline.
- · Any key waterway features such as deep pools, dams, crossing points, rocky outcrops, connecting drains, overland flow paths and areas of erosion.
- Built assets such as paths, bridges, sheds and fencing.
- Areas of native vegetation (>25% cover) and any significant species including EVC, condition and percentage cover in accordance with DEPI guidelines.
- · Any existing native trees including species, canopy width, diameter at breast height (dbh), health and tree protection zone in accordance with AS4970_2009.
- · Any existing weeds listed under the Catchment and Land Protection Act 1994 or regionally significant species including species distribution and percentage cover.
- · Any significant species or habitats for species listed under the EPBC Act or FFG Act.
- Any areas of cultural heritage significance.



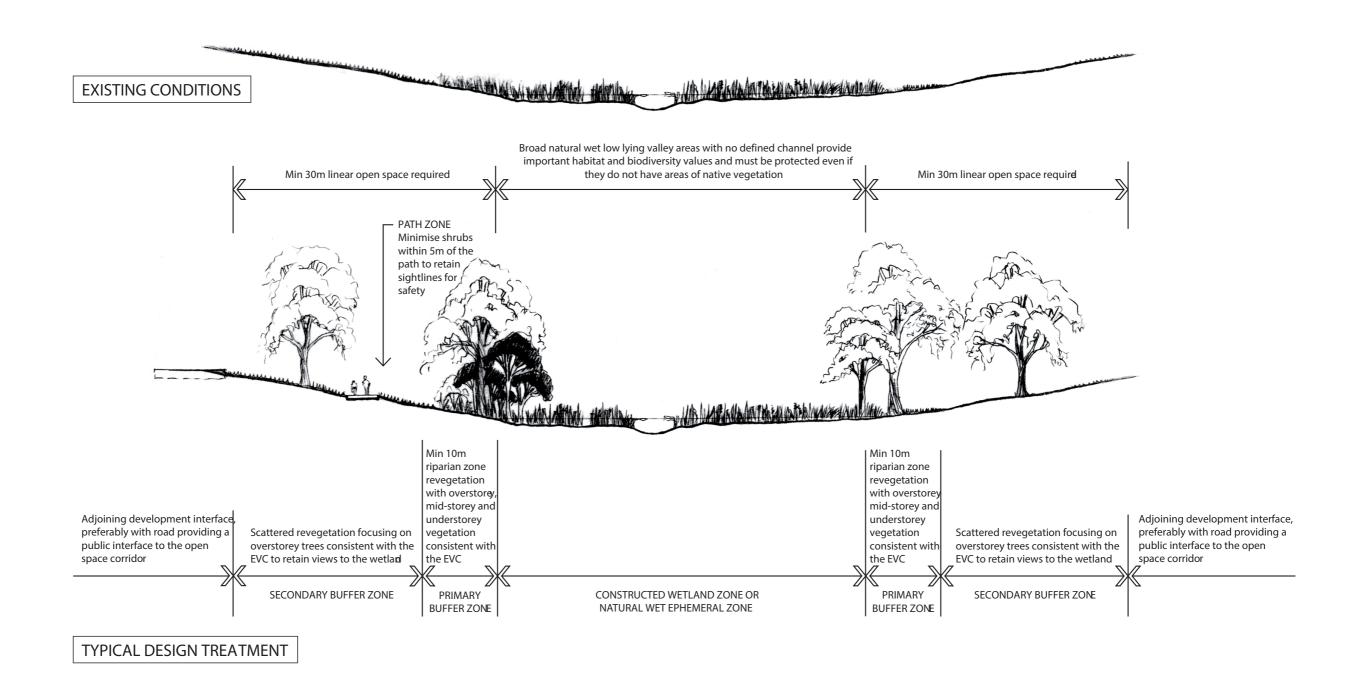
Preferred waterway management and development setback – areas with limited existing native vegetation



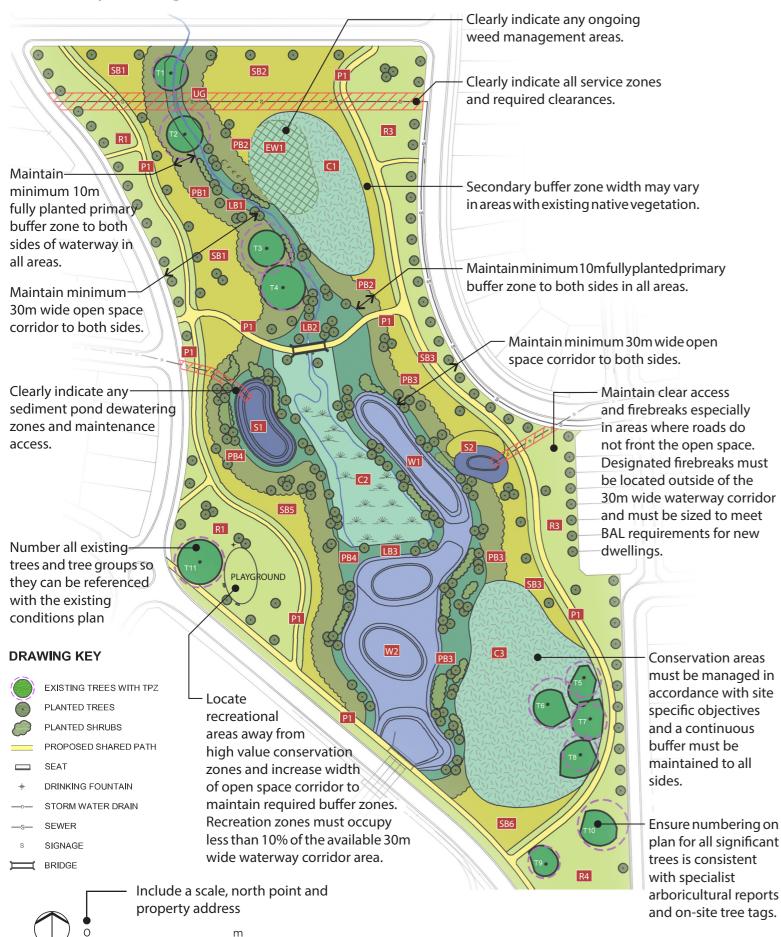
Preferred waterway management and development setback – areas with existing native vegetation



Preferred waterway management and development setback – areas with wetlands in the floodplain



Waterway Management Plan



Waterway Management Activities (Sample table only)

PLAN CODE	MANAGEMENT ZONE	DESCRIPTION	ASSETS	ESTABLISHMENT MAINTENANCE	FREQUENCY	HANDOVER BENCHMARK	ONGOING MAINTENANCE	FREQUENC
	LOWER BANK – CHANNEL ZONE	The lower bank or wet channel section of a natural or constructed waterway.	Mass tubestock planting (4/m2) and 800 GSM jutemat where	Removal of all litter and weeds to<1%	Quarterly (4)	Removal all litter & weeds to <1% 95% cover on all mass planting	Weed control and removal of litter Monitor natural spread of Typha and	Annual (1) as required
LB	ON WHILE ESTA	Area subject to frequent inundation after local rainfall. Width may vary according to topography.	required for stabilisation. Infill planting to areas of existing native vegetation. Rockwork, woody debris, snags	Monitor erosion Plant replacement/infill planting	As required	Targets for control of naturally occurring Typha & Phragmites have been met. No evidence of erosion	Phragmites. Control where emergent. • Monitor jute mat and erosion	As required
W	WETLAND ZONE	Shallow and deep marsh wetland areas typically subject to water depths between 0-600mm but potentially drying out in summer. Open water pools/water bodies 0.6-to 2.0m deep.	Wetland aquatic planting Open water/deep pools Inlet/outlet structures, bypass channels, spillways, rockwork, weirs and drop structures.	Weed control & removal of litter to<1% Plant replacement/infill planting Sediment removal. Refer to site specific stormwater management plan requirements.	Quarterly (4) Annual (1)	Refer to site specific stormwater management plan requirements.	Weed control and removal of litter Monitor natural spread of Typha and Phragmites. Control where emergent. Sediment and litter removal from structures. Refer site specific stormwater management plan requirements.	Annual (1) as required
S	SEDIMENT POND / WSUD ZONE	Permanent open water inlet zone of a constructed wetland or drain outfall WSUD treatment/rain garden where sediment is trapped and periodically removed as part of routine maintenance.	Drainage structures culverts, pits and pipes Gross Pollutant Trap, inlet structures Grass/gravel access track and sediment dewatering areas Signage and fencing	Weed control & removal of litter Plant replacement/infill planting Sediment removal. Refer to site specific stormwater management plan requirements.	Quarterly (4) Annual (1)	Refer to site specific stormwater management plan requirements.	ments. • Sediment dewatering and removal. Refer site specific stormwater management plan requirements.	
РВ	PRIMARY BUFFER ZONE	A minimum 10m wide planted continuous buffer zone is to be established to both sides of the waterway channel, wetland area or other conservation zone. The buffer zone is to be planted at 4/m2 to establish scattered trees, areas of shrubs and ground layer vegetation recreating the prevailing EVC. Existing trees and areas of existing natural vegetation are to be incorporated into	Existing trees and areas of naturally occurring indigenous vegetation. Mass tubestock planting at 4/m2 into mulch Scattered tubestock infill planting to areas of existing vegetation. Maintenance access tracks and fencing	Straighten/replace stakes/ties/guards. Plant replacement/infill planting Establishment irrigation (if required) as required Top up of mulch areas and tree wells Inspect and top dress and repair Removal all tree guards/stakes.		Weed control and removal of litter Infill planting/replacement (1% p.a.) Inspect and top dress and repair access tracks and fencing	Annual (1) Annual (1) As required	
SB	SECONDARY BUFFER ZONE	buffer ZONE within 30m of the waterway, are also to be revegetated to form a secondary buffer. New tubestock planting at 1/m2 is to be used to link areas of existing native vegetation to the primary buffer zone and waterway. In areas with no existing native vegetation to the primary buffer zone and waterway. In areas with no existing native vegetation to the simary buffer zone and waterway. In areas with no existing native vegetation to the stablish scattered planting of overstorey trees and shrubs consistent with the % cover of the prevailing EVC. Seeding and weed control can also be used to assist natural regeneration of the surface of the secondary buffer. Seeding and weed control can also be used to assist natural regeneration of the secondary buffer. Seeding and weed control can also be used to assist natural regeneration of the secondary buffer. Seeding and weed control can also be used to assist natural regeneration of the secondary buffer. Seeding show the secondary buffer areas and tree well inspect and repair rabbit proof fence. Grass slashing spring/summer only and the secondary buffer. Seed native to the service of the prevention of the secondary buffer. Seed the native control can also be used to assist natural regeneration of the secondary buffer. Seed the secondary buffer. Seed the service of the prevention of the secondary buffer. Seed the service of the prevention of the secondary buffer. Seed the secondary buffer and the secondary buffer. Seed the secondary buffer and the secondary buffer. Seed the secondary buffer and the secondary buffer. Seed the seed native can agreed with Council. Scattered native control in the secondary buffer and the secondary buffer and the secondary buffer. Seed the native can also be a seed an attention. Scattered areas of tubestock infill planting. Emergent % cover on seeded area as agreed with Council. Straightening to scattered buffer as a greed with Council. Straightening to scattered buffer as a greed with Council. Straightening to scattered buffer as a g		Weed control – woody weeds to <1% other weeds to <5% or targets as agreed with Council. Emergent % cover on seeded areas as agreed with Council. Straighten/replace stakes/lies/guards. Plant replacement/infill planting Establishment irrigation (if required) Top up of muich areas and tree wells Inspect and top dress and repair existing tracks Inspect and repair rabbit proof fencing Grass slashing spring/summer only to	Quarterly (4) as required Annual (1) As required.	Removal all litter and weeds from mass planting beds and areas of existing native vegetation to <1% Top up of much to mass planting areas and existing frees Removal all tree guards/stakes. Weed control targets achieved as agreed with Council. Voorer on seeded revegetation areas as agreed with Council. Note failed seeding areas will need to be replanted with tubestock at 1/m2 and managed for a further 12 months prior to handover to Council. Maintenance tracks and fencing in condition as approved at Practical Completion.	Weed control and removal of litter Infill planting/replacement (1% p.a.) Grass slashing spring/summer only to assist weed control (prior to seed set for target species). Inspect and top dress and repair access tracks and fencing	Annual (1) as required
С	CONSERVATION ZONE	approved by Council. Areas of native vegetation (>25% cover) or area with significant flora species or utilised by significant fauna species listed for protection under provisions of the planning scheme, Federal or State legislation	Significant native vegetation Signage and/or fencing	Site protection, threat control/eradication targets as nominated in the site specific Conservation Area Management Plan have been met. Monitoring of signage and fencing.	Annual and as required	Protection and NetGain targets as nominated in site specific Conservation Area Management Plan have been met.	Monitoring, protection and implementation of spot control measures as nominated in the site specific Conservation Area Management Plan.	Annual (1) a required
R	RECREATION ZONE	Area used for recreation and higher levels of community use. Predominantly scattered trees into exotic grass (maintaining min 3.0m clearance for mowers) and feature garden bed planting. May include built facilities such as sports fields, playgrounds, shared paths, picnic/BBQ areas and lighting.	Garden bed areas Semi advanced trees Mown grass areas Paths and paved areas Playground Picnic Shelter, Seats, Tables, Signage, retaining walls, other structures Drinking fountain	Weed control, removal of litter, straightner/pelace stakes/lise/guards. Plant replacement/infill planting Establishment irrigation (if required) Mowing and edging to maintain grass between 5-10cm high. Min 8 cuts spring, 8 cuts summer, 2 cuts autumn, 2 cuts winter. Edging and cleaning Equipment inspection & maintenance Softfall mulch to pu p and litter removal Inspection & maintenance including removal of graffill repair any damage, retightening fixings & maintenance of applied finishes. Inspection & drainage check	Monthly (12) As required Monthly (12) Monthly (12) as required Annual (1) as required	100% removal all litter & weeds from garden beds and tree berms 80% cover on all mass planting Top up of mulch to mass planting and tree berms Formative pruning and removal all tree guards/stakes. Trees must be free standing. Playground soft fall topped up Paths edged, grass areas cut and 100% free of CALP weeds and litter. All structures and facilities in condition as approved at PC.	Weed control and removal of litter Garden bed infill planting/replacement (5% p.a.) Mowing and edging to maintain grass between 5-10cm high. Equipment inspection & maintenance Softfall mulch top up and litter removal Inspection & maintenance including removal of graffiti repair any damage, retightening fixings & maintenance of applied finishes. Inspection & drainage check Check and clean – Mon & Fri	Quarterly (4 Annual (1) 12-20 cuts/year Annual (1) a required Annual (1) Weekly (52 as required
Р	PATH ZONE	Linear space along all designated shared walking/cycling paths including bridges. Emphasis on management of hazards to cyclists and pedestrians including monitoring of overhanging trees and reterition of clear sightlines including pruning or removal of shrubs where required. Note clearances to bushwalking tracks are to be confirmed with Council.	BBQ Area Sealed paths Unsealed paths Grass verge Signage Bridge, boardwalks, viewing structures, retaining walls	Check and clean – Mon & Fri Clean and top dress path edges. Top dress soft spots Mow grass verges min 2 Om clearance to either side (max 10cm high) Monitor large overhamping trees and prune shrubs to retain min 2 Om clearance either side. Structural assessment & maintenance including removal of graffiti, repair any damagelerosion, retightening fixings & cables	Weekly (52) Annual (1) as required.	Paths and signage in condition approved at PC, level with surrounding landscape and free draining. Mown grass verges min 2.0m clearance to either side (max 10cm high) Shrubs pruned to required clearances as agreed with Council. Arborist assessment reports for any overhanging trees. Structural certification and repair/replacement any outstanding defects.	Paths and signage monitoring Mown grass verge maintenance Shrubs prunded or removed to required clearances either side Assessment of any overhanging trees. Structural inspection & repair or replacement of any outstanding defects	Annual (1) As required Annual (1) a required
ΓPZ	TREE PROTECTION ZONE	Protection area surrounding mature trees in accordance with AS4490.	Existing mature trees indentified for retention and protection in future open space areas.	Removal of Tree Protection Zone (TPZ) fencing and signage at completion of construction works. Weed control and mulch top up within TPZ using approved herbicide. Monitoring of remedial arboricultural works if required for public safety.	PC Annual Annual	Weed and litter removal to <1% Mulch cover topped up to 100mm Aluminium tree tag in place Supply of annual arboricultural inspection records	Arboricultural inspection and weed control where located within service, path and recreation zones. Syear arboricultural inspection where located within other zones.	Annual (1)
EW	ENVIRONMENT WEED CONTROL ZONE	Area containing identified high threat weeds which require specific control measures or actions.	Signage Fencing/wash down areas	Control and eradication targets as nominated in the site specific weed control management plan have been met. Monitoring of signage and machinery hygiene measures such as wash down areas.	Annual and as required	Control and eradication targets as nominated in site specific weed control management plan have been met.	Monitoring and implementation of mowing, machinery hygiene and spot control measures as nominated in site specific Weed Control Management Plan.	Annual (1) a required
UG OH	SERVICE ZONE	Area containing overhead or underground services subject to the legislative control of another agency.	Underground service/utility assets Overhead service/utility assets	Clearance, signage and access to pits, inspection points, cathodic protection and other above ground assets are maintained as per service authority requirements. Clearance, signage and access to overhead lines, poles and towers are maintained in accordance with service authority requirements.	Annual Annual	Council and service authority requirements have been met and signed off.	Monitoring and works as per service authority requirements.	Annual (1) a required

Waterway Management Zone Template (available in MS Word)

TYPICAL WATERWAY MANAGEMENT ZONES

PLAN CODE	MANAGEMENT ZONE	DESCRIPTION	ASSETS	ESTABLISHMENT MAINTENANCE	FREQUENCY	HANDOVER BENCHMARK	ONGOING MAINTENANCE	FREQUENCY
LB	LOWER BANK – CHANNEL ZONE	The lower bank or wet channel section of a natural or constructed waterway. Area subject to frequent inundation after local rainfall. Width may vary according to topography.	 Mass tubestock planting (4/m²) and 800 GSM jutemat where required for stabilisation. Infill planting to areas of existing native vegetation. Rockwork, woody debris, snags 	Removal of all litter and weeds to<1% Monitor erosion Plant replacement/infill planting	8 Visits Annually	Removal all litter & weeds to <1% Street St	Weed control and removal of litter Monitor natural spread of Typha and Phragmites. Control where emergent. Monitor jute mat and erosion	6 Visits Annually
W	WETLAND ZONE	Shallow and deep marsh wetland areas typically subject to water depths between 0-600mm but potentially drying out in summer. Open water pools/water bodies 0.6-to 2.0m deep.	Wetland aquatic planting (4-6/m²) Open water/deep pools Inlet/outlet structures, bypass channels, spillways, rockwork, weirs and drop structures.	Weed control & removal of litter to<1% Plant replacement/infill planting Sediment removal. Refer to site specific stormwater management plan requirements.	8 Visits Annually	Refer to site specific stormwater management plan requirements.	 Weed control and removal of litter Monitor natural spread of Typha and Phragmites. Control where emergent. Sediment and litter removal from structures. Refer site specific stormwater management plan requirements. 	
S	SEDIMENT POND / WSUD ZONE	Permanent open water inlet zone of a constructed wetland or drain outfall WSUD treatment/rain garden where sediment is trapped and periodically removed as part of routine maintenance.	 Drainage structures culverts, pits and pipes Gross Pollutant Trap, inlet structures Grass/gravel access track and sediment dewatering areas Signage and fencing Wetland aquatic planting 4-6/m² and 800GSM jute mat for stabilisation 	Weed control & removal of litter Plant replacement/infill planting Sediment removal. Refer to site specific stormwater management plan requirements.	8 Visits Annually	Refer to site specific stormwater management plan requirements.	Weed control and removal of litter Sediment dewatering and removal. Refer site specific stormwater management plan requirements.	6 Visits Annually
PB	PRIMARY BUFFER ZONE	A minimum 10m wide planted continuous buffer zone is to be established to both sides of the waterway channel, wetland area or other conservation zone. The buffer zone is to be planted at 4/m2 to establish scattered trees, areas of shrubs and ground layer vegetation recreating the prevailing EVC. Existing trees and areas of existing natural vegetation are to be incorporated into the planted buffer zone where possible.	 Mass tubestock planting at 2-4/m² into mulch – aim is to develop a dense groundcover planting with appropriate overstorey coverage Existing trees and areas of naturally occurring indigenous vegetation. Scattered tubestock infill planting to areas of existing vegetation. Maintenance access tracks and fencing 	Weed control, removal of litter to <1% Straighten/replace stakes/ties/guards. Plant replacement/infill planting Establishment irrigation (if required) Top up of mulch areas and tree wells Inspect and top dress and repair existing tracks Inspect and repair rabbit proof fencing	8 Visits Annually	 Removal all litter and weeds from mass planting beds and areas of existing native vegetation to <1% 80% cover on all new mass planting Top up of mulch to mass planting existing tree/vegetation areas Removal all tree guards/stakes. Maintenance tracks and fencing in condition as approved at Practical Completion. 	Weed control and removal of litter Infill planting/replacement (1% p.a.) Inspect and top dress and repair access tracks and fencing	6 Visits Annually
SB	SECONDARY BUFFER ZONE	Areas outside the primary buffer zone/waterway channel/wetlands, but within 30m of the waterway, are also to be revegetated to form a secondary buffer. New tubestock planting at 2/m2 is to be used to link areas of existing native vegetation to the primary buffer zone and waterway. In areas with no existing native vegetation the aim is to establish scattered planting of overstorey trees and shrubs consistent with the % cover of the prevailing EVC. Seeding and weed control can also be used to assist natural regeneration of native species following removal of grazing and cropping, where sites are approved by Council.	Scattered areas of tubestock infill planting (2/m²) – aim is to develop a groundcover planting with a scattered overstorey Existing trees and areas of naturally occurring indigenous vegetation. Areas of seeded native revegetation. Maintenance access tracks and fencing	Removal of litter to <1% Weed control – woody weeds to <1% other weeds to <5% or targets as agreed with Council. Emergent % cover on seeded areas as agreed with Council. Straighten/replace stakes/ties/guards. Plant replacement/infill planting Establishment irrigation (if required) Top up of mulch areas and tree wells Inspect and top dress and repair existing tracks Inspect and repair rabbit proof fencing Grass slashing spring/summer only to assist weed control (prior to seed set for target species) and for fire management purposes.	8 Visits Annually	 Removal all litter and weeds from mass planting beds and areas of existing native vegetation to <1% Top up of mulch to mass planting areas and existing trees Removal all tree guards/stakes. % weed control targets achieved as agreed with Council % cover on seeded revegetation areas as agreed with Council. Note failed seeding areas will need to be replanted with tubestock at 1/m2 and managed for a further 12 months prior to handover to Council. Maintenance tracks and fencing in condition as approved at Practical Completion. 	Weed control and removal of litter Infill planting/replacement (1% p.a.) Grass slashing spring/summer only to assist weed control (prior to seed set for target species). Inspect and top dress and repair access tracks and fencing	6 Visits Annually
C	CONSERVATION ZONE	Areas of native vegetation (>25% cover) or area with significant flora species or utilised by significant fauna species listed for protection under provisions of the planning scheme, Federal or State legislation	Significant native vegetation Signage and/or fencing	Site protection, threat control/eradication targets as nominated in the site specific Conservation Area Management Plan have been met. Monitoring of signage and fencing.	Annual or as per Conservation Area Management Plan	Protection and NetGain targets as nominated in site specific Conservation Area Management Plan have been met.	Monitoring, protection and implementation of spot control measures as nominated in the site specific Conservation Area Management Plan.	Annual or as per Conservation Area Management Plan

Waterway Management Zone Template (available in MS Word)

TYPICAL WATERWAY MANAGEMENT ZONES continued

CODE	MANAGEMENT ZONE	DESCRIPTION	ASSETS	ESTABLISHMENT MAINTENANCE	FREQUENCY	HANDOVER BENCHMARK	ONGOING MAINTENANCE	FREQUENCY
R	RECREATION ZONE	 levels of community use. Predominantly scattered trees into exotic grass (maintaining min 3.0m clearance for mowers) and feature garden bed planting. May include built facilities such as sports fields, playgrounds, Semi advanced trees straighten/replace stakes/ties/guards. Plant replacement/infill planting Establishment irrigation (if required) Mowing and edging to maintain grass between 5-10cm high. Min 8 cuts spring, 8 cuts summer, 2 cuts autumn, 		Monthly (12) As required	100% removal all litter & weeds from garden beds and tree berms 80% cover on all mass planting Top up of mulch to mass planting and tree berms Formative pruning and removal all tree guards/stakes. Trees must be free	Weed control and removal of litter Garden bed infill planting/replacement (5% p.a.) Mowing and edging to maintain grass between 5-10cm high. Equipment inspection & maintenance Softfall mulch top up and litter removal	Quarterly (4) Annual (1) 12-20 cuts/year	
		shared paths, picnic/BBQ areas and lighting.	 Paths and paved areas Playground Picnic Shelter, Seats, Tables, Signage, retaining walls, other structures 	2 cuts winter. Edging and cleaning Equipment inspection & maintenance Softfall mulch top up and litter removal Inspection & maintenance including removal of graffiti repair any damage, retightening fixings & maintenance of applied finishes.	Monthly (12) Monthly (12) as required Annual (1) as required	standing. Playground soft fall topped up Paths edged, grass areas cut and 100% free of CALP weeds and litter. All structures and facilities in condition as approved at PC.	 Inspection & maintenance including removal of graffiti repair any damage, retightening fixings & maintenance of applied finishes. Inspection & drainage check Check and clean – Mon & Fri 	Annual (1) as required Annual (1) Weekly (52) as required
			Drinking fountain BBQ Area	Inspection & drainage check Check and clean – Mon & Fri	Weekly (52)			
P	PATH ZONE	Linear space along all designated shared walking/cycling paths including bridges. Emphasis on management of hazards to cyclists and pedestrians	Sealed paths Unsealed paths Grass verge Signage	Clean and top dress path edges. Top dress soft spots Mow grass verges min 2.0m clearance to either side (max 10cm high)	Annual (1) as required.	Paths and signage in condition approved at PC, level with surrounding landscape and free draining. Mown grass verges min 2.0m clearance	Paths and signage monitoring Mown grass verge maintenance Shrubs pruned or removed to required clearances either side.	Annual (1) As required
		including monitoring of overhanging trees and retention of clear sightlines including pruning or removal of shrubs where required. Note clearances to bushwalking tracks are to be confirmed with Council.	Bridge, boardwalks, viewing structures, retaining walls	 Monitor large overhanging trees and prune shrubs to retain min 2.0m clearance either side. Structural assessment & maintenance including removal of graffiti, repair any damage/erosion, retightening fixings & cables 		to either side (max 10cm high) Shrubs pruned to required clearances as agreed with Council. Arborist assessment reports for any overhanging trees. Structural certification and repair/replacement any outstanding defects.	 Assessment of any overhanging trees. Structural inspection & repair or replacement of any outstanding defects 4 sprays per year for gravel paths 	Annual (1) as required
TPZ	TREE PROTECTION ZONE	Protection area surrounding mature trees in accordance with AS4490.	Existing mature trees indentified for retention and protection in future open space areas.	 Removal of Tree Protection Zone (TPZ) fencing and signage at completion of construction works. Weed control and mulch top up within TPZ using approved herbicide. Monitoring of remedial arboricultural works if required for public safety. 	PC Annual Annual	Weed and litter removal to <1% Mulch cover topped up to 100mm Aluminium tree tag in place Supply of annual arboricultural inspection records	Arboricultural inspection and weed control where located within service, path and recreation zones. 5 year arboricultural inspection where located within other zones.	Annual (1)
EW	ENVIRONMENT WEED CONTROL ZONE	Area containing identified high threat weeds which require specific control measures or actions.	Signage Fencing/wash down areas	 Control and eradication targets as nominated in the site specific weed control management plan have been met. Monitoring of signage and machinery hygiene measures such as wash down areas. 	Annual or as per Weed Control Management Plan	Control and eradication targets as nominated in site specific weed control management plan have been met.	Monitoring and implementation of mowing, machinery hygiene and spot control measures as nominated in site specific Weed Control Management Plan.	Annual or as per Weed Control Management Plan
UG OH	SERVICE ZONE	Area containing overhead or underground services subject to the legislative control of another agency.	Underground service/utility assets Overhead service/utility assets	Clearance, signage and access to pits, inspection points, cathodic protection and other above ground assets are maintained as per service authority requirements. Clearance, signage and access to	Annual Annual	Council and service authority requirements have been met and signed off.	Monitoring and works as per service authority requirements.	Annual (1) as required
				overhead lines, poles and towers are maintained in accordance with service authority requirements.				

Waterway Planting Species Guide (available in MS Word)

		ECC	DLOGICA	L VEGE	TATION (CLASS (E	VC)		WA	TERWAY	Y MANAG	SEMENT G	UIDELIN	ES	
The planting list below has been develope										E					
information refer to the DEPI website for E	·	RIPARIAN FOREST	l ∟	8		SWAMPY RIPARIAN WOODLAND	SUB.	뿌	PRIMARY BUFFER ZONE	SECONDARY BUFFER ZONE	岁	SEDIMENT POND / WSUD	RECREATION ZONE		ш
Baw Shire Indigenous Revegetation Guide. Planting within 10m of a waterway			DAMP FOREST	SWAMP SCRUB	WETLANDAND FORMATION	Y RIP/	RIPARIAN SCRUB	LOWER BANK CHANNEL ZONE	A BUI	ARY	WETLAND ZONE	P P	TION	N.	SERVICE ZONE
	or conservation area must be completed using indigenous species of local			AMP	ETLAN	/AMP	ARIA	WER	IMAR,	CON	II.	DIME	CREA	PATH ZONE	RVICE
provenance (grown from locally sourced so		~	Þα	SV	N G	SV	~	일당	# N	SE	₹	S X	RE	Α	S
benchmark. No weed species are to be pl within 100m of any waterway.	anteu to open space areas and streets	8	29	53	74	83	191								
SPECIES	COMMON NAME	EVC 18	EVC 29	EVC 53	EVC 74	EVC 83	EVC 191	LB	PB	W	SP	SB	R	Р	S
LARGE TREES					•										
Eucalyptus ovata	Swamp Gum	•				•	•		•	•			•		
Eucalytpus obliqua	Messmate Stringybark	•	•							•			•		
Eucalyptus radiata	Narrow-leaf Peppermint	•	•			•				•			•		
Eucalyptus cypellocarpa	Mountain Grey Gum		•							•			•		
Eucalyptus strzeleckii	Strzelecki Gum	•							•	•			•		
Eucalyptus viminalis	Manna Gum	•	•						•	•			•		
SMALL TREES/LARGE SHRUBS (5-10m)	<u> </u>														
Acacia dealbata	Silver Wattle	•	•						•	•			•		
Acacia melanoxylon	Blackwood	•	•			•			•	•			•		
Leptospermum lanigerum	Woolly Tea-tree			•	•	•	•	•	•	•			•		
Melaleuca ericifolia	Swamp Paperbark			•	•	•	•	•	•	•			•		
Melaleuca squarrosa	Scented Paperbark				•		•	•	•	•			•		
Polyscias sambucifolia	Elderberry Panax	•	•						•	•			•		
Pomaderris aspera	Hazel Pomaderris	•	•						•	•			•		
Prostanthera lasianthos	Victorian Christmas-bush	•	•						•	•			•		
MEDIUM SHRUBS (2-5m)															
Acacia verticillata	Prickly Moses	•	•				•		•	•			•		
Cassinia aculeata	Common Cassinia		•						•	•			•		
Coprosma quadrifida	Prickly Currant-bush	•	•	•		•			•	•			•		
Leptospermum continentale	Prickly Tea-tree	•		•	•	•	•		•	•			•		
Olearia lirata	Snow-Daisy bush	•	•						•	•			•		
Ozothamnus ferrugineus	Tree Everlasting	•	•						•	•			•		
LOW SHRUBS (<2m)															
Goodenia ovata	Hop Goodenia	•	•						•	•			•	•	•
Ozothamnus rosmarinifolius	Rosemary Everlasting						•		•				•		•
Sambucus gaudichaudiana	White Elderberry		•						•	•			•		
GRASSES / SEDGES	1										<u> </u>	l			
Carex appressa	Tall Sedge	•	•		•	•		•	•		•	•	•	•	
Carex fascicularis	Tassel Sedge				•		•	•	•		•	•			
Dianella tasmanica	Tasman Flax-lily	•	•	ļ					•	•			•	•	•
Gahnia sieberiana	Red-fruit Saw-sedge	•		ļ	•		•		•	•			•		
Lomandra longifolia	Spiny-headed Mat-rush	•	•	•	•				•	•			•	•	•
Poa labillardierei	Common Tussock Grass	•	•	•	•	•			•	•			•	•	•
Poa tenera	Slender Tussock Grass	•				•									
Microlaena stipoides	Weeping Grass	•	•			•			•	•			•	•	•
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			DLOGICA	L VEGE	TATION (CLASS (E	EVC)	WATERWAY MANAGEMENT GUIDELINES										
Donate de la California de la calenda	de consultar a descripción de altra de									œ								
Pre-ordering of indigenous species at least s		EST				RIAN	UB	ш	FER	3UFFE	ш) 2	ONE					
recommended to enable suppliers to source stock for larger projects. A list of local suppl		Y FOR	REST	SCRUE	DAND	RIPA	I SCR	3ANK L ZON	BUF	ARY E	NOZ Q	9	TION	쒿	ZONE			
Stock for larger projects. A list of local suppl	iers is available from Council.	RIPARIAN FOREST	DAMP FOREST	SWAMP SCRUB	WETLANDAND FORMATION	SWAMPY RIPARIAN WOODLAND	RIPARIAN SCRUB	LOWER BANK CHANNEL ZONE	PRIMARY BUFFER ZONE	SECONDARY BUFFER ZONE	WETLAND ZONE	SEDIMENT POND / WSUD	RECREATION ZONE	PATH ZONE	SERVICE ZONE			
SPECIES	COMMON NAME	EVC 18	EVC 29	EVC 53	EVC` 74	EVC 83	EVC 191	LB	РВ	w	SP	SB	R	Р	s			
GROUND LAYER (<1m)					!													
Acaena novea-zelandiae	Bidgee-widgee	•	•			•			•	•								
Dichondra repens	Kidney Weed	•				•			•	•			•	•	•			
Goodenia humilis	Trailing Goodenia			•				•	•									
Viola hederacea	lvy-leaf violet	•	•						•	•			•	•	•			
FERNS																		
Blechnum cartilagineum	Gristle Fern		•	•					•									
Blechnum wattsii	Hard Water-fern	•						•	•						•			
Calochlaena dubia	Common Ground-fern	•	•						•						•			
Cyathea australis	Rough Tree-fern	•	•						•				•					
Polystichum proliferum	Mother Shield-fern	•	•						•	•			•					
CREEPERS / CLIMBERS																		
Clematis aristata	Mountain Clematis	•	•						•	•					•			
AQUATICS / SEMI AQUATICS																		
Alisma plantago-aquatica	Water Plantain				•			•			•	•						
Baloskion tetraphyllum	Tassel Cord Rush				•		•	•	•		•	•						
Baumea rubiginosa	Soft Twig Rush			•	•			•	•		•	•						
Baumea tetragona	Square Twig-sedge				•		•	•	•		•	•						
Carex appressa	Tall Sedge	•	•		•	•		•	•		•	•	•	•				
Carex fascicularis	Tassel Sedge				•		•	•	•		•	•						
Cyperus lucidus	Leafy Flat-sedge				•	•		•			•	•						
Eleocharis acuta	Common Spike Sedge			•	•		•	•			•	•						
Eleocharis sphacelata	Tall Spike-sedge				•			•			•	•						
Isolepis inundata	Swamp Club-sedge	•		•	•			•			•	•						
Juncus amabilis	Hollow Rush				•			•			•	•						
Juncus gregiflorus	Green Rush			•	•			•			•	•						
Juncus pauciflorus	Loose-flower Rush				•			•			•	•						
Juncus procerus	Tall Rush			•	•	•	•	•			•	•						
Lycopus australis	Australian Gypsywort				•			•			•	•						
Lythrum salicaria	Purple Loosestrife				•			•			•	•						
Persicaria decipiens	Slender Knotweed				•			•			•	•						
Triglochin procerum	Water Ribbons			•	•		•	•			•	•						
Schoenoplectus tabernaemontani	River Club-rush				•			•			•	•						
Villarsia reniformis	Running Marsh Flower			•	•	•	•	•			•	•						

	Buffer Zone Mix	Use of turf is to be kept to a minimum – check with WGCMA and Shire prior to developing preliminary WMP
	Recreational Zone Mix	Varies depending on proposed recreational use – check with Shire recreational staff