

GENERAL

1.1 INTRODUCTION

This rehabilitation and maintenance action plan has been prepared to provide technical support and practical aid for riparian works proposed along the northern banks of Fish Creek, on state-owned land described as RP GLR6099 and forming part of the grounds of Hilder Road State School, The Gap. In consultation with Brisbane City Council, this study focuses on the extent of works which are defined, for the purposes of this report, as Stage 1; extending 60 m on an east-west alignment from the Hilder Road culverts, from the top of bank to the waterline and totaling an area of approximately 600 square metres (as illustrated in **Figure 1**).

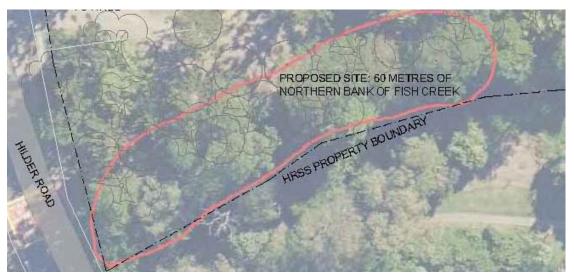


Figure 1- Location Plan (Google Earth, 20013) & Site Plan excerpt (see Attachment end of report)

The primary objective of the proposed works is to conserve and enhance existing native vegetation and habitat values along the creek, and help restore the ecological value of this part of the Fish Creek corridor. As a result of storm damage (from The Gap storms in 2008), weed invasion and a history of little or no ongoing bushcare programs on this part of Fish Creek, the proposed rehabilitation strategy will help clean up storm damage, remove weeds and revegetate and provide ongoing management programs to achieve the primary objective.

A secondary objective is to engage the Hilder Road State school community. As environmental sustainability is an identified area of importance in the Australian National Curriculum, the project is also aimed to provide HRSS children opportunities to connect with nature through the syllabus, or as part of the pre-existing Environment Committee; comprised of children who are passionate about the environment and creating a sustainable future.

Notwithstanding this, the northern banks are not designed for informal school use (ie. At playtimes, and nor is it publicly used) however it will be accessible for initial site preparation and selective clearing, weed sweeps, regenerative planting and follow up maintenance

programs by a core group of volunteers, contractors and particular students and teachers as part of school curricular or Committee activities (subject to relevant HRSS and Principal approvals, at the time).

1.2 CONTEXT AND BACKGROUND

Fish Creek begins in the ranges of Brisbane Forest Park and forms part of the Enoggera Catchment. Stormwater runoff and overland flow from the urbanised foothills of The Gap near Belclare Street channelize the flows where it forms an open stream at Wittonga Park. From here, it meanders through The Gap and then feeds into Enoggera Creek in Ashgrove (**Figure 2**).



Figure 2– Location Plan & Surrounding Context (Google Earth, 20013)

The northern banks of Fish Creek forms part of the southern boundary of the School and at present is fenced off at the top of the bank, separating the creekbank and the gravel entry road. A number of mature trees and conifers planted either side of the access road form a boulevard effect, and provide shade for the informal carpark along this road. The creek bank includes areas that contain integral native vegetation as well as areas that are degraded by weeds and require restoration. Dead and fallen trees are reminders of the extent of storm damage from the 2008 'Gap Storms'.

1.3 RESPONSIBILITIES AND TIMING

All tree removal to be undertaken by qualified and experienced tree loppers. Initial site preparation works are to be undertaken by experienced bush regenerators with voluntary support, including student help where appropriate and as approved by the HRSS Principal.

DescriptionTimingTree removal (5 mature trees)By 31st October 2013

First 'weed sweep' and preliminary site clearing	By 31 st January 2014
Revegetation Planting undertaken by children & general school community as part of National Tree Planting Day	End March 2014 (National Tree Planting Day – August 2014)
Revegetation and remediation works by children, staff and volunteers	Various activities including school curricula, or as part of ongoing remediation works

Plant species will be selected in accordance with S.O.W.N, and as recommended by Brisbane City Council. Any major proposed changes to the plant schedule are to be approved by Brisbane City Council's Habitat Officer.

HRSS P&C has committed \$2,000 funding annually to contribute in maintaining the site and potentially expand on the scale of the project as funding becomes available.

2.1 INTENT

The specific intent of the proposed rehabilitation plans include:

Aims

To protect and enhance the existing habitat and ecological corridor values of Fish Creek

To engage the school community in Restoration works and ongoing remediation (where required) as an outdoor learning centre

To assist Natural Regeneration and emerging native species where areas of riparian vegetation are disturbed

To undertake Restoration of emerging canopy layer (lost through storms) and understorey following weed/vegetation removal

Generally this rehabilitation plan aims to:

- Provide a description of rehabilitation works to assist site works and inform funding and future management and maintenance programs, including potential for school community input;
- Identify plant species, stock size, quantities (dependent on S.O.W.N availability) and general locations;
- Identify the protection and enhancement of natural physical processes in collaboration with teaching staff for incorporation into the school curriculum;
- •Identify weed and noxious plan management strategies, site preparation and planting methods; and
- Identify the management and monitoring protocols to ensure rehabilitation is successful.

1.4 NATIVE VEGETATION

Although a variety of native flora species were recorded in the area from preliminary site surveys, a number of database searches were also undertaken to identify the Regional Ecosystem (RE) mapping and Essential Habitat under the Vegetation Management Act. These searches identified the site as 'Non remnant' and there were no targeted species recorded on site that were classified under both the Nature Conservation Act (1992), the Environment

Protection and Biodiversity Conservation Act (1992) nor under the State priority ranking system 'Back on Track' (BOT: Queensland Government) (**Appendix A**).

The riparian corridor located on the northern banks of the waterway is well vegetated, with a combination of exotic and native vegetation, and includes a sparse but mixed eucalypt/exotic pine canopy over a variety of understorey species both exotic and native. Generally the ground layer includes a mixture of native and exotic elements such as Molasses Grass (*Melinis multiflorus*), Blady Grass (*Imperata cylindrica*), Sprenger's Asparagus (*Asparagus densiflorum*) as well as Bracken Fern, Barbwire Grass (*Cymbopogon refractus*) and Mat Rush (*Lomandra longifolia*). Most noticeably, areas within the delineation area of Stage 1 have an infestation of the ground layer by the weed Singapore Daisy (*Sphagneticola trilobata*) and Sprenger's Asparagus fern. A site survey in May 2013 identified a range of native flora species along Fish Creek (see Table 1 below), and although all were classified as of 'Least Concern', they are proposed to be retained and protected for their contribution to biodiversity and habitat values.

The upstream section of the waterway through Wittonga Park becomes a series of dams in the drier months and is vegetated with a variety of water plants including frogmouth (*Philydrum lanuginosum*) and Tall flat sedge (*Cyperus exaltatus*) amongst a mix of aquatic weed species Cyperus papyrus (*Nile Grass*). The canopy elements of this area include a combination of fig trees and riparian vegetation, including the Weeping lilly pilly (Waterhousia floribunda) and broad leafed paper bark (*Melaleuca quinquenervia*) and black she oaks (*Allocasuarina littoralis*) and mature weed trees such as the Strawberry guavas. The waterway is directed under Hilder Road via a series of large, open culverts.

The existing site conditions upstream at Wittonga Park is fairly disturbed, with evidence of streambank erosion and weed invasion (due in part to high use by children) and loss of mature riparian vegetation due to floods and/or storm damage. Downstream, on the subject land, although there is some weed infestation, the area is fenced off and there is evidence of streambank erosion attributable to particular major flood events (ie. 2008, and 2011).

TABLE 1 - SURVEYED NATIVE VEGETATION & EMERGING VEGETATION TO BE RETAINED

Species name	Common name	
Acacia disparrima	Hickory Wattle	
Acacia fimbriata	Brisbane Wattle	
Adiantum hispidulum	Rough Maidenhair Fern	
Allocasuarina littoralis	Black She Oak	
Cyathea cooperi	Tree fern	
Cyperus exaltatus	Tall Flat Sedge	
Eleocarpus grandis	Quandong	
Eucalyptus crebra	Narrow-Leaved Ironbark	
Ficus benjamina	Weeping Fig	
Ficus coronata	Sandpaper Fig	
Gahnia clarkei	Tall Sawsedge	
Goodenia rotundifolia	Star Goodenia	

Grevillea banksii (p)	Red Silky Oak
Harpulia pendual	Tulipwood
Lomandra longifolia	Long-Leaf Matrush
Lomandra hystrix	Green Matrush
Macaranga tanarius	Macaranga
Mallotus philippensis	Red Kamala
Melaleuca quinquenervia	Paperbark
Pandorea jasminoides	Bower Vine
Parsonsia straminea	Monkey Rope
Pittosporum revolutum	Forest Pittosporum
Pittosporum undulatum	Sweet Pittosporum
Waterhousia floribunda	Weeping lilly pilly

<u>Note</u>: While considerable effort has been made to document all species encountered by utilising best practice techniques for plant survey, there are a number of caveats that should be considered when reviewing this list including:

- Some plant species may be dormant at the time of survey or had insufficient fertile material to allow a positive identification;
- Time constraints associated with any survey inevitably means that some species are overlooked; and
- There are rare occasions where specimens may be misidentified for a variety of reasons.

1.5 FAUNA

Although a detailed fauna survey of the site was not undertaken a desktop review was undertaken at http://www.ehp.qld.gov.au/wildlife/wildlife-online/. The full results are presented in the Appendix. A variety of species were recorded in the area including a number of species of significance:

Recordings of Grey Goshawk and the Turquoise Parrot in the area - listed as 'Near Threatened' species under the *Nature Conservation Act 1992*;

The Common Death Adder and rare Elf Skink also classified as 'Near Threatened' under the *Act*;

The presence of the Grey Headed Flying Fox whose conservation status under the *Environment Protection and Biodiversity Conservation Act 1999 (EPBC)* is 'Vulnerable' and identified under the State priority ranking system ('BOT') as 'Critical' (see **Appendix A**).

1.6 WEEDS

Assessment of the area on 20th May 2013 recorded the following exotic species in the 60m transect that forms the Stage 1 area (approximately 600 sqm) of the revegetation program, and is fairly typical of the northern banks of Fish Creek overall.

TABLE 2- WEED SPECIES

Species name	Common name	State/Council Declared Plants	
Ageratina riparia*	Mist Flower	X	
Ambrosia artemisiifolia	Annual Ragweed	X	

Species name	Common name	State/Council Declared Plants	
Arecastrum romanzoffianum	Cocos Palm	X	
Asparagus densiflorum*	Sprenger's Asparagus		
Asparagus africanus	Asparagus fern spp.		
Asparagus aethiopicus			
Cassia fistula	Golden Raintree		
Celtis sinensis	Chinese Elm	X	
Cinnamomum camphora	Camphor Laurel	X	
Coprosma repens	New Zealand Umbrella	X	
Cyperus eragrostis	Umbrella Sedge	X	
Eugenia uniflora	Brazilian Cherry	X	
Gomphocarpus fruticosus	Balloon Cotton Bush	X	

Species name	Common name	State/Council Declared Plants	
Ipomoea cairica	Mile-a-minute	X	
Jacaranda mimosifolia	Jacaranda	X	
Lantana spp.	Lantana	X	
Megathyrsus maximus	Guinea Grass	X	
Melinis minutiflora	Molasses Grass	X	
Murraya paniculata	Mock Orange	X	
Ochna serrulata	Ochna	X	
Psidium guajava	Strawberry Guava	X	
Schefflera actinophylla	Umbrella Tree	X Miniature version (spp. Arboricolia)	
Schinus terebinthifolius	Broad-leafed Pepper	X	
Senna penduala var. glabrata	Easter cassia	X	
Solanum hispidulum	Devil's Fig	X	
Solanum chrysotrichum	Giant Devil's Fig	X	
Spathodea campanulata	African Tulip tree	X	

Species name	Common name	State/Council Declared Plants	
Sphagneticola trilobata	Singapore Daisy	X	
Thevetia peruviana	Yellow Oleander	X	
Tradescantia fluminensis	Wandering Jew	X	
Wisteria sinensis	Chinese Wisteria		

Of the above species, some are identified as State-Declared pest-species, with others declared by Brisbane City Council as "Environmental Weeds". These species include Asparagus ferns (Asparagus spp.), Camphor Laurel (Cinnamomum camphora), Lantana (Lantana camara), Creeping Lantana (Lantana montevidensis), Molasses Grass (Melinis multiflora), Ochna (Ochna serrulata), Umbrella Tree (Schefflera actinophylla), Broad-leaved Pepper Tree (Schinus terebinthifolius), Mile-a-minute (Ipomoea cairica) and Singapore Daisy (Sphagneticola trilobata) to name a few.

Of the species recorded in Table 2 Camphor Laurel, Lantana, Creeping Lantana, Broad-leaved Pepper Tree and Singapore Daisy are listed as Class 3 under the *Land Protection (Pest & Stock Route Management) Act 2002* (LPA). The School must take reasonable steps to keep land free of Class 2 and 3 pests

2. SITE WORKS

Although it is envisaged that the northern banks of Fish Creek on School property will form future stages for rehabilitation, Stage 1 relates to an area of approximately 600 square metres running alongside the creek, and forms a template for future works. This includes the following treatments in both the terrestrial zone and along the creek edges:

- Removal of dead or unstable trees and vegetation;
- Removal of weeds;
- Assisted natural regeneration, and
- Planting and revegetation.

2.2 VEGETATION STRATEGY

Rehabilitation strategies have been developed based on site conditions, weed presence and existing vegetation.

Prior to the rehabilitation works, the existing weed species identified in **Table 2** must be eradicated (Refer to section 2.3 Weed Management). It is anticipated that existing native species in the integral parts of the corridor will colonise further with the removal of competition from weed species. The creation of ideal habitat for these species during rehabilitation works will facilitate their proliferation.

The general structure of the naturally regenerating plant stock is similar to the surrounding reference community, and includes species which are representative of a riparian zone. It is characterised by an understorey of sedges with a combination of Casuarina spp., Eleocarpus and/or Eucalypts dominating the middle and upper storeys. The appropriate rehabilitation in this instance relates to a combination of approaches, including a) natural regeneration (and assisted natural regeneration) and c) Revegetation. The strategy will be staged as follows:

- Remove selected trees nominated for removal (and approved by BCC) (by contractors)
- Commence weed 'sweeps' to remove weeds (planting not required at this stage) in accordance with Timing (section 1.3)
- Planting where required is to be undertaken in accordance with Table 6.

2.3 WEED MANAGEMENT

All weed species throughout all areas are to be removed according to the methods set out in Table 3.

TABLE 3 - WEED CONTROL METHODS

,	
	Hand Removal Removal of small weeds by hand. To be employed for weeds where the entire root system can be easily removed by hand whilst minimising soil disturbance. Care is necessary to ensure seed is not disbursed. Plants likely to restrike (eg Singapore Daisy) or set propagules must be removed from site.
	ii.
	Crown or underground stem removal Employed for plants growing from a solid central crown below ground level such as Protasparagus aethiopicus: a blade is used to severe the roots from the central crown; severing the attached roots and removing the crown or underground stem with the plant; seed heads must be removed prior to crowning. Cut material and seeds are to be removed from site.
	iii.
	Cut stump method This method is ideal for woody plants and vines without aerial tubers: Cut the stem close to the ground, if possible below the lowest branch; immediately (with 30 seconds) apply herbicide using a small squeeze bottle to the cut surface; Generally 1 part Glyphosate (or similar product) to 1.5 parts of water is suitable to achieve a kill with most species Cut material will be left on site to enhance fauna habitat, except where, in the judgement of the Contractor the material is likely to restrike (e.g. Singapore Daisy) or set propagules. In this case material is to be transported as waste from the site and not utilised onsite.
	iv.
	Spraying Council has advised not to spray within the riparian zone .
	V.
	Scraping the stem method This method is used for plants with aerial tubers, such as Madeira Vine. a sharp knife is employed to lightly scrape a section of stem (approximately 10cm) removing bark and exposing the living tissue; apply herbicide immediately (within 30 seconds) to the exposed section with a small squeeze bottle; Generally 1 part Glyphosate (or similar product) to 1.5 parts of water is suitable to achieve a kill with most species

Weed control techniques for individual species are tabulated below.

TABLE 4 - WEED SPECIES AND SPECIFIC REMOVAL TECHNIQUES

Family Name	Species Name	Common Name	Removal Technique				
			i	ii	iii	iv	v
ASTERACEAE	Ageratina riparia	Mist Flower	Х				
ASPARAGACEAE	Asparagus densiflorum	Sprenger's Asparagus	Х				
LAURACEAE	Cinnamomum camphora	Camphor Laurel	х		х		
RUBIACEAE	Coprosma repens	New Zealand Umbrella	х				
CYPERACEAE	Cyperus ubsp. tis	Umbrella Sedge	Х				
	Eugenia	Brazilian cherry tree					
FABACEAE	Erythrina sp.	Coral Tree	Х		Х		
ASCLEPIADACEAE	Gomphocarpus fruticosus	Balloon Cotton Bush	х				
POLYGONACEAE	Ipomoea cairica	Mile-A-Minute	Х				
CONVOLVULACEAE	Ipomoea indica	Morning Glory	Х				
	Jacaranda mimosifolia	Jacaranda	X		Х		
VERBENACEAE	Lantana camara	Lantana	Х				
VERBENACEAE	Lantana montevidensis	Creeping Lantana	х				
POACEAE	Megathyrsus maximus	Guinea Grass	Х				
POACEAE	Melinis minutiflora	Molasses Grass	х				
RUTACEAE	Murraya paniculata	Mock Orange			Х		
OCHNACEAE	Ochna serrulata	Ochna	Х				
	Psidium guajava	Strawberry Guava	х		х		
ARALIACEAE	Schefflera actinophylla	Umbrella Tree			Х		
ANACARDIACEAE	Schinus terebinthifolius	Broad-Leafed Pepper			х		
	Senna penduala var. glabrata	Easter cassia					
SOLANACEAE	Solanum hispidulum	Devil's Fig	х				
	Spathodea campanulata	African Tulip tree	х		х		
ASTERACEAE	Sphagneticola trilobata	Singapore Daisy	Х				
	Thevetia peruviana	Yellow Oleander	Х				
	Wisteria sinensis	Chinese Wisteria	Х				

Note: Hand removal is the preferred method of herbaceous weed control near creeks and waterways. Where this is ineffective contact Council to inquire about use of RoundUp Bioactive, or a similar product suitable for use in waterways.

If Brazilian Fireweed (Erechtites valerianifolius) and Groundsel (Baccharis halimifolia) are located on site and seed heads are present these are to be 'bagged' and manually removed from site prior to treating the specimen in situ. Umbrella Tree (Schefflera actinophylla) is not to be removed while in flower.

2.4 PLANTING METHODS

Plant species, densities and quantities for the area have been broadly based on achieving suitable plant cover according to Council requirements, soil stabilisation and availability of local native species.

Recommendations regarding the size of planting stock, mulch specifications and any other necessary treatments for all areas, such as weed control, are detailed below, and should be adhered to for any future site remediation or revegetation, or works undertaken by children and teachers as part of the school curriculum.

TABLE 5 - VEGETATION ESTABLISHMENT METHODOLOGY

Task	Recommendations				
Weed Control	Table 3 illustrates the recommended methods of weed control.				
	Hand removal is the preferred method of herbaceous weed control near				
	creeks and waterways, however, where this is ineffective it is advised to				
	contact Council.				
	In the case of spraying (subject to Council approval), particular care must be				
	taken to avoid poisoning native species, particularly young saplings, native				
	grasses and herbaceous species.				
	Where spraying exotic grasses has been approved – particular care must be				
	taken to avoid spraying native grasses.				
	Two weeks following spraying of rank exotic grasses these are to be				
	knocked down by brushcutting - particular care must be taken to avoid				
	slashing native species.				
Mulch	No mulching is required				
Plant Supply	Seedlings shall be sourced from local provenance stock through S.O.W.N.				
	Final species and numbers are market-dependant but will be endemic				
	species, where possible.				
Planting	Planting technique is illustrated below:				
	Tubestock Planting Plant in a slight shallow twice the size of				
	the tube container, ensuring rootball is just below soil surface.				
	Fertiliser tablet to be placed adjacent to, but not touching, the rootball				
	Soil to be backfilled to the same level as				
	when the plant was in the container				
	· · · · · · · · · · · · · · · · · · ·				
	Seedlings must be moist at time of planting, if necessary water stock prior to				
	planting.				
Watering	Seedlings are to be watered with a minimum of $5 - 10$ litres of water each at				
	the time of planting and then watered as part of general maintenance				
	requirements.				

Maintenance	and	Plantings should be maintained for a minimum period of 12 weeks.
Monitoring		r

RECOMMENDED SPECIES FOR PLANTING

Plants are specified in Table 6 below.

Table 6 – Recommended Species (based on SOWN recommendations & availability)

Species	Common Name	Planting Density*	Planting size	Canopy	Mid storey	Ground cover	Growing region**
Acmena smithii	Lilly Pilly	1	Tubestock		25		DRT
Acacia fimbriata	Brisbane Wattle	1.5	Tubestock		10		DPS
Aleocasia brisbanensis	Conjevoi	1	Tubestock			25	CKINU
Angophora subvelutina	Red Apple	1	Tubestock	5			DRS
Backhousia myrtifolio	Grey Myrtle	1	Tubestock		10		DRT
Brachychiton discolour	Lacebark	1	Tubestock	10			DRT
Breynia oblongifolia	Breynia	1	Tubestock		10		DRS
Carissa ovata	Currant Bush	1	Tubestock		10		DRS
Castanospermum austral	Black Bean	1	Tubestock	5			CKINU
Casaurina cuuningahamiana	River She Oak	1	Tubestock	10			CKINU
Christella dentata	Binung Fern	3	Tubestock			25	СКВК
Cordyline petiolaris	Palm Lily	2	Tubestock		10		DRT
Crinum pendunculatum	Brisbane Lily	2	Tubestock			30	CKINU
Doodia aspera	Rasp Fern	3	Tubestock			25	CKBK
Diospyros geminate	Queensland Ebony	1	Tubestock		15		DPS
Elaeocarpus grandis	Blue Quandong	1	Tubestock	10			DRT
Elaeocarpus obovatus	Hard Quandong	1	Tubestock	10			DRT
Elattostachys xylocarpa	White Tamarind	1	Tubestock	10			DRT
Eustrephus latifolius	Wombat Berry	1	Tubestock			25	V
Geitonoplesium cymosum	Scrambling Lily	1	Tubestock			15	V
Hardenbergia violacea	Hardenbergia	1	Tubestock			25	V
Hibiscus beterophyllus	Native Hibiscus	1	Tubestock		15		DRS
Hymenospermum flavum	Native Frangipani	1	Tubestock	5			DRS
Jagera pseudorhus	Foam bark	1	Tubestock	10			СКВК

Juncus usitatus	Common Rush	3	Tubestock			60	CKINU
Kennedia rubicunda	Ruuning Postman	1	Tubestock			25	V
Leptospermum polygalifolium	Wild May	1	Tubestock		10		DPS
Lomandra Iongifolia	Matrush	2	Tubestock			60	CKINU
Lomandra hystrix	Green Matrush	2	Tubestock			60	CKINU
Lophostemon confertus	Brush Box	1	Tubestock	5			DPS
Myllotus claoxloides	Smell of the Bush	1	Tubestock		25		СКВК
Pipturus argenteus	Native Mulberry	1	Tubestock		20		DRS
Pittosporum revolutum	Brisbane Laurel	1	Tubestock	5			DRT
TOTAL				85	160	375	

^{*} Density provided in metre centres

PROTECTION OF PLANTING

It is recommended that individual tree guards protect newly planted stock from scrub turkeys and other fauna, however, as there is an existing fence along most of the northern bank, this is sufficient to delineate a 'no go' zone to protect plants from children or pedestrian access.

^{**} **Growing regions**: CKINU – Creekbank inundation, CKBK – Creekbank no inundation, DRS – Dry Rainforest Shrubs, DRT – Dry Rainforest Trees, V- Vines, DPS – Dryer, higher areas with poor Soil.

3. MAINTENANCE, MONITORING AND PERFORMANCE

INDICATORS

3.1 TIMEFRAMES

The initiation of work will begin as soon as funding becomes available. Once the initial tree removal, site clearing and weed sweeps have been undertaken, planting will be undertaken in partnership with the students and teachers of Hilder Road State School, parents and bushcare volunteers and will be completed as part of (and in association with) Planet Ark's National Tree Planting Day on the 14th March 2013.

3.2 MAINTENANCE/MANAGEMENT

All areas are to be maintained periodically, at least every 12 weeks with scheduled maintenance to include:

- Weed control and 'weed sweeps':
- Watered on an as needs basis. It is anticipated that following planting approximately 2 waterings will be required before the end of the establishment period (depending on rainfall);
- Replace dead or dying plant species with equivalent species and vigour; and
- Repair fencing as necessary.

HRSS P&C has committed \$2,000 funding annually to maintain the site, and have also committing to storing maintenance equipment on school grounds.

TREE MANAGEMENT

Trees are to be retained and protected unless tagged and nominated for removal, as per advice from BCC (May 2013)

BUSHFIRE HAZARD MANAGEMENT

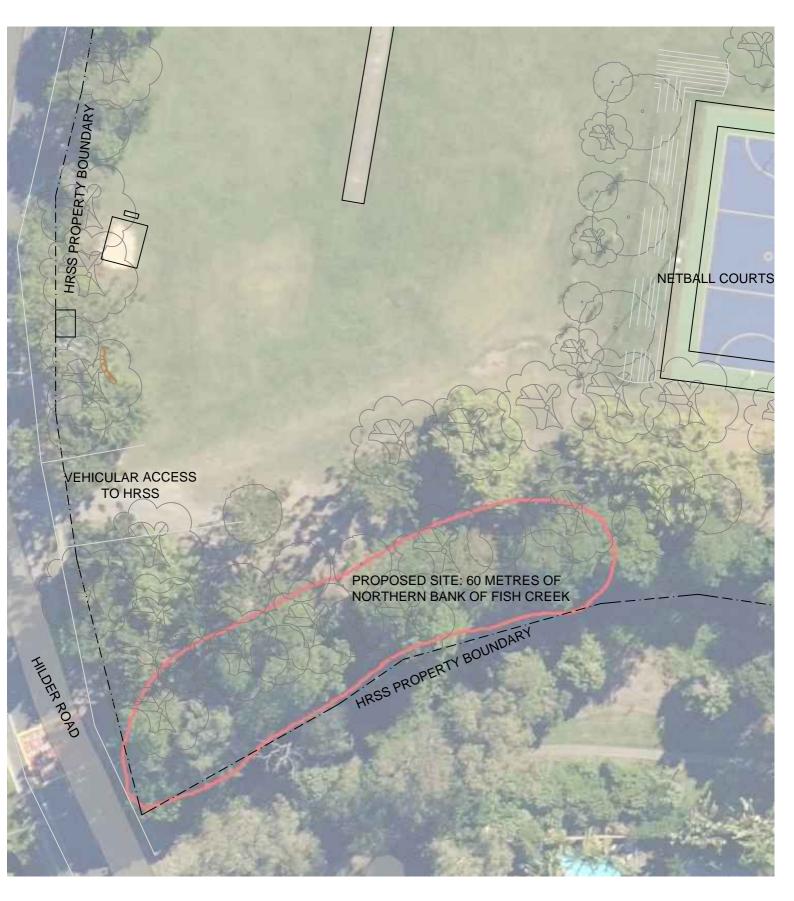
The environmental corridor is to be managed by the removal and/or control of nonendemic grass and weed growth, and management of low ground fuel levels to minimise the risk of damage from a localised bushfire event.

3.3 PERFORMANCE INDICATORS

Maintenance and monitoring of the areas is to continue for a minimum of 24 months. During this time the indicators outlined in Table ** must be monitored.

TABLE 8 – PERFORMANCE INDICATORS, MONITORING AND REPORTING REQUIREMENTS.

Criteria	Monitoring	Performance Indicators	Corrective Action and Reporting
Survival of	Every 6 weeks	95% planting at the end	Replace dead or dying
planting	during	of the maintenance	plants
	establishment, or	period.	
	after a significant		
	storm or rainfall		
	event		
Weed	Every 12 weeks	No Class 1 or 2 species	Remove weeds as soon as
occurrence	during	present. No weed	possible to avoid
	establishment	inhibiting the growth of	reinfestation
		vegetation. 95% of the	
		site shall be weed free,	
		and no significant	
		infestations of any	
		weeds shall be present.	
Fencing	During routine	No breaches	Repair fence to reduce
(during	plant surveys		access into site during plant
establishment)			establishment







APPENDIX A

Wildnet Search & Vegetation Mapping



Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All Type: All

Status: All

Records: All

Date: All

Latitude: 27.4372

Longitude: 152.9367

Distance: 1

Email: tmetcher@chenoweth.com.au

Date submitted: Sunday 26 May 2013 09:45:45 Date extracted: Sunday 26 May 2013 09:50:03

The number of records retrieved = 155

Disclaimer

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you may incur as a result of the information being inaccurate or incomplete in any way for any reason.

Kingdom	Class	Family	Scientific Name	Common Name	ı	Q	Α	Records
animals	birds	Accipitridae	Aviceda subcristata	Pacific baza		С		1
animals	birds	Accipitridae	Accipiter novaehollandiae	grey goshawk		NT		1
animals	birds	Anatidae	Biziura lobata	musk duck		С		1
animals	birds	Anatidae	Aythya australis	hardhead		C		1
animals	birds	Anatidae	Anas superciliosa	Pacific black duck		C		2
animals	birds	Anhingidae	Anhinga novaehollandiae	Australasian darter		С		2
animals	birds	Ardeidae	Ardea modesta	eastern great egret		Č		1
animals	birds	Ardeidae	Egretta novaehollandiae	white-faced heron		Č		1
animals	birds	Artamidae	Cracticus tibicen	Australian magpie		С		4
animals	birds	Artamidae	Strepera graculina	pied currawong		Č		1
animals	birds	Artamidae	Cracticus torquatus	grey butcherbird		Č		4
animals	birds	Burhinidae	Burhinus grallarius	bush stone-curlew		Č		2
animals	birds	Cacatuidae	Cacatua galerita	sulphur-crested cockatoo		Č		1
animals	birds	Campephagidae	Coracina novaehollandiae	black-faced cuckoo-shrike		Č		1
animals	birds	Campephagidae	Lalage leucomela	varied triller		Č		1
animals	birds	Campephagidae	Coracina tenuirostris	cicadabird		č		1
animals	birds	Charadriidae	Elseyornis melanops	black-fronted dotterel		č		1
animals	birds	Climacteridae	Cormobates leucophaea metastasis	white-throated treecreeper (southern)		Č		1
animals	birds	Columbidae	Geopelia striata	peaceful dove		č		1
animals	birds	Columbidae	Geopelia humeralis	bar-shouldered dove		Č		3
animals	birds	Columbidae	Macropygia amboinensis	brown cuckoo-dove		Č		1
animals	birds	Columbidae	Streptopelia chinensis	spotted dove	Υ	O		1
animals	birds	Columbidae	Leucosarcia picata	wonga pigeon	•	С		1
animals	birds	Columbidae	Chalcophaps indica	emerald dove		Č		1
animals	birds	Coraciidae	Eurystomus orientalis	dollarbird		Č		1
animals	birds	Corvidae	Corvus orru	Torresian crow		Č		1
animals	birds	Cuculidae	Cacomantis variolosus	brush cuckoo		Č		1
animals	birds	Cuculidae	Scythrops novaehollandiae	channel-billed cuckoo		Č		1
animals	birds	Cuculidae	Cuculus optatus	oriental cuckoo		Č		1
animals	birds	Cuculidae	Eudynamys orientalis	eastern koel		Č		2
animals	birds	Dicruridae	Dicrurus bracteatus	spangled drongo		Č		1
animals	birds	Halcyonidae	Dacelo novaeguineae	laughing kookaburra		Č		3
animals	birds	Halcyonidae	Todiramphus sanctus	sacred kingfisher		Č		1
animals	birds	Halcyonidae	Todiramphus macleayii	forest kingfisher		Č		1
animals	birds	Hirundinidae	Hirundo neoxena	welcome swallow		Č		1
animals	birds	Jacanidae	Irediparra gallinacea	comb-crested jacana		Č		2
animals	birds	Maluridae	Malurus lamberti	variegated fairy-wren		Č		1
animals	birds	Maluridae	Malurus melanocephalus	red-backed fairy-wren		C		2
animals	birds	Megapodiidae	Alectura lathami	Australian brush-turkey		Č		3
animals	birds	Meliphagidae	Meliphaga lewinii	Lewin's honeyeater		Č		3
				,		\sim		3
animals	birds	Meliphagidae Meliphagidae	Myzomela sanguinolenta	scarlet honeyeater		C		ا 2
animals	birds	Meliphagidae Meliphagidae	Caligavis chrysops	yellow-faced honeyeater noisy miner		C		3 3
animals	birds	Meliphagidae Meliphagidae	Manorina melanocephala			\sim		ى 1
animals	birds	Meliphagidae Meropidae	Myzomela erythrocephala	red-headed honeyeater		C C		1
animals	birds	Meropidae Menorobidae	Merops ornatus	rainbow bee-eater				1 4
animals	birds	Monarchidae	Myiagra rubecula	leaden flycatcher		С		1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
animals	birds	Monarchidae	Grallina cyanoleuca	magpie-lark		С		1
animals	birds	Oriolidae	Sphecotheres vieilloti	Australasian figbird		С		1
animals	birds	Oriolidae	Oriolus sagittatus	olive-backed oriole		С		1
animals	birds	Pachycephalidae	Pachycephala rufiventris	rufous whistler		C C		2
animals	birds	Pachycephalidae	Pachycephala pectoralis	golden whistler		С		1
animals	birds	Pachycephalidae	Colluricincla harmonica	grey shrike-thrush		С		2
animals	birds	Pachycephalidae	Colluricincla megarhyncha	little shrike-thrush		C		1
animals	birds	Pardalotidae	Pardalotus striatus	striated pardalote		С		2
animals	birds	Petroicidae	Eopsaltria australis	eastern yellow robin		С		2
animals	birds	Phalacrocoracidae	Microcarbo melanoleucos	little pied cormorant		C C		1
animals	birds	Phalacrocoracidae	Phalacrocorax sulcirostris	little black cormorant		С		1
animals	birds	Pittidae	Pitta versicolor	noisy pitta		С		1
animals	birds	Podargidae	Podargus strigoides	tawny frogmouth		C		1
animals	birds	Podicipedidae	Tachybaptus novaehollandiae	Australasian grebe		С		2
animals	birds	Psittacidae	Neophema pulchella	turquoise parrot		NT		2
animals	birds	Psittacidae	Trichoglossus haematodus moluccanus	rainbow lorikeet		C		3
animals	birds	Psittacidae	Platycercus elegans	crimson rosella		C		1
animals	birds	Psittacidae	Alisterus scapularis	Australian king-parrot		C		2
animals	birds	Psittacidae	Platycercus adscitus	pale-headed rosella		C		1
animals	birds	Psittacidae	Trichoglossus chlorolepidotus	scaly-breasted lorikeet		C		2
animals	birds	Psophodidae	Cinclosoma punctatum	spotted quail-thrush		C		2
animals	birds	Psophodidae	Psophodes olivaceus	eastern whipbird		C		3
animals	birds	Rallidae	Gallinula tenebrosa	dusky moorhen		CCCC		2
animals	birds	Rhipiduridae	Rhipidura albiscapa	grey fantail		C		2
animals	birds	Rhipiduridae	Rhipidura leucophrys	willie wagtail		C		1
animals	birds	Timaliidae	Zosterops lateralis	silvereye		C		1
animals	birds	Tytonidae	Tyto novaehollandiae novaehollandiae	masked owl (southern subspecies)		С		1
animals	bony fish	Ambassidae	Ambassis agassizii	Agassiz's glassfish				2
animals	bony fish	Anguillidae	Anguilla australis	southern shortfin eel				1
animals	bony fish	Anguillidae	Anguilla reinhardtii	longfin eel				1
animals	bony fish	Atherinidae	Craterocephalus stercusmuscarum	flyspecked hardyhead				2
animals	bony fish	Eleotridae	Hypseleotris galii	firetail gudgeon				2
animals	bony fish	Melanotaeniidae	Melanotaenia fluviatilis	Murray River rainbowfish	.,			1
animals	bony fish	Poeciliidae	Xiphophorus helleri	swordtail	Y			2
animals	bony fish	Poeciliidae	Gambusia holbrooki	mosquitofish	Υ			3
animals	bony fish	Retropinnidae	Retropinna semoni	Australian smelt		_		1
animals	mammals	Dasyuridae	Phascogale tapoatafa	brush-tailed phascogale		C		1/1
animals	mammals	Molossidae	Tadarida australis	white-striped freetail bat		C		1
animals	mammals	Ornithorhynchidae	Ornithorhynchus anatinus	platypus		C		1
animals	mammals	Peramelidae	Isoodon macrourus	northern brown bandicoot		C		1
animals	mammals	Phalangeridae	Trichosurus vulpecula	common brushtail possum		C		1/1
animals	mammals	Pseudocheiridae	Pseudocheirus peregrinus	common ringtail possum		С		1/1
animals	mammals	Pteropodidae	Pteropus alecto	black flying-fox		С		4
animals	mammals	Pteropodidae	Pteropus poliocephalus	grey-headed flying-fox		C C	V	9
animals	mammals	Vespertilionidae	Miniopterus schreibersii oceanensis	eastern bent-wing bat		C		1
animals	reptiles	Boidae	Antaresia maculosa	spotted python		С		1

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
animals	reptiles	Boidae	Morelia spilota	carpet python		С		6
animals	reptiles	Colubridae	Dendrelaphis punctulata	common tree snake		С		3
animals	reptiles	Elapidae	Acanthophis antarcticus	common death adder		NT		1
animals	reptiles	Pygopodidae	Lialis burtonis	Burton's legless lizard		С		1
animals	reptiles	Scincidae	Eroticoscincus graciloides			NT		1
animals	reptiles	Scincidae	Cyclodomorphus gerrardii	pink-tongued lizard		С		1
fungi	club fungi	Basidiomycota	Marasmius			С		1/1
fungi	sac fungi	Candelariaceae	Candelaria concolor			C		2/2
fungi	sac fungi	Graphidaceae	Graphis aperiens			С		1/1
fungi	sac fungi	Lecanoraceae	Lecanora arthothelinella			C		1/1
fungi	sac fungi	Lecanoraceae	Lecanora interjecta			С		1/1
fungi	sac fungi	Lecanoraceae	Lecanora helva			C C C		1/1
fungi	sac fungi	Lecideaceae	Lecidea russula			C		1/1
fungi	sac fungi	Parmeliaceae	Canoparmelia norsticticata			C		1/1
fungi	sac fungi	Parmeliaceae	Flavoparmelia rutidota			C		1/1
fungi	sac fungi	Parmeliaceae	Parmotrema tinctorum			C		4/4
fungi	sac fungi	Parmeliaceae	Parmotrema crinitum			C		1/1
fungi	sac fungi	Parmeliaceae	Canoparmelia texana			C C C		2/2
fungi	sac fungi	Parmeliaceae	Canoparmelia aptata			C		1/1
fungi	sac fungi	Parmeliaceae	Punctelia borreri			C		1/1
fungi	sac fungi	Pertusariaceae	Ochrolechia subpallescens			C		1/1
fungi	sac fungi	Pertusariaceae	Pertusaria leioplacella			C		1/1
fungi	sac fungi	Physciaceae	Pyxine subcinerea			C C C		1/1
fungi	sac fungi	Physciaceae	Dirinaria applanata			C		2/2
fungi	sac fungi	Physciaceae	Heterodermia speciosa			C		2/2
fungi	sac fungi	Physciaceae	Hyperphyscia pandani			C		1/1
fungi	sac fungi	Physciaceae	Dirinaria confluens			C		1/1
fungi	sac fungi	Physciaceae	Buellia dissa			С		1/1
fungi	sac fungi	Physciaceae	Dirinaria			С		1/1
fungi	sac fungi	Usneaceae	Usnea			C		1/1
plants	ferns	Nephrolepidaceae	Nephrolepis hirsutula		V	C		1/1
plants	higher dicots	Asteraceae	Bidens pilosa		Y Y			1/1
plants	higher dicots	Asteraceae	Carpesium cernuum		Ϋ́			1/1
plants	higher dicots	Cactaceae	Opuntia stricta		ĭ	0		1/1
plants	higher dicots	Casuarinaceae	Casuarina cunninghamiana subsp. cunninghamiana		Υ	С		1/1 1/1
plants	higher dicots	Euphorbiaceae Lamiaceae	Manihot grahamii Plectranthus verticillatus		Y			1/1
plants	higher dicots				· · · · · · · · · · · · · · · · · · ·			1/1
plants	higher dicots higher dicots	Malvaceae	Abutilon pictum Calliandra haematocephala		Y			1/1
plants plants	higher dicots	Mimosaceae Moraceae	Ficus rubiginosa forma glabrescens		I	С		1/1
	higher dicots	Moraceae	Ficus obliqua			C		1/1
plants plants	higher dicots	Myrtaceae	Rhodomyrtus psidioides	native guava		C		1/1
plants	higher dicots	Myrtaceae	Waterhousea floribunda	weeping lilly pilly		C		1/1
plants	higher dicots	Rubiaceae	Pavetta australiensis var. australiensis	weeping my pmy		C		1/1
plants	higher dicots	Rutaceae	Zanthoxylum brachyacanthum			Č		2/2
plants	higher dicots	Rutaceae	Murraya paniculata cv. Exotica		Υ	C		1/1
ριαιτιδ	riigitei dicots	เงนเลบซลซ	manaya pambulata ov. Exotica		I			1/ 1

Kingdom	Class	Family	Scientific Name	Common Name	[Q	Α	Records
plants	higher dicots	Solanaceae	Brugmansia x candida	Angel's trumper	Υ			1/1
plants	higher dicots	Urticaceae	Parietaria judaica	,	Υ			1/1
plants	higher dicots	Vitaceae	Cissus hypoglauca			С		1/1
plants	monocots	Araceae	Syngonium podophyllum		Υ			1/1
plants	monocots	Araceae	Syngonium			С		2/2
plants	monocots	Araceae	Monstera deliciosa		Υ			1/1
plants	monocots	Commelinaceae	Dichorisandra thyrsiflora		Υ			1/1
plants	monocots	Convallariaceae	Aspidistra elatior		Υ			1/1
plants	monocots	Cyperaceae	Fimbristylis dichotoma	common fringe-rush		С		1/1
plants	monocots	Hypoxidaceae	Molineria capitulata	G		С		1/1
plants	monocots	Poaceae	Urochloa decumbens		Υ			1/1
plants	monocots	Poaceae	Phyllostachys nigra		Υ			1/1
plants	monocots	Poaceae	Cenchrus purpureus		Υ			1/1
plants	mosses	Ditrichaceae	Eccremidium brisbanicum			С		1/1
plants	mosses	Ephemeraceae	Ephemerum fimbriatum			С		1/1
plants	mosses	Fissidentaceae	Fissidens			С		3/3
plants	mosses	Funariaceae	Physcomitrium			С		2/2

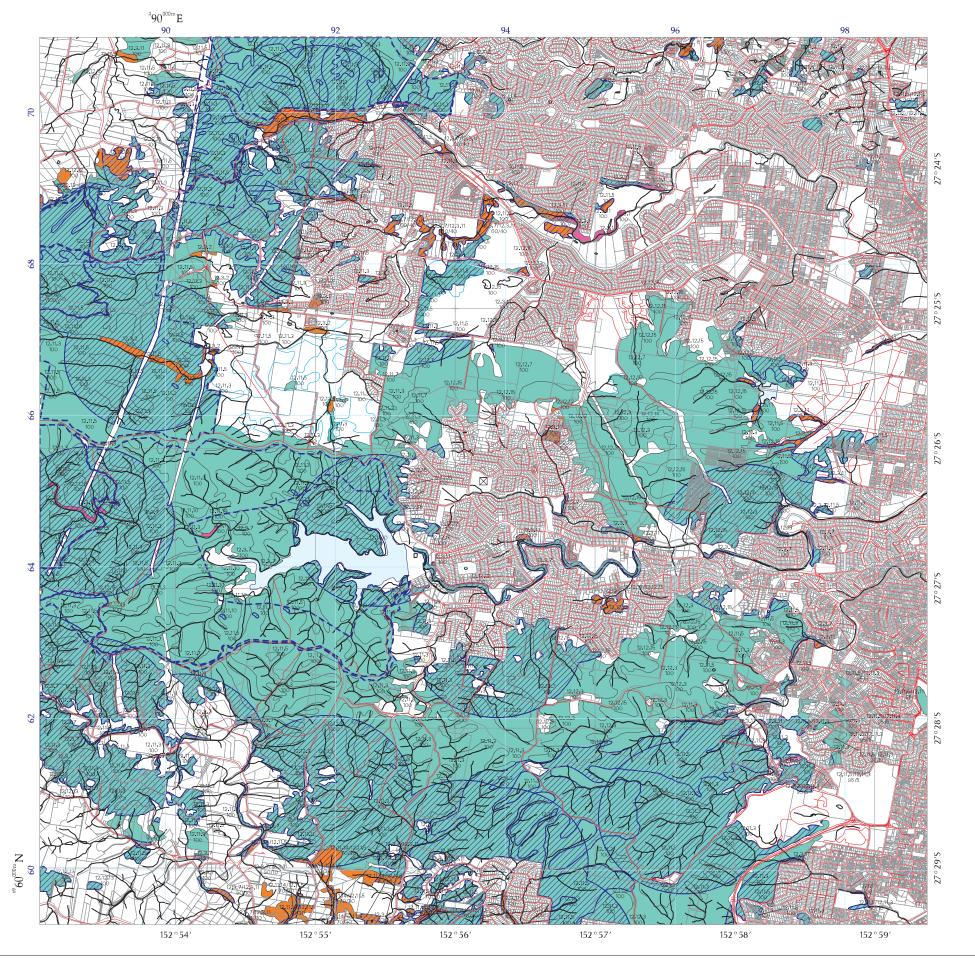
CODES

- I Y indicates that the taxon is introduced to Queensland and has naturalised.
- Q Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().
- A Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999.* The values of EPBC are Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Extinct in the Wild (XW) and Vulnerable (V).

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon.

This number is output as 999 if it equals or exceeds this value.



Vegetation Management Act Regional Ecosystem and Remnant Map-Version 6.1

Remnant vegetation containing endangered regional ecosystems

Remnant vegetation containing of concern regional ecosystems

Remnant vegetation that is a least concern regional ecosystem

Remnant vegetation under Section 20AH of the VMA

Non-remnant

Plantation Forest

Dam or Reservoir

Remnant Vegetation PMAV Category X area

Great Barrier Reef Wetlands

Vegetation Management Act Essential Habitat For further information on VMA Essential Habitat, please see the attached VMA Essential Habitat map.

Watercourse (Stream order shown as black number against stream where available)

Bioregion boundary

Roads

Pitney Bowes Software 2012

National Park, Conservation Area State Forest and other reserves

Cadastral line Property boundaries shown are provided as a locational aid only.

Towns

Coordinate entered \boxtimes

Based on 2006 Landsat TM imagery

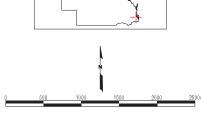
Requested By: TMETCHER@CHENOWETH.COM.AU Date: 28 May 13 Time: 11.33.25

Centered on Coordinate:

Latitude: -27.4372 Longitude: 152.9367 (decimal degrees) Bioregion: Southeast Queensland







A remnant map covers areas not covered by a regional ecosystem map.

Defined map areas are labelled with the regional ecosystem (RE) code along with the percentage breakdown if more than one RE occurs within the area. Detailed definitions of regional ecosystems are available from www.ehp.qld.gov.au/REDD. Defined map areas smaller than 5ha may not be labelled.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/-100 metres. The extent of remnant regional ecosystems as of 2006, depicted on this map is based on rectified 2006 Landsat TM imagery (supplied by the Statewide Landcover and Trees Study (SLATS), Queensland Government).

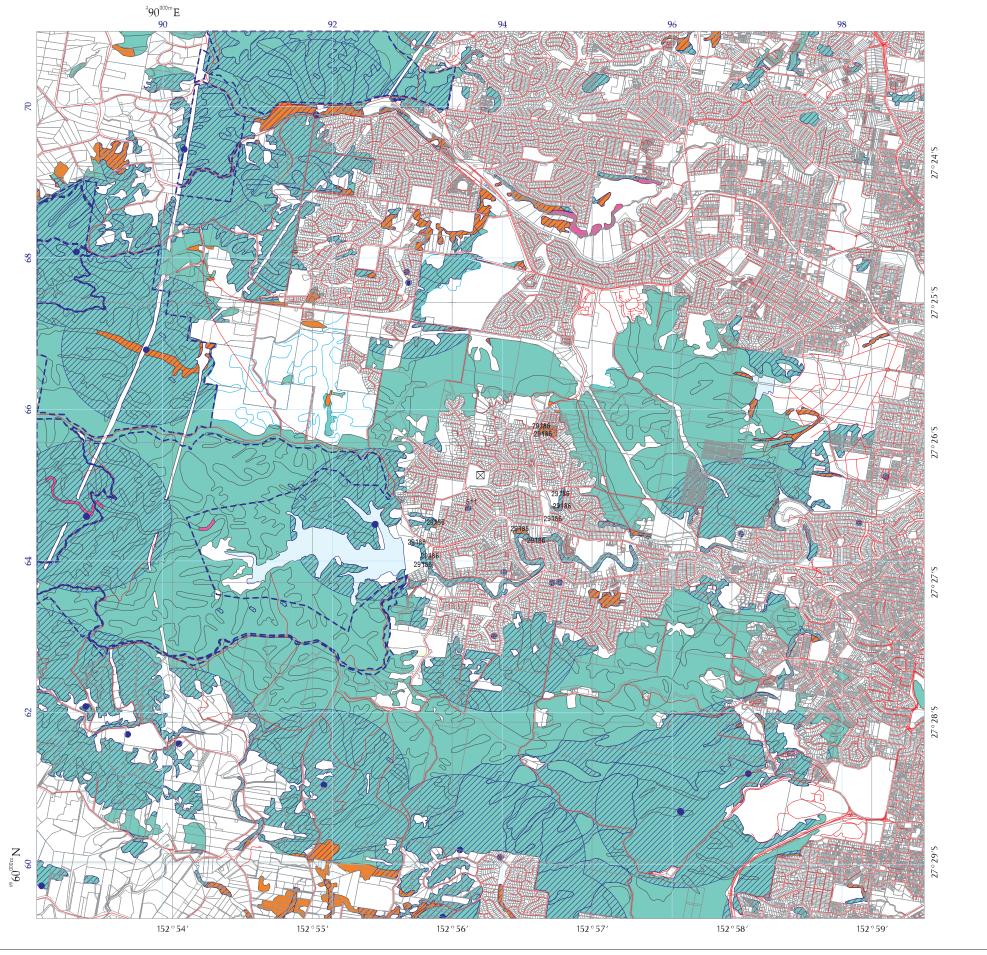
Some watercourse lines are derived from GeoScience Australia 1:250 000 mapping.

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incomplete in any way and for any reason.

All datasets are updated as they become available to provide the most current information as of the date shown on this map.

Additional information is required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.dnrm.qld.gov.au or contact the Department of Natural Resources and Mines.

Digital regional ecosystem data is available in shapefile format, for Lot on Plans from www.ehp.qld.gov.au/REDATA or from DNRM for larger



Vegetation Management Act Essential Habitat Map Version 3.1

Remnant vegetation containing endangered regional ecosystems

Remnant vegetation containing of concern regional ecosystems

> Remnant vegetation that is a least concern regional ecosystem

Remnant vegetation under Section 20AH of the VMA

Non-remnant

Plantation Forest

Dam or Reservoir

Remnant Vegetati PMAV Category X area

Vegetation Management Act Essential Habitat

Vegetation Management Act Essential Habitat Species Records

✓ Subject Lot

Roads

Pitney Bowes Software 2012

National Park, Conservation Area State Forest

Cadastral line Property boundaries shown are provided as a locational aid only.

Towns

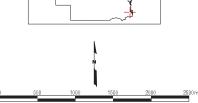
 \boxtimes Coordinate entered Requested By: TMETCHER@CHENOWETH.COM.AU Date: 28 May 13 Time: 11.33.33

Centered on Coordinate:

Latitude: -27.4372 Longitude: 152.9367 (decimal degrees)







Labels for the Vegetation Management Act Essential Habitat are centred on the subject lot (1.1km surrounding and including a Lot on Plan). Labels correlate to the label field in the attached essential habitat

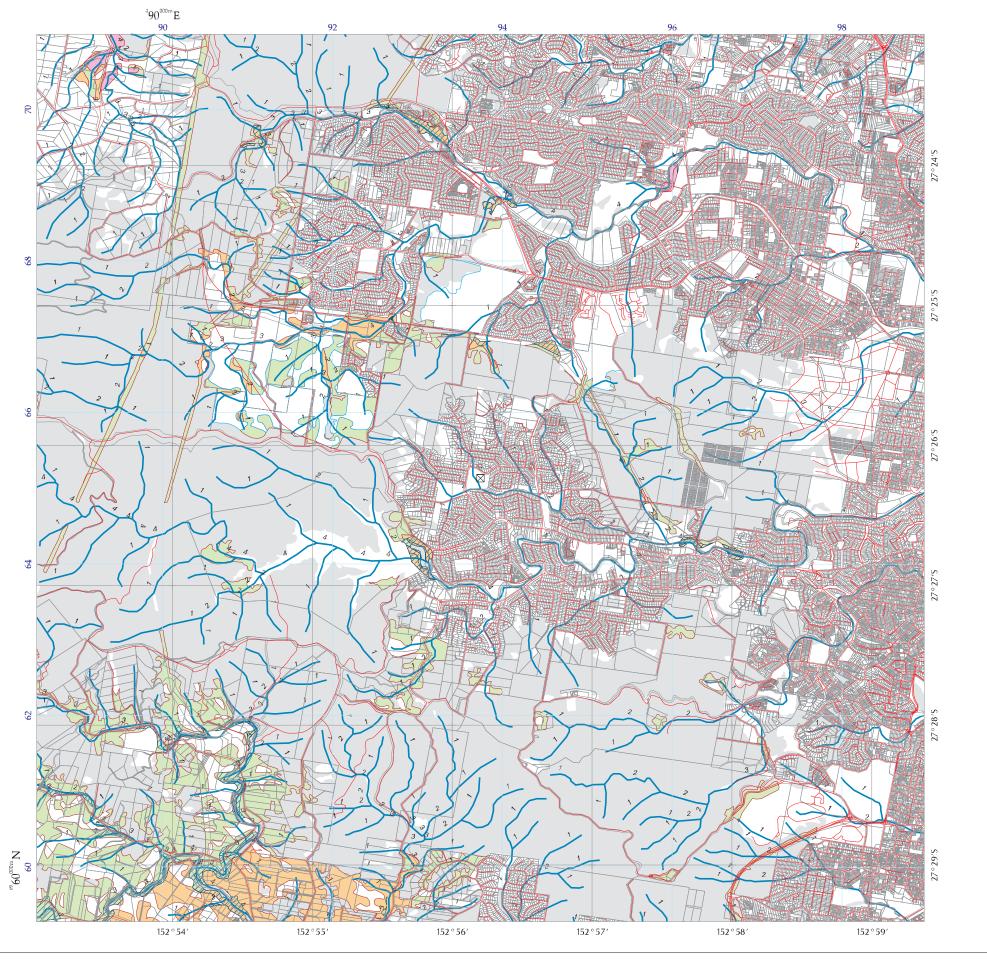
Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/-100 metres. The extent of remnant regional ecosystems as of 2006, depicted on this map is based on rectified 2006 Landsat TM imagery (supplied by SLATS Queensland Government). SLATS, Queensland Government).

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incomplete in any way and for any reason.

All datasets are updated as they become available to provide the most current information as of the date shown on this map.

Additional information is required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.dnrm.qld.gov.au or contact the Department of Natural Resources and Mines.

Digital regional ecosystem data is available in shapefile format, for Lot on Plans from www.ehp.qld.gov.au/REDATA or from DNRM for larger



REGROWTH VEGETATION MAP - Version 2.1

Vegetation Management Act Essential Regrowth Habitat with example label number

Great Barrier Reef Wetland Protection Area High value regrowth vegetation containing

Endangered regional ecosystems

High value regrowth vegetation containing

Of Concern regional ecosystems

High value regrowth vegetation that is a Least Concern regional ecosystem

Remnant Vegetation

(Refer to the Vegetation Management Act Regional Ecosystem and Remnant Map also available from the Department of Environment and Resource Management website for further information on these areas)

Non-remnant

PMAV Category X area

Regrowth watercourse (Stream order shown as black number against stream)

Other watercourse(Stream order shown as black number against stream where available)

Subject Lot

Roads

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Cadastral line Property boundaries shown are provided as a locational aid only.

Coordinate entered

Requested By: TMETCHER@CHENOWETH.COM.AU Date: 28 May 13 Time: 11.33.34

Centered on Coordinate:

Latitude: -27.4372 Longitude: 152.9367 (decimal degrees)

Labels for Vegetation Management Act Essential Regrowth Habitat are centred on the subject lot. Labels correlate to the label field in the attached essential regrowth habitat database.

The high value regrowth, regrowth watercourse, other watercourse, Great Barrier Reef wetland protection area and essential regrowth habitat data shown on this map are representations of the preliminary

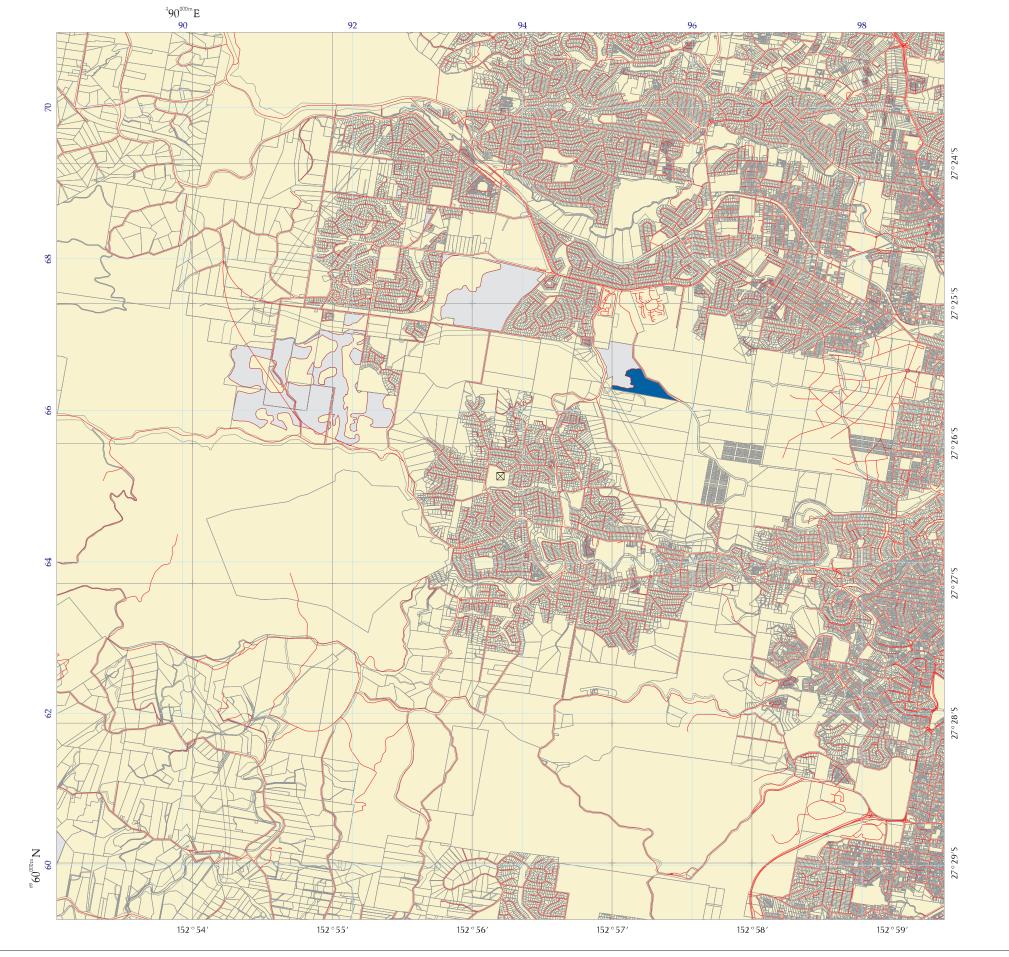
Some watercourse lines are derived from GeoScience Australia 1:250 000 mapping.

For further information go to the website: http://www.dnrm.qld.gov.au or contact Ve au or contact Vegetation Management, Department of Natural Resources and Mines.





Areas covered by a Property Map of Assessable Vegetation (PMAV) are represented on the map attached as Page 2 to this Regrowth Vegetation Map and provided with it.



Property Maps of Assessable Vegetation (PMAVs)

Requested By: TMETCHER@CHENOWETH.COM.AU Date: 28 May 13 Time: 11.33.38

Centered on Coordinate:

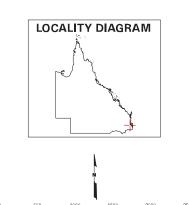
Latitude: -27.4372 Longitude: 152.9367 (decimal degrees)

The PMAV data shown on this map are a representation of the data used to create certified PMAVs. Variations may occur between PMAV boundaries and cadastral boundaries. PMAV data incorporates cadastral boundary data as at the time of certification of the PMAV. The cadastral boundaries shown on this map may have shifted relative to the PMAV boundaries as more accurate cadastral boundary data have become available.

All datasets are updated as they become available to provide the most current information as of the date shown on this map.

For further information go to the website: http://www.dnrm.qld.gov.au or contact Vegetation Management, Department of Natural resources and Mines





TownsCoordinate entered

Cadastral line

Subject Lot
Roads

Category A area Category B area

Category C area Category X area

Property Map of Assessable Vegetation Vegetation Category Area

Area that is subject to other PMAVs or, if no

map or regrowth vegetation map

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Property boundaries shown are provided as a locational aid only.

PMAV exists, a regional ecosystem map, remnant

Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)