

CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES

LANDSCAPING

C273

CONSTRUCTION SPECIFICATION

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Keeping the Capricorn Municipal Development Guidelines up-to-date

The Capricorn Municipal Development Guidelines are living documents which reflect progress of municipal works in the Capricorn Region. To maintain a high level of currency that reflects the current municipal environment, all guidelines are periodically reviewed with new editions published and the possibility of some editions to be removed. Between the publishing of these editions, amendments may be issued. It is important that readers assure themselves they are using current guideline, which should include any amendments which may have been published since the guideline was printed. A guideline will be deemed current at the date of development approval for construction works.

GENERAL

C273.01 SCOPE

1. The work to be executed under this Specification consists of:
 - (a) The vegetation of cut and fill batters, median areas, footpaths, verges, open drains and other areas within the site. Vegetation includes the initial surface preparation, topsoiling, fertilising, sowing of seed and may include surface protection works, hydroseeding, hydromulching and straw mulching.
 - (b) The supply of plants, planting at locations as shown on the Drawings, fertilising, mulching, staking, watering and maintenance of plants.

C273.02 REFERENCE DOCUMENTS

1. Documents referenced in this Specification are listed in full below whilst being cited in the text in the abbreviated form or code indicated.

***Documents
Standards
Test Methods***

(a) Council Specifications

- | | | |
|------|---|---------------------------------------|
| C211 | - | Control of Erosion and Sedimentation. |
| C213 | - | Earthworks. |

(b) Australian Standards

- | | | |
|---------|---|---|
| AS 1160 | - | Bitumen emulsion for construction and maintenance of pavements. |
| AS 2507 | - | The storage and handling of pesticides. |
| AS 4419 | - | Soils for landscaping and garden use. |
| AS 4454 | - | Composts, soil conditioners and mulches. |

VEGETATION OF SLOPES AND DRAINS

C273.03 EXECUTION AND TIMING OF WORK

1. In association with the work to be executed under this Specification, effective erosion and sedimentation control measures in accordance with the Specification for CONTROL OF EROSION AND SEDIMENTATION C211 shall be implemented.
2. The work to be executed under this Vegetation of Slopes and Drains includes the vegetation of cut and fill batters, footpaths, median areas, open drains and other areas within the site. Vegetation includes the initial surface preparation, topsoiling, fertilising and either sowing of seed or turfing as shown on the Drawings.
3. Exposed ground shall be vegetated before the area exceeds one hectare or lesser area in compliance with Local Government requirements.

***Contractor's
Responsibility***

Vegetation

***Exposed
Ground***

C273.04 MATERIALS**(a) Topsoil**

1. Existing topsoil stockpiled on site under the Specification for EARTHWORKS C213 shall be used and where imported topsoil is required it shall comply with AS 4419 and shall:-

Quality

- be of a friable, porous nature;
- be free of weeds and weed seeds, bulbs, corms and vegetable propagules;
- contain no refuse or materials toxic to plant growth;
- contain no stumps, roots, clay lumps or stones larger than 50mm in size;
- have an organic content of at least 3 per cent by mass;
- have a pH neither less than 5.5 nor more than 7.5;
- have a soluble salt content not exceeding 0.06 per cent by mass.

(b) Herbicide

1. Herbicide used shall be a glyphosate-based herbicide listed in Annexure C273A.

(c) Seed**Seed Type and Supplier**

1. All seed used shall be of the species and varieties listed in Annexure C273A and shall be sown at the application rates specified therein.

2. The native seed shall be delivered to the site in separate lots for each species and variety, clearly labelled to show species, variety and weight.

Lead Time for Native Seed

3. All seed must be accompanied by a "Certificate of Authenticity" which shall be furnished upon request at any stage of the work. Grass and clover seed shall be pre-packed commercially with an accompanying certificate of germination.

Certification

4. Seed shall not be delivered to site more than seven days before sowing is to occur. The seed shall be stored in clean, air tight containers and kept away from direct sunlight. It shall not be exposed to the elements at any stage during storage.

Storage**(d) Turf**

1. Turf shall consist of 25mm depth of dense, well rooted, vigorous grass growth with 25mm depth of topsoil. The type of grass turf to be used shall be selected from Annexure C273A and in accordance with the Drawings. Unless specified, Kikuyu grass shall not be used. Turf shall be free of weeds, soil pests and diseases. The turf shall be supplied as rolls in long lengths of uniform width, not less than 300mm, and shall be in sound unbroken condition.

(e) Fertiliser

1. Fertiliser shall be an organic type listed in Annexure C273A with Nitrogen: Phosphorus: Potassium (N:P:K) ratios of 8 : 3.6 : 2.

Type**(f) Vegetable Mulch**

1. Vegetable mulch used in hydromulching shall consist of straw, chaff, wood fibre, paper pulp or similar material all finely shredded to a maximum dimension of 10 mm. Meadow hay or weeds shall not be used and paper pulp if used shall not exceed 50 per cent by mass of the total mulch.

Composition

(g) Water

1. Water used shall be potable.

Quality**(h) Binder**

1. The binder used in hydromulching and strawmulching shall be Grade ASS, slow setting anionic bitumen emulsion, complying with AS 1160.

(i) Wetting Agent

1. The soil wetting agent added in hydromulching or hydroseeding shall be listed in Annexure C273A and applied at the application rate specified therein.

(j) Pesticide

1. Pesticide used shall be a liquid or powder listed in Annexure C273A. The storage and handling of pesticides shall be in accordance with AS 2507.

C273.05 VEGETATION OF SLOPES 3 TO 1 OR FLATTER**(a) Preparation of Surface**

1. Slopes shall be sprayed with herbicide applied at the rate specified in Annexure C273A to kill weed infestation. Sprayed areas shall remain undisturbed for two weeks.

Herbicide Treatment

2. The surface shall then be tined to a depth of 200 mm to produce a loose surface and all large stones, rubbish and other materials that may hinder germination shall be removed before topsoiling.

Preparation**(b) Topsoiling**

1. Topsoil shall be uniformly applied to provide an average compacted thickness of 50mm with a minimum compacted thickness of 30mm at any location. The topsoiled area shall be cultivated to a depth of 50mm to provide a roughened surface with soil lumps not exceeding 50mm dimension.

Application**(c) Incorporation of Pesticide**

1. Immediately before sowing, all grass and native seed shall be treated with pesticide. The pesticide shall be thoroughly mixed as a dry powder with the seed at the rate specified in Annexure C273A to the equivalent mass of seed to be spread on 1 hectare of the surface in accordance with Annexure C273A.

Mixing**(d) Sowing**

1. Sowing shall be carried out with an appropriate mechanical seeder. Where practicable, passes shall follow finished surface contours. Seed shall be sown at a depth of 5mm or shall be raked or harrowed to provide 5mm cover.

Seeder

2. Seed and fertiliser shall be evenly distributed over the areas to be sown at the rates specified in Annexure C273A. Fertiliser shall be applied concurrently with the seeding operation.

Sowing Rate

(e) Turfing

1. Turf shall be placed on the prepared topsoiled surface. Runs of turf shall butt hard against each other and be placed perpendicular to the direction of water flow. Turf seams shall then be top dressed with topsoil. **Placing**

2. Four to six weeks after placement, the turf shall be lightly top dressed with topsoil to correct any undulations or unevenness in the established turf. **Topdressing**

(f) Watering

1. The Contractor shall water areas to be sown to a moist condition and shall rewater areas to a moist condition without surface runoff on a daily basis for a minimum of 15 days after sowing, or as otherwise directed by the Superintendent, to promote and maintain growth.

C273.06 VEGETATION OF SLOPES STEEPER THAN 3 TO 1

(a) General

1. Where shown on the Drawings slopes shall be vegetated by one of the following methods: **Method**

- (i) Topsoiling and hydromulching;
- (ii) Topsoiling, hydroseeding and straw mulching;
- (iii) Hydroseeding.

(b) Preparation of Surface

1. Weeds shall be killed by spraying with herbicides applied at a rate specified in Annexure C237A to kill weed infestations. Sprayed areas shall remain undisturbed for two (2) weeks. **Herbicide Treatment**

2. No more than seven days before seeding all loose material shall be removed from fill batters and cut batters, which are not stepped, by dragging a heavy steel chain of minimum weight of 30 kilograms per metre of length or by other approved methods. **Preparation**

(c) Topsoiling

1. Where batters have been stepped, the steps shall be loosely filled with topsoil. Elsewhere, topsoil shall be uniformly applied to provide an average thickness of 50mm with a minimum compacted thickness of 30mm at any location. **Application**

(d) Hydromulching or Hydroseeding

1. The hydromulch or hydroseed shall comprise the materials shown in Table C273.06.1. The materials shall be applied at the application rates shown in Table C273.06.1. **Application Rate**

2. Dry surfaces shall be watered by a fine spray before the application of the hydromulch. **Watering**

3. During preparation of the hydromulch or hydroseed slurry, liquid form pesticide shall be added to the storage tank, to facilitate surface application, at a rate of 5 litres of pesticide to the equivalent volume of hydromulch or hydroseed slurry to be spread on 1 hectare of surface in accordance with Table C273.06.1. **Pesticide**

4. Storage tanks, containers and equipment to be used in hydromulching or hydroseeding of slopes shall be clean and free of contamination from previous operations.

Equipment

5. A slurry mixture shall be produced by addition of the specified materials in the tank and agitated to maintain a uniform consistency during application. It shall be applied uniformly over the whole surface.

Uniform Mix

6. Hydromulch or hydroseed shall not be applied under the following weather conditions at the site:

Weather Conditions

- when temperature is higher than 35°C
- when winds exceed 15 km/hr;
- where the surface is too wet or
- during rain periods or when rain appears imminent.

7. Application rates shall be in accordance with Table C273.06.1

Table C273.06.1 - Materials and Application Rates

Material	Application Rate per Hectare	
	Hydromulching	Hydroseeding
i) Vegetable Mulch (kg)	2,500	Nil
ii) Water (l)	35,000	20,000
iii) Binder (l)	700	Nil
iv) Fertiliser	See Annexure C273A	
v) Seed	See Annexure C273A	
vi) Wetting Agent (l)	35	20
vii) Pesticide (l)	5	5

(e) Straw Mulching

1. The mulch to be applied after hydroseeding shall comprise a matrix of straw and an anionic slow setting bitumen emulsion binder. Meadow hay shall not be used. The straw mulch shall be uniformly applied by a suitable blower unit at a rate of 250 bales (each of 20 kilograms) of straw per hectare of surface. The bitumen emulsion shall be incorporated as a spray into the air stream of the mulch blower at a rate of not less than 2,500 litres of bitumen emulsion per hectare of surface. The finished straw mat shall have a minimum thickness of 20 mm at any location.

Method

C273.07 VEGETATION OF OPEN DRAINS

(a) Preparation of Surface

1. Following excavation of open drains to the profile specified vegetation of the surface shall be carried out. Topsoil shall be spread to provide an average compacted thickness of 50 mm with a minimum compacted thickness of 30 mm at any location.

Profile and Topsoil

(b) Sowing

1. Before sowing, the surface shall be watered. Seed and fertiliser shall then be applied uniformly at the rates specified in Annexure C273A by one of the following procedures: **Procedure**

- (i) Mechanical sowing.
- (ii) Hydromulching or hydroseeding.
- (iii) By hand.

(c) Surface Protection

1. Where shown on the Drawings one of the following protective treatments shall be applied immediately to all or part of the sown surface. **Methods**

- (i) Spraying with Bitumen Emulsion

An anionic slow setting bitumen emulsion, conforming with Grade ASS of AS 1160, shall be sprayed over the surface at a rate of 1 litre of bitumen emulsion per square metre of surface. **Application Rate**

- (ii) Lining with Organic Fibre Mat

The channel surface shall be lined with an organic fibre mat listed in Annexure C273A. The runs of matting shall be laid along the direction of water flow. The matting shall be laid loosely on the soil surface and not stretched. **Laying**

The upstream end of the matting shall be slotted into a trench 150mm wide by 150mm deep and pinned to the base of the trench at 200mm centres. The trench shall be backfilled with soil and compacted by foot. **Anchorage**

The pins shall be `U' shaped, 4mm gauge wire, 50mm wide and 150mm long legs. **Pins**

Adjacent runs of matting shall be overlapped 100mm with the higher run lapped over the lower run. The matting shall be pinned along the sides of each run at 500mm centres and along the middle of each run at 1 m centres. End overlaps shall be 150mm wide with the higher run end lapped over the start of the lower run and pinned at 200mm centres. **Lapping**

- (iii) Turfing

Turf shall be as specified under Clause C273.04 (d). **Quality**

Runs of turf shall butt hard against each other and be placed perpendicular to the direction of water flow in the drain, and pinned into position at 500mm centres. **Placing**

Seams of turf shall be top dressed with topsoil. **Topdressing**

(d) Watering

1. The Contractor shall water areas to be sown to a moist condition and shall rewater areas to a moist condition without surface runoff on a daily basis for a minimum of 15 days after sowing, or as otherwise directed by the Superintendent, to promote and maintain growth.

LANDSCAPE PLANTING

C273.08 EXECUTION AND TIMING OF WORK

1. The work to be executed includes the ground preparation, the supply of plants, planting as shown on the Drawings, fertilising, mulching, staking, watering and maintenance of plants.

Extent of Work

C273.09 MATERIALS

(a) Topsoil

1. Topsoil shall comply with the requirements of Clause C273.04 (a).

(b) Herbicide

1. Herbicide shall comply with the requirements of Clause C273.04 (b).

(c) Fertiliser

1. Fertiliser shall be a slow-release type in pellet form, listed in Annexure C273A, with a nine months' release period and having Nitrogen: Phosphorus: Potassium (N:P:K) ratios of 6.3 : 1.8 : 2.8.

Quality

(d) Mulch

1. All mulches used for landscape planting shall comply with AS 4454 and the following requirements:

Quality

- (i) the material shall comprise hardwood chips,
 - (ii) fines shall not exceed 5 per cent by volume;
 - (iii) the average size of the woodchip shall be approximately 20 mm wide by 5 mm thick by 30 mm long and the maximum length of chip shall not exceed 50 mm; and
 - (iv) the material shall be free of soil, weeds, stones and other foreign material.
2. Composted organic mulch approved by Local Government may be used in lieu of woodchip mulch.

(e) Plant Material

1. All plants shall be obtained from a nursery located in an area having a similar climate to the site of the Works.

Source

Table C273.09.1 Plant List

	Applicable Plant List
Banana Shire	Refer to ANNEXURE C273.A
Central Highlands Regional Council	
Gladstone Regional Council	Refer to ANNEXURE C273.C
Isaac Regional Council	ANNEXURE C273.A and ANNEXURE C273.C
Livingstone Shire Council	Refer to ANNEXURE C273.A
Maranoa Regional Council	
Rockhampton Regional Council	

2. There shall be no substitution of any species without Local Government approval. All plant material shall be true to species and sizes. Plants shall be healthy, of good form, not soft or forced and with large robust root systems. They shall not be root bound and shall be free from disease and insect pests. All container soil mix shall contain between 20 per cent and 25 per cent clay by volume. Trees shall have a single leading shoot. For hardening off purposes, all plants shall be delivered to a site within the locality of the Subdivision at least four weeks before planting out. Plant root systems shall be maintained moist at all times with particular attention being paid to watering during the on-site period before and during planting. Plant stock shall be classified as indicated in Table C273.09.1, and planted in accordance with the Drawings.

Quality

Table C273.09.1 - Plant Stock

	Type or Stock				
	50mm Tube	Gro-Tube	Semi Advanced	Advanced Stock	Super Advanced
Plant Container: dia (mm)	50	75	150	200	300
depth (mm)	75	100	150	200	300
Plant Height (mm) (leaf & stem)	200 min 300 max	300 min 400 max	300 min 400 max	300 min 500 max	500 min 750 max
Planting Holes: side dia (mm)	200	200	300	400	600
depth (mm)	200	200	300	400	600
Number of Fertilizer Pellets	2	3	5	5	7

(f) Stakes

1. All stakes shall be 25mm square by 1,500mm long hardwood and sharpened at one end.

Size

C273.10 PLANTING

(a) Mass Planting in Mulched Bed

1. The area to be planted shall be sprayed with herbicide, at the rate specified in Annexure C273A to kill weed infestations. Sprayed areas shall remain undisturbed for two weeks.

Herbicide Treatment

2. The surface shall be ripped at 500mm centres to a depth of 300mm and the top 200mm of the planting bed broken up by cultivation to a maximum size of 50mm. Mulch, 100mm thick, shall be spread over the planting bed. After removal of the localised mulch, planting holes shall be excavated to the dimensions and depths as shown in Table C273.09.1 and the material removed.

Surface Preparation

3. The specified number of fertilizer pellets as shown in Table C273.09.1 shall be placed beside the root ball of each plant.

Fertilizer Pellets

4. The planting hole shall be backfilled with topsoil complying with Clause C273.04 (a) and compacted by foot up to surface level, care being taken to avoid mixing mulch with topsoil. A stake shall be driven 300mm deep and 200mm clear of each 'Advanced' and 'Super Advanced' size stock and the stock tied to it by a strip of 50mm wide hessian webbing.

Backfill and Staking

- | | |
|---|-------------------------------------|
| <p>5. Each backfilled hole shall receive 10 litres of water before the mulch is respread over the disturbed area. The mulch shall be left just clear of the plant stem.</p> | <p>Watering and Mulching</p> |
| <p>(b) Individual Planting</p> | |
| <p>1. A planting area 600mm dia. or square shall be loosened to a depth of 400mm. Planting holes shall be excavated to dimensions and depths as shown in Table C273.09.1 and the material spread evenly around each hole</p> | <p>Planting Holes</p> |
| <p>2. The specified number of fertiliser pellets, as shown in Table C273.09.1, shall be placed beside the root ball of each plant.</p> | <p>Fertilizer Pellets</p> |
| <p>3. The planting hole shall be backfilled with topsoil complying with Clause C273.04 (a) and compacted by foot up to surface level. A stake shall be driven 300mm deep and 200mm clear of each 'Advanced' and 'Super Advanced' size stock and the stock tied to it by a strip of 50mm wide hessian webbing.</p> | <p>Backfill and Staking</p> |
| <p>4. Each backfilled hole shall receive 10 litres of water.</p> | <p>Watering</p> |
| <p>5. Weed infestation for a distance of 800 mm surrounding each proposed planting shall be killed by spraying with a herbicide as specified in Clause C273.05 (a). All due care shall be taken to avoid damage caused by contact between herbicide and the plant by means of spray drift etc.</p> | <p>Herbicide Spray</p> |
| <p>6. Immediately after planting, mulch 100 mm thick, starting just clear of the plant stem, shall be spread over an area of 600 mm radius surrounding the plant.</p> | <p>Mulch</p> |

C273.11 CARE OF LANDSCAPE PLANTING

- | | |
|--|----------------------------------|
| <p>1. All plants shall be watered, from the time of planting, at the rate of 10 litres per plant every third day for the first twelve weeks.</p> | <p>Watering</p> |
| <p>2. Missing plants, dead plants and unhealthy plants shall be replaced by the Contractor. Replacement plants shall be of similar size and quality and of identical species and variety to the plant being replaced.</p> | <p>Replacement Plants</p> |
| <p>3. Weed and grass growth in mulched areas shall be killed by treatment with herbicide in accordance with the manufacturer's instructions at monthly intervals during the construction period and contract maintenance period. Contact of the herbicide with the new plants shall be avoided and any damage repaired or damaged plant material replaced.</p> | <p>Weed Control</p> |

LIMITS AND TOLERANCES

C273.12 SUMMARY OF LIMITS AND TOLERANCES

1. The limits and tolerances applicable to the various clauses in this Specification are summarised in Table C273.12.1 below.

Item	Activity	Limits/Tolerances	Spec Clause
1.	Topsoil		
	a) Organic Content	>3% by mass	C273.04a
	b) pH	>5.5 <7.5	C273.04a
	c) Soluble Salt	<0.06% by mass	C273.04a
2.	Turf	Widths >300mm.	C273.04d
3.	Vegetable Mulch		
	a) Material	maximum size <10mm	C273.04f
	b) Paper Pulp	<50% by mass of total mulch	C273.04f
4.	Topsoiling	Minimum compacted thickness at any location of 30mm	C273.05b C273.06c C273.07a
5.	Straw Mulching		
	a) Straw Mat	Finished thickness >20mm.	C273.06e
6.	Landscape Planting		
	a) Temperature	Planting not to be undertaken when temperatures >35°C or <10°C.	C273.08
7.	Mulch		
	a) Fines	Shall not exceed 5% by volume.	C273.09d
	b) Woodchip	Maximum size <50mm.	C273.09d
8.	Plant Material		
	a) Container Soil Mix	Contain >20% <25% by volume of clay.	C273.09e

Table C273.12.1 - Summary of Limits and Tolerances

ANNEXURE

C273A LANDSCAPING MATERIALS

MATERIAL	TYPE	MINIMUM APPLICATION RATE
1. HERBICIDE *	'Roundup'	9 litres/200 litres water/ha
2. SEED		
a) Grass	Rye Corn (April-August) or Japanese Millet (September-March) Hulled Couch Red Clover (Inoculated) White Clover (Inoculated) "Elka" Perennial Rye	60 kg/ha 60 kg/ha 5 kg/ha 5 kg/ha 5 kg/ha 5 kg/ha
(b) Native	Acacia dealbata Acacia buxifolia Acacia decurrens Acacia pravissima Leptospermum lanigerum Hardenbergia violacea Kennedia prostrata Acacia implexa Banksia marginata Bursaria spinosa Callistemon pallidus Dodonaea viscosa	4 kg/ha 1 kg/ha 1 kg/ha 1 kg/ha 1 kg/ha 500 g/ha 500 g/ha 200 g/ha 200 g/ha 200 g/ha 200 g/ha 200 g/ha
3. TURF GRASS		
(a) Medians	Couch	Refer to Drawings
(b) Verges/Footpaths	Buffalo	"
(c) Other Areas	Couch	"
4. FERTILISER *		
(a) Vegetation of Slopes/Drains	Dynamic Lifter 'Nitro'	1000 kg/ha
(b) Landscape Planting	'Kokei' pellets	Refer Table C273.09.1
5. WETTING AGENT *	'Aquasoil'	1 litre/1000 litres of mix water
6. PESTICIDE *		
(a) Liquid	Approved Pesticide	5 litres
(b) Powder	Approved Pesticide	10 kg
7. ORGANIC FIBRE MAT *	'Sta-firma' (light grade)	-

* Material shall be as listed or equivalent as approved by Local Government.

C273B QUALITY CONTROL AND TESTING

(Specifications C220, C221, C222, C223, C224)

ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	TEST METHOD
MANDATORY TESTING				
Nil				
AUDIT TESTING – IF ORDERED BY COUNCIL				
Seed	Certification of Authenticity for the prescribed Mix	1 contract	Certification for each production batch delivered	
Imported Topsoil	Material Quality - pH - Organic Content - Soluble Salt Content	10,000m ² 10,000m ² 10,000m ²	1 per 500m ³ 1 per 500m ³ 1 per 500m ³	AS4419
Mulch for Planting	Material Quality	1 contract	1 contract	AS4454

C273C GLADSTONE REGIONAL COUNCIL PLANT LISTS

Australian Plants			Plant Features				Requirements						Suitability					Flower			
HABIT	PLANT NAME	COMMON NAME	Dimension Height & Spread	Fast Growth Range	Provides Shade	Attracts Birds	Attracts Butterflies	Shade	Full Sun	Exposed	Drought Resistant	Gravelly Soil	Loam /Clay Soil	Garden	Hedge	Coastal	Indoor	Colour	Scented	Edible Fruit	
SHRUBS	Baeckea Mt Tozer		1.5 m x 2m					●	●	●	●	●	●	●		●		White			
	Callistemon Species	Bottle Brush	Varies	●		●	●		●	●	●	●	●	●	●	●		Cream Red Purple			
	Evodiella muelleri	Little Evodia	6 m x 3 m	●		●	●	●	●				●	●				Pink			
	Graptophyllum excelsum	Scarlet Fushia	5m x 2m					●	●				●	●	●		●	Red			
	Leptospermum Cardwell																				
	Leptospermum Cardwell Pink																				
	Melaleuca Snowstorm		2m x 1.5m			●			●	●	●	●	●	●	●	●		White	●		
	Pandorea Southern Belle																				
	Pavetta australiensis	Snow Cloud	4m x 2.5m	●		●	●	●	●				●	●				●	White		
	Syzygium Aussie Gem																				
	Syzygium Cascade																				
	Syzygium Compact																				
	Syzygium Elegance																				
	Syzygium Tiny Trev																				
	Syzygium Weeping Gem																				
Syzygium wilsonii	Powder Puff	3m x 2m	●		●	●	●	●	●				●	●	●		●	Red		●	
Xanthostemon chrysanthus	Golden Penda	6m x 3m	●		●	●	●	●				●	●	●	●	●	●	Yellow			
TREES	Barklya syringifolia	Crown of Gold	10m x 5m	●	●	●	●		●	●	●	●	●	●		●		Yellow			
	Buckinghamia celsissima	Ivory Curl	10m x 4m		●	●	●		●	●	●	●	●	●		●		White	●		
	Cassia brewsteri	Leichhardt Bean	10m x 5m	●	●			●	●			●	●			●		Yellow /Orange			
	Cassia tomentella																				
	Castanopermum australe	Black Bean	12m x 8m		●	●		●	●				●	●				Yellow /Orange			
	Corymbia ptychocarpa																				
	Elaeocarpus obovatus	Blueberry Ash	12m x 8m	●	●	●			●			●	●	●		●		White	●		
	Eucalyptus ptychocarpa	Swamp Bloodwood	8m x 5m	●	●	●	●	●	●	●	●	●	●	●	●		●		Red /White		
	Hibiscus insularis	Philip Island Hibiscus																			

Australian Plants			Plant Features				Requirements						Suitability					Flower		
HABIT	PLANT NAME	COMMON NAME	Dimension Height & Spread	Fast Growth Rate	Provides Shade	Attracts Birds	Attracts Butterflies	Shade	Full Sun	Exposed	Drought Resistant	Gravelly Soil	Loam /Clay Soil	Garden	Hedge	Coastal	Indoor	Colour	Scented	Edible Fruit
PALMS	Melaleuca decora	Fine Leaf Paperbark	10m x 7m	●	●	●	●		●	●	●	●	●	●		●		Cream	●	
	Syzygium Aussie Southern	Brush Cherry																		
	Syzygium australe Southern form	Southern Lilly Pilly	8m x 5m	●	●	●	●	●	●			●	●	●				White		
	Syzygium fibrosum	Fibrous Satinash	8m x 4m	●v	●	●	●	●	●				●	●				Pale Yellow		
	Syzygium Weeping Gem																			
	Archontophoenix cunninghamiana	Bangalow	20m single			●		●	●	●			●	●				Red Seed		
	Arenga australasica		10m clump					●	●	●			●	●		●	●	Black Seed		
	Carpentaria acuminata	Carpentaria Palm	16m single	●		●			●	●		●	●	●		●		Red Seed		
	Livistona species		Varies	●					●	●	●		●	●		●		Black Seed		
	Ptychosperma elegans	Solitaire Palm	10m single	●		●		●	●	●	●	●	●	●		●	●	Red Seed		
	Ptychosperma macarthurii	MacArthur Palm	6m clump	●		●		●	●			●	●	●		●	●	Red Seed		
Wodyetia bifurcata	Foxtail Palm	12m single	●					●	●	●	●	●	●		●	●	Red Seed			

Port Curtis Plants			Plant Features				Requirements						Suitability					Flower		
HABIT	PLANT NAME	COMMON NAME	Dimension Height & Spread	Fast Growth Rate	Provides Shade	Attracts Birds	Attracts Butterflies	Shade	Full Sun	Exposed	Drought Resistant	Gravelly Soil	Loam/Clay Soil	Garden	Hedge	Coastal	Indoor	Colour	Scented	Edible Fruit
	Abelmoschus moschatus	Creeping Hibiscus																Pinky Maroon		
	Acacia holosericea	Soap Bush	3m															Yellow Rod Shape		
	Adenanthera pavonia	Red Sandalwood	15m															Creamy Yellow		
	Aidia racemosa		5m															Creamy		
	Alchornia thozetiana		2m															Insignificant		
T	Alectryon subdentatus	Hard Alectryon																		
T	Alectryon tomentosus	Hairy Alectryon																		
	Alphitonia excelsa	Red Ash	25m															Small Creamy		
	Auranticarpa rhombifolia	Holly Wood																Creamy clusters		
	Backhousia citridoria	Lemon Myrtle	6m															Creamy clusters		
	Brachychiton australis	Broad Leafed Bottle Tree	7m															Creamy bells		
	Brachychiton bidwillii	Little Kurrajong	3m															Deep pink to red		
	Brachychiton rupestris	Bottle Tree	20m																	
	Breynia oblongifolia	Native Coffee Bush	1.5m															Creamy Green		
	Callistemon comboynensis	Cliff Bottle Brush	4m															Dull Red		
	Carissa ovata	Currant Bush	3m															White		
	Cassia brewsterii	Leichardt bean	10m x 5m															Orange/Yellow		
	Citrus australis	Australian Lime	5m															Creamy white		
	Clausena brevistyla		7m															Cream		
	Cordyline manners suttoniae		4m															White sprays		
	Cordyline sp: Cordyline stricta	Narrow Leaved Palm Lily	3m															Purple		
	Cupaniopsis anacardiodes	Tuckeroo																		
	Cupaniopsis shrileyana		3m															Cream bunch		
	Dianella caerulea	Blue Flax Lily	0.5m															Blue star shape		
	Diospyrus geminata	Ebony	5m															White		
	Ellatostachys xylocarpa	White Tamarind																		
	Enneapogon lindleyanus	Native Grass																		

Port Curtis Plants			Plant Features				Requirements						Suitability				Flower			
HABIT	PLANT NAME	COMMON NAME	Dimension Height & Spread	Fast Growth Rate	Provides Shade	Attracts Birds	Attracts Butterflies	Shade	Full Sun	Exposed	Drought Resistant	Gravelly Soil	Loam/Clay Soil	Garden	Hedge	Coastal	Indoor	Colour	Scented	Edible Fruit
	Eugenia	Cedar Bay Cherry	4m															White		
	Euroschinus falcata	Ribbon Wood																		
	Flindersia australis	Crows Ash																		
	Glycomis trifoliata		5m															Insignificant		
	Graptophyllum excelsum	Scarlet Fuchsia	3m															Red		
	Graptophyllum ilicifolium	Holly Fuchsia	2.5m															Pinky Red		
	Graptophyllum thorogoodii	Native Fuschia																		
	Harpulia pendula	Tulipwood	10m															Greeny /Yellow		
	Jagera pseudorhus	Foambark																		
	Jasminum didymium	Three Leafed Jasmine	Vine															White		
	Ligustrum australianum	Native Privet																Cream		
	Mackinlaya macrosciadea		3m															Green		
	Mallotus claoxyloides	Smell of the Bush	6m															Cream		
	Mallotus discolor	Yellow ro White Kamala	15m															Insignificant		
	Mallotus philippensis	Red Kamala	18m															Insignificant		
	Melaleuca thymifolia																			
	Melaleuca viridifolia	Paperbark																		
	Micromelum minutum	Cluster Berry																White		
	Murraya ovalifoliolata	Native Murraya	2m															White		
	Orthosiphon aristatis	Cats Whiskers	1m															White /Pale Blue		
	Pittosporum revolutum	Rough Fruited Pittosporum	3m															Yellow		
	Pleigynium	Burdekin Plum	15m																	
	Plumbago zeylanica	Native Plumbago	1m															Blue star		
	Sterculia quadrifida	Peanut Tree	6-15m															Dull Yellow		
	Syzygium	Magenta Lilly Pilly																		

Exotic Plants			Plant Features				Requirements						Suitability					Flower		
HABIT	PLANT NAME	COMMON NAME	Dimension Height & Spread	Fast Growth Rate	Provides Shade	Attracts Birds	Attracts Butterflies	Shade	Full Sun	Exposed	Drought Resistant	Gravelly Soil	Loam /Clay Soil	Garden	Hedge	Coastal	Indoor	Colour	Scented	Edible Fruit
SHRUBS	Allamanda nerifolia	Bush Allamanda	2m x 3m	●				●	●			●	●	●				Yellow		
	Brunfelsia latifolia	Yesterday Today & Tomorrow	2m x 1m						●		●	●	●	●	●	●		White /Mauve	●	
	Duranta species	Sky Flower	3m x 2m	●				●	●				●	●		●		Pink / Purple		
	Ervatamia coronaria	Mock Gardenia	2.5m x 2m	●				●	●				●	●	●			White		
	Euphorbia leucocephala	Snow Flake	2m x 1.5	●					●		●	●	●	●				White		
	Metrosideros thomasi	New Zealand Christmas Tree	4m x 2.5m	●		●			●	●	●	●	●	●	●	●		Red		
	Murraya paniculata	Mock Orange	3m x 2m			●		●	●		●	●	●	●	●		●	White	●	
	Tecoma smithii	Yellow Bells	4m x 2.5m	●				●	●				●	●	●			Yellow		
	Tibouchina Alstonville		2m x 1.5m	●				●	●				●	●	●			Purple		
TREES	Cassia javanica	Java Shower	8m x 4m	●	●				●		●	●	●	●		●		Pink	●	
	Delonix regia	Poinciana	13m x 13m	●	●	●		●	●	●	●	●	●	●		●		Red		
	Michelia champaca	Golden Champaca	12m x 6m	●				●	●				●	●				Yellow	●	
	Peltophorum pterocarpum	Yellow Poinciana	12m x 6m	●	●				●	●	●	●	●	●				Yellow		
	Pterocarpus indicus var pendula	Weeping Padauk	10m x 10m	●	●				●				●	●		●		Yellow		
	Samanea saman	Rain Tree	15m x 12m	●	●	●			●	●		●	●	●				Pink		
	Tipuana tipu	Tipu Tree	15m x 10m	●	●				●	●	●	●	●	●		●		Yellow		
	Caryota mitis	Fishtail Palm	6m clump					●	●	●	●		●	●		●	●	Black Seed		
	Chrysalidocarpus lucubensis	Lucubensis Palm	10m single	●					●				●	●		●		Yellow Seed		
PALMS	Chrysalidocarpus lutescens	Golden Cane Palm	6m clump	●		●			●	●	●		●	●	●	●	●	Black Seed		
	Dictyosperma album	Princess Palm	8m single			●		●	●	●	●	●	●	●		●	●	Black Seed		
	Hyophorbe verschaffeltii	Spindle Palm	6m single	●				●	●	●			●	●		●		Red Seed		
	Neodypsis dacaryi	Triangle Palm	5m single	●					●	●			●	●				Yellow Seed		
	Phoenix roebelenii	Dwarf Date Palm	3m single			●			●	●	●	●	●	●		●	●	Black Seed		
	Veitchia joannis	Christmas Palm	15m single						●	●	●	●	●	●		●		Red Seed		

GLADSTONE CITY COUNCIL STREET AND LANDSCAPE PLANT LIST

FOOTPATH TREES	
BOTANICAL NAME	COMMON NAME
Alectryon subdentatus	Hard alectryon
Alectryon tomentosus	Hairy alectryon
Backhousia citriodora	Lemon scented myrtle
Barklya syringifolia	Crown of gold
Buckinghamia celsissima	Ivory curl
Callistemon Dawson River Weeper	
Callistemon Eureka	
Callistemon salignus	White Bottlebrush
Cassia brewsteri	Brewsters cassia/Leichardt Bean
Cassia queenslandica	Yellow Shower
Cassia tomentella	Velvet cassia
Corymbia ptychocarpa	Swamp bloodwood
Cupaniopsis anacardiodes	Tuckaroo
Elaeocarpus obovatus	Hard quandong/Blueberry Ash
Elattostachys xylocarpa	White tamarind
Euroschinus falcata	Ribbon wood
Flindersia australis	Crows ash
Harpullia pendula	Tulip wood
Jaegera pseudorhus	Foam bark
Melaleuca viridiflora (Burgundy Flower)	Paper bark
Syzygium Aussie Southern	Brush cherry
Syzygium leuhmanii	Weeping lilly pilly
Syzygium Weeping Gem	
Xanthostemon crysanthus	Golden penda
LANDSCAPE TREES	
Acmena smithii	Lilly pilly
Alectryon subdentatus	Hard alectryon
Alectryon tomentosus	Hairy alectryon
Argyrodendron trifoliatum	White booyong
Arytera divericata	Coogera
Backhousia citriodora	Lemon scented myrtle
Barklya syringifolia	Crown of gold
Brachychiton acerifolius	Flame tree
Buckinghamia celsissima	Ivory curl
Callistemon Dawson River Weeper	
Callistemon Eureka	
Callistemon salignus	White Bottlebrush
Cassia queenslandica	Yellow Shower
Cassia brewsteri	Brewsters cassia
Cassia tomentella	Velvet cassia
Corymbia ptychocarpa	Swamp bloodwood
Cupaniopsis anacardiodes	Tuckaroo

Elaeocarpus emundii	Emundi quandong
Elaeocarpus kirtonii	White quandong
Elaeocarpus obovatus	Hard quandong
Elattostachys xylocarpa	White tamarind
Euroschinus falcata	Ribbonwood
Flindersia australis	Crows ash
Grevillea baileyana	Bailey's Silky Oak
Grevillea hilliiana	White yiel-yiel
Harpullia pendula	Tulip wood
Hymenosporum flavum	Native frangipani
Jaegera pseudorhus	Foam bark
Melaleuca viridiflora (Burgundy Flower)	Paper bark
Mimusops elengi	Coondoo
Podocarpus elatus	Brown pine
Rhodespera rhodantha	Deep yellow wood
Syzygium Aussie Southern	Brush cherry
Syzygium australe (Southern Form)	Southern Lilly Pilly
Syzygium fibrosum	Fibrous Satinash
Syzygium leuhmanii	Riberry
Syzygium tiernyanum	Creek Satinash
Syzygium Weeping Gem	
Terminalia arenicola	Brown Damson
Terminalia sericocarpa	Bandicoot
Waterhousia floribunda	Weeping lilly pilly
Xanthostemon cyrsanthus	Golden penda
LANDSCAPE SHRUBS	
Acacia decora	Pretty Wattle
Breynia oblongifolia	Native Coffee Bush
Callistemon comboyensis	Cliff Bottlebrush
Carissa ovata	Currant Bush
Grevillea banksii	Red Silky Oak
Graptophyllum excelsum	Scarlet fuchsia
Graptophyllum ilicifolium	Holly fuchsia
Graptophyllum thorogoodii	Native fuchsia
Hibiscus insularis	Phillip island hibiscus
Jasminum didymium	Native jasmin
Leptospermum Cardwell	
Leptospermum Cardwell Pink	
Melaleuca thymifolia	
Metrosideros thomasi*	New Zealand Christmas Tree
Pandorea Southern Belle	Wonga vine
Pavetta australiensis	Pavetta/Snow Cloud
Syzygium Aussie Gem	
Syzygium Cascade	
Syzygium compact	
Syzygium Elegance	

