

PORT PHILLIP CITY COUNCIL

ELECTRIC LINE CLEARANCE
MANAGEMENT PLAN

2018-2019



Authorised by: Fiona Blair, General Manager – Infrastructure and Amenity

Authorisation date: 29/3/2018

Reference: TRIM 62/01/346 **Version:** 4 (Revision Date: 12/12/18)

Contents

Regulation 9(2) – Preparation of Management Plan.....	4
Regulation 9(3) – Preparation of Management Plan.....	4
(a) Name, address and telephone number of the responsible person.....	4
(b) Individual responsible for the preparation of the management plan.....	4
(c) Persons responsible for carrying out the management plan.....	5
(d) The telephone number to contact in an emergency.....	5
(e) The objectives of the plan	5
(f) The land to which the management plan applies.....	5
(g) The location of important vegetation	6
(h) The means to identify a tree specified in paragraph (g):.....	7
(i) The management procedures to ensure compliance with the Code	7
(j) The procedures adopted if not practicable to comply with AS4373	12
(k) A description of each alternative compliance mechanism	13
(l) Details of each approval for an alternative compliance mechanism	13
(m) Measures to assess the performance of the responsible person.....	13
(n) Audit processes	15
(o) Qualifications and experience	17
(p) Notification and consultation procedures.....	18
(q) Dispute resolution procedures.....	18
Regulation 9(4) – Sag and Sway.....	20
Regulation 10 – Obligations relating to management plan	20
Regulation 11 - Exemptions	20
SCHEDULE 1 – CODE OF PRACTICE FOR ELECTRIC LINE CLEARANCE	21
PART 2 – CLEARANCE RESPONSIBILITIES	21
DIVISION 1 – ROLES OF RESPONSIBLE PERSONS	21
DIVISION 2 – MANNER OF CUTTING AND REMOVING TREES	25
DIVISION 3 – NOTIFICATION, CONSULTATION AND DISPUTE RESOLUTION	27
DIVISION 4 – ADDITIONAL DUTIES OF RESPONSIBLE PERSONS	29
PART 3 – MINIMUM CLEARANCE SPACES	30
DIVISION 2 – ALTERNATIVE COMPLIANCE MECHANISMS	30
Appendix 1 – City of Port Phillip zoned areas of pruning	31
Appendix 2 – Scheduled inspection and pruning program.....	32
Appendix 3 – Graphs and diagrams of applicable distances	33
Appendix 4 – Example of tree inventory system data	38
Appendix 5 – List of Council Heritage Trees	39

The following sections are in accordance with Regulation 9 (Preparation of Management Plan) of the Electricity Safety (Electric Line Clearance) Regulations 2015.

Regulation 9(2) – Preparation of Management Plan

Before 31 March in each year, a responsible person must ensure that a management plan relating to compliance with the Code for the next financial year is prepared

In early March each year Council's Governance Department sends a checklist regarding the preparation of its Electric Line Clearance Management Plan (ELCMP) for the next financial year to the Manager of Open Space and Recreation. The checklist outlines the completion due date of 31 March, as required by the Electricity Safety (Electric Line Clearance) Regulations 2015.

The ELCMP is prepared by Council officers and submitted to the General Manager Infrastructure and Amenity for approval. A formal response to Governance Department is required by the Manager of Open Space and Recreation that includes comments and details of any changes to the ELCMP.

If Council is requested by ESV to submit its ELCMP within 14 days, Council officers will ensure its ELCMP is sent to ESV via email or hard copy (as requested) by the due date. The ELCMP is available via Council's website: www.portphillip.vic.gov.au

Regulation 9(3) – Preparation of Management Plan

(a) Name, address and telephone number of the responsible person

Name:	Port Phillip City Council
CEO:	Peter Smith
Address:	99A Carlisle Street, St Kilda, Victoria 3182
Telephone No.:	03 9209 6777
Email Address:	assist@portphillip.vic.gov.au

(b) Name, position, address and telephone number of the individual who was responsible for the preparation of the management plan

Name:	Fiona Blair
Position:	General Manager – Infrastructure and Amenity
Business Address:	99A Carlisle Street, St Kilda, Victoria 3182
Telephone No.:	03 9209 6481
Email Address:	fiona.blair@portphillip.vic.gov.au

(c) Name, position, address and telephone number of the persons who are responsible for carrying out the management plan

Name: Anthony Traill
Position: Manager – Open Space and Recreation Services
Business Address: 99A Carlisle Street, St Kilda, Victoria 3182
Telephone No.: 03 9209 6203
Email Address: anthony.traill@portphillip.vic.gov.au

(d) The telephone number of a person who can be contacted in an emergency that requires clearance of a tree from an electric line that the responsible person is required to keep clear of trees

Name: Port Phillip ASSIST
Emergency Tel No.: 03 9209 6777

(e) The objectives of the plan

The objectives of this management plan are:

- Public safety
- Provide a safe working place for employees and service providers
- To comply with the current Regulations and Code of Practice
- Electrical safety
- Minimise fire starts
- Reliability of supply
- Management systems to maximise and maintain the environment and amenity value of the Council's street trees
- Protect areas of important vegetation
- Maintain community satisfaction with the manner in which the necessary works required by the Act are performed

(f) The land to which the management plan applies by the inclusion of a map

See Appendix 1 for the map that identifies the municipal boundary of the City of Port Phillip and zoned areas of pruning.

The City of Port Phillip is an inner urban Council and as such the entire municipality is a declared Low Bushfire Risk Area (LBRA). Before submitting this Plan each year, officers will check for any changes to the Bushfire Risk Area and update the Plan accordingly.

At this time Council does not have details of the number of spans within its municipal boundaries; however, we are in the process of requesting this information from the Distribution Businesses (DBs).

All trees within the municipality are inspected annually for electric line clearance requirements and details are recorded within Council's tree inventory system.

(g) The location of each area that the responsible person knows contains a tree that the responsible person may need to cut or remove to ensure compliance with Code and that is –

i. native:

For the purposes of this Plan, “native” means trees that are remnant and indigenous to the City of Port Phillip.

Currently there are no “native” trees affected by this ELCMP. If any tree is identified as “native”, its status will be updated in Council's tree inventory system and this Plan will be updated annually to reflect those changes.

ii. listed in a planning scheme to be of ecological, historical or aesthetic significance:

Trees located in St Vincent Gardens (in Albert Park) and St Kilda Botanical Gardens are protected under Heritage Overlays within the Port Phillip Planning Scheme.

iii. of cultural or environmental significance:

The City of Port Phillip contains a number of streets with trees of cultural or environmental significance. These trees are recorded on the List of Council Heritage Trees, which can be found in Appendix 5.

A small number of trees on public land, owned and/or managed by Council are also listed on the National Trust which can be found [here](#).

Any “important” tree (i.e. listed above) will be recorded in a separate layer in Council's tree inventory system, and can be identified as such by Electric Line Clearance (ELC) personnel in the field prior to any works.

All changes to the details of any “important” trees are updated immediately by the inspector in Council’s tree inventory system, and this ELCMP will be updated annually to reflect those changes.

(h) The means which the responsible person is required to use to identify a tree specified in paragraph (g):

Consult the following:

- [Port Phillip Planning Scheme](#)
- [National Trust](#) Heritage Register/Overlays
- [Victoria Aboriginal Heritage Register](#)
- [Advisory List](#) of Rare or Threatened Plants in Victoria – 2014*
- [Advisory List](#) of Threatened Invertebrate Fauna – 2009*
- [Advisory List](#) of Threatened Vertebrate Fauna – 2013*
- Council’s tree inventory system

* Flora or fauna listed as threatened with a status of ‘vulnerable,’ ‘endangered’ or ‘critically endangered.’

ELC personnel have access to the tree inventory system in the day to day field activity and can check the status of each tree before conducting works.

As part of the preparation for the Plan, Council will consult with all relevant bodies and standards to ensure all organisational procedures are current.

Council will check the above lists and registers and update all relevant details in its tree inventory system annually to ensure details of all important vegetation are kept up to date.

(i) The management procedures that the responsible person is required to adopt to ensure compliance with the Code, which must:

i. Include details of the methods to be adopted for managing trees and maintaining a minimum clearance space as required by the Code

Management Principals

All vegetation management will be undertaken in line with Council policies and procedures.

Council's tree policy and streetscape strategy ([“Greening Port Phillip – An Urban Forest Approach”](#)) guides Council's tree management practices. This document makes specific reference to the Electric Line Clearance Regulations, which influence the way Council manages its current and future tree population around powerlines.

Council has approximately 20,000 trees affected by powerlines that will be made compliant with the Code of Practice.

This will be achieved through:

- Annual inspection of all trees
- Annual pruning of all trees under High Voltage powerlines*
- Biennial pruning of all other trees under powerlines*

* See Appendix 1 & 2 for map and pruning program

- Pruning of all trees, as far as practicable, in accordance with AS4373 – Pruning of amenity trees
- The selection of appropriate species for new and replacement plantings
- Early intervention (formative pruning) to minimise the impact on existing overhead powerlines
- Requiring all subdivisions and new estates to underground proposed powerlines
- Implementation of engineering solutions and transitioning from overhead open wire powerlines to Aerial Bundled Cabling (ABC) or underground, where appropriate
- Working collaboratively with the DBs to achieve better outcomes

During inspections and works, contractors must refer to and utilise the graphs and diagrams within Appendix 3 and within the Electric Safety (Electric Line Clearance) Regulations 2015 – Figures 1 to 5 – to determine minimum clearance spaces.

Auditing

Tree auditing is undertaken by the contractor prior to the scheduled pruning. A suitably qualified Arborist audits all trees within a zone and records details

against each tree asset, including species, electrical infrastructure potentially affected by the tree, date tree was last inspected and pruned, and the current pruning requirements. These details are recorded in Council's tree inventory system.

See Appendix 4 for an example of data and information maintained on Council's tree inventory system.

If, during the annual inspection, a tree within the biennial program is identified as non-compliant (outside the current pruning cycle), a reactive maintenance request will be raised within Council's customer request system. The tree will then be pruned within the appropriate timeframe and the completed works recorded within Council's tree inventory system.

Where excessive regrowth is occurring between pruning cycles more frequently than expected, the auditor will record comments against the tree/s in Council's tree inventory system. The issue will then be discussed at the monthly tree maintenance contract meeting for a decision on what action, if any, needs to be taken.

A suitably qualified Council officer will:

- Audit the compliance of the contractor's work on a monthly basis as per Council's Amenity Tree Maintenance Contract.
- Ensure that contractors are implementing safe work procedures that include safe approach to electrical apparatus, obtaining suppression, shutdown or live line resources, as required, from the DBs

Urgent Non-compliance

If a tree is identified by the DB or a member of the public as needing urgent attention to maintain Code compliance, an Urgent Tree Maintenance request can be logged by contacting Council ASSIST on 9209 6777 or emailing assist@portphillip.vic.gov.au

The contractor will attend within one hour to assess the tree. If the tree is deemed to require attention, action will be undertaken to complete the necessary clearance within the following timeframes:

- Immediately hazardous – within 2 hours
- High priority but not immediately hazardous – within 20 working days
- Not urgent or immediately hazardous – within Council's programmed pruning schedule (see Appendix 2)

NB. Above timeframes may vary depending on availability of shutdown or live-line resources, if required.

Records of reactive inspections are maintained in Council's tree inventory system.

Data Capture

Council has commenced capturing data on all trees that cannot achieve Code compliance without breaching AS4373; this will take approximately two years to capture data on all trees. Once that data has been gathered we will better understand the number of trees for which to apply an exception, seek an alternative compliance mechanism or engineering solution (such as ABC), or that may require removal and replacement.

The implementation of engineering solutions will depend on Council funding allocations and recommendations from the DBs to determine the most appropriate future management techniques.

Consultation with the DBs

Previously Council and the DBs met infrequently to discuss issues regarding powerline clearance. As an example, Council officers meet with the DBs around February each year to discuss pruning requirements for the Australian Grand Prix. The pruning for this specific event is completed during our annual zone program (see Appendix 2) and reactively, if required, closer to the event date in March.

The Manager of Open Space and Recreation is responsible for ensuring regular meetings take place between Council officers and representatives of the DBs. These meetings should be held at least twice per year to facilitate consultation and discussion of clearance issues such as:

- programming and scheduled works
- accessing live line clearing, suppression & shutdown coordination
- performance
- specific events
- general issues

An agenda will be set, minutes taken during the meeting and any action items arising will be assigned to individuals with a due date set for completion. The chair of the meeting will be responsible for ensuring action items are addressed by the due date and attendees updated quarterly, or prior to the next meeting.

These minutes will provide documented evidence of performance, issues raised and process improvements are achieving the anticipated goals.

Council officers have contacted the DBs and scheduled an initial meeting in October 2018 and then regular (six-monthly) meetings, occurring in February and August each year.

ii. Specify the method for determining an additional distance that allows for cable sag and sway

City of Port Phillip is an inner urban Council and we are unlikely to have many spans exceeding 100m in length. If we identify spans exceeding 100m we will consult with the relevant DBs, via email, to calculate the necessary additional clearance distances if and when required.

Where additional clearance distances are required, these distances will be recorded against the tree asset in Council's tree inventory system to ensure ongoing compliance. Details recorded against the tree asset are available

for use by ELC personnel. This information will be stored within Council's records management system for at least 5 years.

(j) The procedures to be adopted if it is not practicable to comply with the requirements of AS4373 while cutting a tree in accordance with the Code

As far as practicable (i.e. wherever possible) all tree pruning will be done in accordance with AS4373-2007 – Pruning of amenity trees (as published or amended from time to time).

This standard will be achieved by –

a. the contractor:

- employing suitably qualified and experienced staff
- ensuring staff are trained and inducted
- providing appropriate plant and equipment for the task
- verifying the cutting standards through regular audits
- taking appropriate actions, such as refresher training, where pruning is in breach of AS4373-2007 but can be remedied

b. the Council:

- ensuring the requirements set out in 9(3)(j)a, including the need to prune in accordance with AS4373-2007, are included in its Amenity Tree Maintenance Contract
- verifying the cutting standards through regular audits
- taking appropriate actions where regular breaches of AS4373-2007 occur

At the time of inspection, the contractor's auditor will log any identified works and the appropriate equipment required to carry out those works, against the tree asset, within the tree inventory system. ELC personnel refer to the tree inventory system in the field to determine what equipment to use.

Where the inspector or ELC program personnel determines it is not possible to achieve Code compliance without breaching AS4373-2007 – e.g. more than one-third of the canopy, or a limb greater than 150mm diameter needs to be removed – the contractor shall notify Council for a decision to be made on the course of action to be taken.

To minimise the effect of pruning, actions will be prioritised as follows:

1. Prune trees in accordance with AS4373
2. Apply an exception
3. Apply to ESV for an exemption (if appropriate)
4. Seek an alternative compliance mechanism or engineering solution
5. Prune in breach of AS4373
6. Tree removal and replacement

The contractor is responsible for compliance with AS4373; Council is responsible for approval, application or implementation of all other actions.

(k) A description of each alternative compliance mechanism in respect of which the responsible person has applied, or proposes to apply, for approval under clause 31 of the Code

Covered in Schedules 31 and 32 of the Code

(l) The details of each approval for an alternative compliance mechanism that:

i. The responsible person holds

Covered in Schedules 31 and 32 of the Code

ii. Is in effect:

Covered in Schedules 31 and 32 of the Code

(m) A description of the measures that must be used to assess the performance of the responsible person under the management plan

Council will prepare its ELCMP prior to 31 March each year and provide a copy to ESV within 14 days of a request to do so.

The contractor will fulfil its Amenity Tree Maintenance Contract obligations by completing all required inspections and pruning work as per the program detailed in Appendix 2 to minimise the number of breaches of the Code.

The contractor will provide to Council a monthly report detailing its performance regarding ELC. The contractor's performance will be discussed at the monthly

contract meeting, and Council will decide on any necessary corrective action. Details of the contractor's performance, and any corrective action required, will be passed onto ELC program personnel at regular toolbox meetings.

Council and the contractor will conduct monthly audits of completed pruning work. Any tree identified as non-compliant is recorded and the contractor is required to rectify the non-compliance within 15 working days, where practicable.

The records are kept in Council's Customer Service Requests database, record management system and tree inventory system.

At Council's six-monthly performance review of the Amenity Tree Maintenance Contract, Council and its contractor will assess the contractor's ELC performance against the objectives of this ELCMP – i.e. sub-regulation 9(3)(e) – and implement any actions required.

The following Key Performance Indicators (KPIs) will be used to measure the success of the ELC against the objectives in sub-regulation 9(3)(e):

- Zero public safety incidents
- Zero workplace incidents/injuries relating to ELC
- Zero fire starts or outages identified as being caused by Council trees contacting powerlines
- Preparation of the ELCMP prior to 31 March each year
- Completion of the Tree Maintenance Program as per schedule
- A minimum 95% compliance in monthly zone audits
- 100% non-compliance rectified within 15 days of notification
- Less than 10 service complaints per year about ELC pruning

Council will use the above KPIs to benchmark historical work load indicators to verify the current performance of its ELCMP.

Council's tree contractor will provide a monthly report of non-compliant trees for Council to assess and decide on actions to be taken to achieve Code compliance and reduce the quantum of non-compliant trees.

(n) Details of the audit processes that must be used to determine the responsible person's compliance with the Code

Pre-pruning audit

The contractor audits each zone prior to scheduled pruning and:

- Identifies and logs all works required to tree inventory system
- Identifies any shutdown or live-line requirements and
 - logs details in the tree inventory system; and
 - applies for shutdown/live-line resources as required
- Highlights to Council any trees that cannot achieve Code compliance without breaching AS4373 for decision of action to be taken

Progress review

Whilst program pruning is underway, Council officers will attend site regularly to review the progress of the zone pruning works against the schedule, and compliance with the Code. The contractor will be notified of any identified breaches of the Code and is expected to rectify such breaches within 15 days of notification.

Post-pruning audit

Within one month of the completion of pruning works in each scheduled zone (see Appendix 2), Council and the contractor conduct an audit of the previous month's zone, addressing compliance with the Code, quality of pruning works (AS4373) and compliance with the specifications within the tree maintenance contract.

Council officers select random streets from the completed zone to audit, with the sample size being 10% of the total number of trees in the identified zone.

Any non-compliance is noted in the audit and the contractor is required to rectify these trees within 15 working days (or as appropriate).

Council re-inspects the rectified non-compliant tree/s and, if compliant, notifies contractor of compliance achieved and closes out audit process.

Non-compliance due to delays in accessing shutdowns or live-line resources is discussed at the monthly contract meeting. The contractor is responsible for processing of shutdown/live-line applications and keeping a full updated list of outstanding HV works; this list is sent to Council monthly.

OH&S audits

The contractor conducts regular safety audits of its in-field staff and provides copies of these audits to Council in its monthly contract report.

The Senior Arborist is responsible for ensuring monthly OH&S audits are conducted on the contractor, assessing items such as:

- safe work procedures
- equipment
- work-site traffic management
- qualifications

Any issues of non-compliance are noted on the audit form. Any immediately hazardous issue is rectified on the spot; any non-urgent issue is rectified as soon as practicable.

A copy of the audit form, detailing any areas of non-compliance, is sent to the contractor directing them to rectify the issue/area of non-compliance as soon as practicable (within 15 days or as appropriate).

Once Council is notified of rectification of the issue, Council confirms issue rectified, notifies contractor and closes out audit process.

All audit results are kept in Council's records management system and discussed at the monthly contract meetings.

Council will compare the above audit results to historical data to monitor compliance with the Code, and the effectiveness of its ELC risk mitigation strategies.

This data will be discussed with the contractor at its monthly meetings and any trends or regular breaches will be reviewed to identify and analyse the root cause. Root cause analysis and the rectification required will be passed onto ELC program personnel at regular toolbox meetings.

(o) The qualifications and experience that the responsible person must require of the persons who are to carry out the inspection, cutting or removal of trees in accordance with the Code

Staff and contractors undertaking ELC works for Council are working as “authorised persons” as outlined in the Electricity Safety (Installations) Regulations 2009 r. 319(3).

Council will ensure that all staff and contractors carrying out inspections, pruning or removal of trees near electrical infrastructure for compliance with the Code of Practice will have the appropriate qualifications and experience and all ELC works are completed in compliance with the Blue Book.

All staff will have completed Certificate II in ESI Powerline Vegetation Control.
In addition to above:

a. Those pruning or removing trees will have the following:

- National EWP Licence
- First Aid – Level 2
- current Victorian Drivers Licence
- Chipper Operations Certificate
- Chainsaw Operations Certificate
- Implement Traffic Management Plan
- Basic Worksite Traffic Management – VIC National Course Code, 21783VIC – Control Traffic With a Stop-Slow Bat, 21784VIC

- a qualification in Arboriculture (AHC30810 – Certificate III in Arboriculture) and suitable field experience in pruning and removing trees; or be in the process of obtaining a relevant qualification and be working under direct supervision by staff with suitable qualifications in arboriculture and experience in pruning and removing trees

b. Those inspecting and auditing trees will have the following:

- a minimum National Certificate Level IV in Horticulture (Arboriculture), including the nationally accredited "Assess Trees" and "Identify Trees" modules, or an equivalent qualification; and
- at least 3 years field experience in assessing trees

The contractor is required to keep details of all qualifications, experience and training records (including refresher training) of its staff in a training matrix. This training matrix, and copies of the original certificates of staff will be provided to Council in its monthly contract report.

Council officers will review this information upon receipt of each monthly contract report to ensure certificates are current and refresher training is up-to-date. All records will be stored in Council's document management system.

All contractor's staff are subject to ELC induction processes and specific task related site safety assessments. Any staff or contractor found on site without appropriate qualifications, training or experience will be excluded from the site immediately.

As part of the preparation for the Plan, Council will consult with all relevant bodies and standards to ensure all organisational procedures are current.

(p) Notification and consultation procedures

Covered in Schedules 15, 16, 17 & 18 of Code

(q) Dispute resolution procedures

a. Internal Dispute Resolution

Disputes relating to issues with the pruning of Council trees to comply with the Code of Practice will be resolved in accordance with Council's current [Complaint Handling Policy](#).

In relation to this ELCMP there is a stepped process to dispute resolution.

Level 1: The dispute resolution relating to the pruning or removal of trees where it relates to ELC can be addressed to:

Name: Greg Mitchell
Position: Senior Arborist, Open Space and Recreation Services
Address: 99A Carlisle Street, St Kilda, Victoria, 3182
Telephone: 03 9209 6218



Level 2: Multiple requests or disputes not resolved can be addressed to:

Name: Mark Fusco
Position: Coordinator Parks Services
Address: 99A Carlisle Street, St Kilda, Victoria, 3182
Telephone: 03 9209 6475



Level 3: Disputes not resolved through the level 2 process can be addressed to:

Name: Anthony Traill
Position: Manager Open Space and Recreation Services
Address: 99A Carlisle Street, St Kilda, Victoria, 3182
Telephone: 03 9209 6203



Level 4: Disputes not resolved through the level 3 process can be addressed to:

Name: Fiona Blair
Position: General Manager Infrastructure & Amenity
Address: 99A Carlisle Street, St Kilda, Victoria, 3182
Telephone: 03 9209 6481

b. External Dispute Resolution

If the Council's dispute resolution process is unsuccessful in resolving the issue, the plaintiff will be referred to the local Distribution Business, Energy Safe Victoria or the Energy and Water Ombudsman of Victoria, whichever is most relevant.

Regulation 9(4) – Sag and Sway

A method for determining an additional distance that allows for cable sag and sway may provide for different additional distances to be determined for different parts of a span of an electric line

Covered under regulation 9(3)(i)(ii)

Regulation 10 – Obligations relating to management plan

10(7) A responsible person must ensure that a copy of the management plan is:

a. Published on the responsible person's Internet site

To comply with the Regulations, the Manager Open Space & Recreation Services is responsible for ensuring an electronic copy of Council's ELCMP is placed on Council's website just prior to 1 July each year – http://www.portphillip.vic.gov.au/tree_management.htm

At this time, the superseded ELCMP is removed from the website and replaced with the new/current ELCMP.

b. Available for inspection at the responsible person's principal office in the State during normal business hours

A copy of Council's ELCMP is available at Port Phillip City Council's office at 99A Carlisle Street, St Kilda for inspection and comment by the public during normal office hours 9am – 5pm. Front counter staff can access the ELCMP from the Council's website and print out a hard copy upon request.

Regulation 11 – Exemptions

11(2) A responsible person who receives an exemption must ensure that a copy of the exemption is:

a. Published on the responsible person's Internet site

Council has not applied for any exemption at this time and does not know of any possible future exemption applications.

We are currently gathering specific Code-compliance data on all our trees that will inform our decision making around possible future exemption applications. Any future exemptions/applications for exemption will be added to the current ELCMP and updated on the Council's internet site.

b. Available for inspection at the responsible person's principal office in the State during normal business hours

As above, any changes will be updated within the current ELCMP and will be available upon request.

SCHEDULE 1 – CODE OF PRACTICE FOR ELECTRIC LINE CLEARANCE

PART 2 – CLEARANCE RESPONSIBILITIES

DIVISION 1 – ROLES OF RESPONSIBLE PERSONS

At the time of implementing this ELCMP, Council has not identified any trees to which it wishes to apply an exception. If Council decides to apply an exception, the process identified in Schedule 1 of the Code of Practice for Electric Line Clearance, Part 2 Clearance responsibilities, Division 1 Roles of Responsible Persons will be followed and the pertinent information added to this ELCMP.

4 Exception to minimum clearance space for structural branches around insulated low voltage electric lines

Council is in the process of identifying trees that meet the requirements for an exception as outlined in Part 2, Division 1, Clause 4(2) of Schedule 1 of the Code.

The process for exception to minimum clearance space for structural branches around insulated low voltage electric lines is:

- A tree is identified that has structural branches within the clearance zone
- Council determines and ensures that:

- (a) the electric line is an insulated, low voltage cable;
- (b) the branch is greater than 130mm in diameter when it enters the minimum clearance space;
- (c) the branch is more than 300mm from the line;
- (d) within the last 12 months:
 - i. a suitably qualified Arborist has inspected the tree and branch; and
 - ii. the Arborist has advised Council the tree does not have any visible structural defect that may cause the branch to fail and make contact with the electric line; and
 - iii. a risk assessment of the tree and branch has been completed; and
 - iv. any risks identified are effectively mitigated.

The Arborist registers the details of this tree in the tree inventory system. All information relating to inspections of this tree will be stored within Council's records management system for at least 5 years.

5 Exception to minimum clearance space for small branches around insulated low voltage electric lines

Not applicable

6 Exception to minimum clearance space for structural branches around uninsulated low voltage electric lines in low bushfire risk areas

Council is in the process of identifying trees that meet the requirements for an exception as outlined in Part 2, Division 1, Clause 6 of Schedule 1 of the Code. The process for exception to minimum clearance space for structural branches around uninsulated low voltage electric lines in Low Bushfire Risk Area is:

- A tree is identified that has structural branches within the clearance zone
- Council determines and ensures that:
 - (a) the electric line is an uninsulated, low voltage cable, located in a low bushfire risk area; and
 - (b) if the branch comes within the minimum clearance space around the middle two-thirds of the span[#], the span is fitted with:
 - i. if the span length does not exceed 45m – one spreader; or

- ii. if the span length exceeds 45m – two spreaders; and
- # NB. A spreader is not required to be fitted to the span if the branch comes within the minimum clearance space around the first or last sixth of the span.
- (c) the branch is greater than 130mm in diameter when it enters the minimum clearance space;
- (d) the branch is no more than 500mm inside the clearance space; and
- (e) within the last 12 months:
 - i. a suitably qualified Arborist has inspected the tree and branch; and
 - ii. the Arborist has advised Council the tree does not have any visible structural defect that may cause the branch to fail and make contact with the electric line; and
 - iii. a risk assessment of the tree and branch has been completed; and
 - iv. any risks identified are effectively mitigated.

The Arborist registers the details of this tree in the tree inventory system. All information relating to inspections of this tree will be stored within Council's records management system for at least 5 years.

7 A responsible person who owns or operates a transmission line must:

NOTE: Only applies to transmission – not applicable to Councils

8 Responsible person may cut or remove a hazard tree

Incorporating Schedule 13 & Schedule 14 - Restriction on urgent cutting of trees

Hazard Trees

A hazard tree is a tree that has failed, or is likely to fail, and will contact an electric line and cause an outage or fire start if that failure occurs.

Council will ensure all trees are assessed by a suitably qualified Arborist that holds a minimum Arboriculture Certificate Level IV, including the "Assess Trees" module, and has at least 3 years field experience in assessing trees.

The inspecting Arborist will consider:

- a. what is reasonable to assess within the scope of their expertise that indicates the likelihood of contact with an electric line

b. foreseeable local conditions including:

- condition of the tree
- weather
- environmental factors
- significant vegetation
- protected fauna and flora
- habitat

Where a hazard tree is identified, the assessing Arborist will contact the Council to advise details of the hazard tree and seek direction.

Council will approve immediate works to make an unsafe situation safe or give recommendations for the appropriate management of non-urgent hazard trees.

Urgent Cutting or Removal of Hazard Trees

Council will engage a suitable contractor – with qualified and experienced staff – for urgent pruning or removal of trees under power lines. After undertaking the urgent work, the contractor is required to inform Council and all affected persons.

The Contractor engaged for urgent pruning or removal will record the details of the work carried out as listed below:

- When and where the cutting or removal was undertaken
- Why the cutting or removal was required
- Photograph of the tree
- Last inspection of the section of the electric line where the cutting or removal was required

Council will keep records of details as listed in Schedule 8 of the regulations for at least 5 years from the date of cutting or removal.

The person undertaking the urgent work must not prune trees further than 1 metre from the minimum clearance space around electricity lines.

DIVISION 2 – MANNER OF CUTTING AND REMOVING TREES

9 A responsible person cutting a tree to achieve compliance must, as far as practicable, cut the tree in accordance with AS4373 as published or amended from time to time

Covered in regulation 9(3)(j)

10 Cutting or removal of:

- **native trees**
 - **trees listed in a planning scheme to be of ecological, historical or aesthetic significance**
 - **trees of cultural or environmental significance**
- must be minimised**

Cutting or removal of the above trees will be done to achieve Code compliance or to make an unsafe situation safe. To minimise cutting or removal of above important trees, Council staff and its contractors will:

- assess all trees annually
 - prune all trees, as far as practicable, in accordance with AS4373
 - formative prune all young trees, where required, to minimise the impact on existing overhead powerlines (early intervention)
 - prune all trees under High Voltage powerlines annually*
 - prune all other trees within the municipality biennially*
- *see Appendix 1 & 2 for map and pruning program
- prune all trees within St Vincent Gardens and St Kilda Botanical Gardens annually
 - seek approval from Council's Tree Removal Assessment Panel for all tree removals

Any tree proposed for removal to achieve Code compliance will be referred to Council to determine the most appropriate action. For Council to approve the removal of an "important" tree, a suitably qualified Arborist must decide that cutting the tree to achieve compliance with the Code will make the tree unhealthy or unviable. Records of the above decision will be stored in Council's document management system.

For identified significant trees, the contractor will add details of the significance against the tree asset in Council's tree inventory system for future identification.

11 Cutting or removing habitat for threatened fauna

Staff of Council and its contractor will inform themselves of threatened species and their relevant breeding seasons by referring to the following:

- [Advisory List](#) of Threatened Invertebrate Fauna – 2009*
- [Advisory List](#) of Threatened Vertebrate Fauna – 2013*

* Fauna listed as threatened with a status of 'vulnerable,' 'endangered' or 'critically endangered.'

Cutting or removal of habitat for threatened fauna is only to occur to achieve Code compliance or to make an unsafe situation safe.

Where a tree is identified as the habitat of a possibly threatened species, the operator must stop work immediately and inform their supervisor, or Council, and seek clarification of the threatened species and the breeding season of that species.

If a tree is confirmed as habitat of a threatened species, cutting or removal must be undertaken outside of breeding season where practicable. If it is not practicable to cut or remove after breeding season for that species, translocation of the threatened fauna will be undertaken wherever practicable.

The contractor will add details of the habitat status of the tree against the tree asset in Council's tree inventory system for future identification.

12 Restriction on timing of cutting or removal if notification is required

Covered in Schedule 15 & 16

13 Restriction on urgent cutting of trees

Covered in Schedule 8

14 Restriction on urgent removal of trees

Covered in Schedule 8

DIVISION 3 – NOTIFICATION, CONSULTATION AND DISPUTE RESOLUTION

15 Responsible person must provide notification before cutting or removing certain trees

Council and its contractors are only required to cut or remove Council-owned and managed trees, not privately-owned trees.

For trees of cultural or environmental significance, or those listed in a planning scheme to be of ecological, historical or aesthetic significance, that require pruning or removal for Code compliance, the contractor will:

- notify Council of the impact the pruning or removal will have; and
- implement measures to minimise that impact, including:
- prune tree in accordance with AS4373
- prune tree annually
- recommend an engineering solution or alternative compliance mechanism
- note tree as significant in tree inventory system for future identification

Where the cutting or removal of certain Council trees will affect owners/residents of an adjacent property, the property owner/resident will be notified prior to commencement of works and every effort will be made to minimise the disruption caused to the owner/resident during the works.


16 Responsible person must publish notice before cutting or removing certain trees

Council will inform:

- all residents of its street tree pruning program by publishing a notice in the local newspaper (Port Phillip Leader) – see below example
- owners/residents who are affected by tree removal for Code compliance with a notification letter

The above notification will be given at least 14 days and not more than 60 days before the intended pruning or removal is to commence/occur.

The following is an example of the newspaper notification:



Tree Pruning for Electric Line Clearance

In line with the Electricity Safety (Electric Line Clearance) Regulations 2015, the City of Port Phillip undertakes a tree pruning program around powerlines to ensure public safety and manage the long-term health of street trees.

During January 2019, street tree pruning will occur in Albert Park, Middle Park and St Kilda. The City of Port Phillip is committed to maintaining legislated clearances around power lines for electrical safety, and to keep footpaths and roadways clear for pedestrians and motorists.

For further information please refer to Council's website www.portphillip.vic.gov.au or contact ASSIST on 03 9209 6777.

Notification of pruning works will be published in the local newspaper in the first week of every month (see below newspaper advertising schedule). The notification will apply to the following month's work area/s (suburb/s) to ensure notification is not less than 14 days and not more than 60 days prior to commencement of works.

Newspaper Advertising Schedule

2018		
Advert. Month	Listed Month	Listed Suburbs
September-2018	October	South Melbourne and Melbourne
October-2018	November	South Melbourne, Melbourne, Albert Park and Middle Park
November-2018	December	South Melbourne, Melbourne, Middle Park and St Kilda West
December-2018	January (2019)	Albert Park, Middle Park and St Kilda

2019		
Advert. Month	Listed Month	Listed Suburbs
January-2019	February	Albert Park, Middle Park and Elwood
February-2019	March	Middle Park, St Kilda West and Elwood
March-2019	April	Middle Park, St Kilda West, Balaclava and Ripponlea
April-2019	May	St Kilda
May-2019	June	St Kilda and St Kilda East
June-2019	July	Elwood and Port Melbourne
July-2019	August	Elwood, Port Melbourne and South Melbourne
August-2019	September	Elwood and South Melbourne
September-2019	October	Elwood, South Melbourne and Melbourne
October-2019	November	Balaclava, Ripponlea, Albert Park and Middle Park
November-2019	December	Balaclava, Ripponlea, Middle Park and St Kilda West
December-2019	January (2020)	St Kilda

The scheduled pruning program will be monitored and if the pruning does not occur within these timeframes, affected residents will be notified via an updated letter or amended notification published in the next available edition of the newspaper.

17 Responsible person must consult with occupier or owner of private property before cutting or removing certain trees

Not applicable to Councils

18 Notification and record keeping requirements for urgent cutting or removal

Not applicable to Councils

19 Dispute resolution

Covered in regulation 9(3)(q)

DIVISION 4 – ADDITIONAL DUTIES OF RESPONSIBLE PERSONS

20 Duty relating to the safety of cutting or removal of trees close to an electric line

Where it has concerns about the safety of cutting or removing a tree due to the proximity of electrical infrastructure, Council or its contractor will consult the appropriate DB or owner/operator of an electrical supply network.

The following is a list of DBs and owners/operators of electrical supply networks that exist within the City of Port Phillip:

Organisation name: CitiPower, Powercor & United Energy
Contact name and position: Leo Hourigan, Council Liaison Officer
Contact number: 0408 304 984
Email: LHourigan@powercor.com.au

Organisation name: Metro Trains
Contact name and position: Katrina Lewis, Tree Clearing & Conformance Officer
Contact number: 0405 506 488
Email: Katrina.Lewis@metrotrains.com.au

Organisation name: VicTrack
Contact name and position: Pamela James, Infrastructure Asset Officer
Contact number: 03 9619 8892
Email: Pamela.James@victrack.com.au

Organisation name: Yarra Trams
Contact name and position: Gary Tillotson
Contact number: 0412 324 083
Email: gary.tillotson@yarratrams.com.au

21 Duty relating to assisting to determine the allowance for cable sag and sway

Covered in regulation 9(3)(i)(ii) – Not applicable to Councils

22 Duties relating to management procedures to minimise danger

Not applicable to Councils

PART 3 – MINIMUM CLEARANCE SPACES

DIVISION 2 – ALTERNATIVE COMPLIANCE MECHANISMS

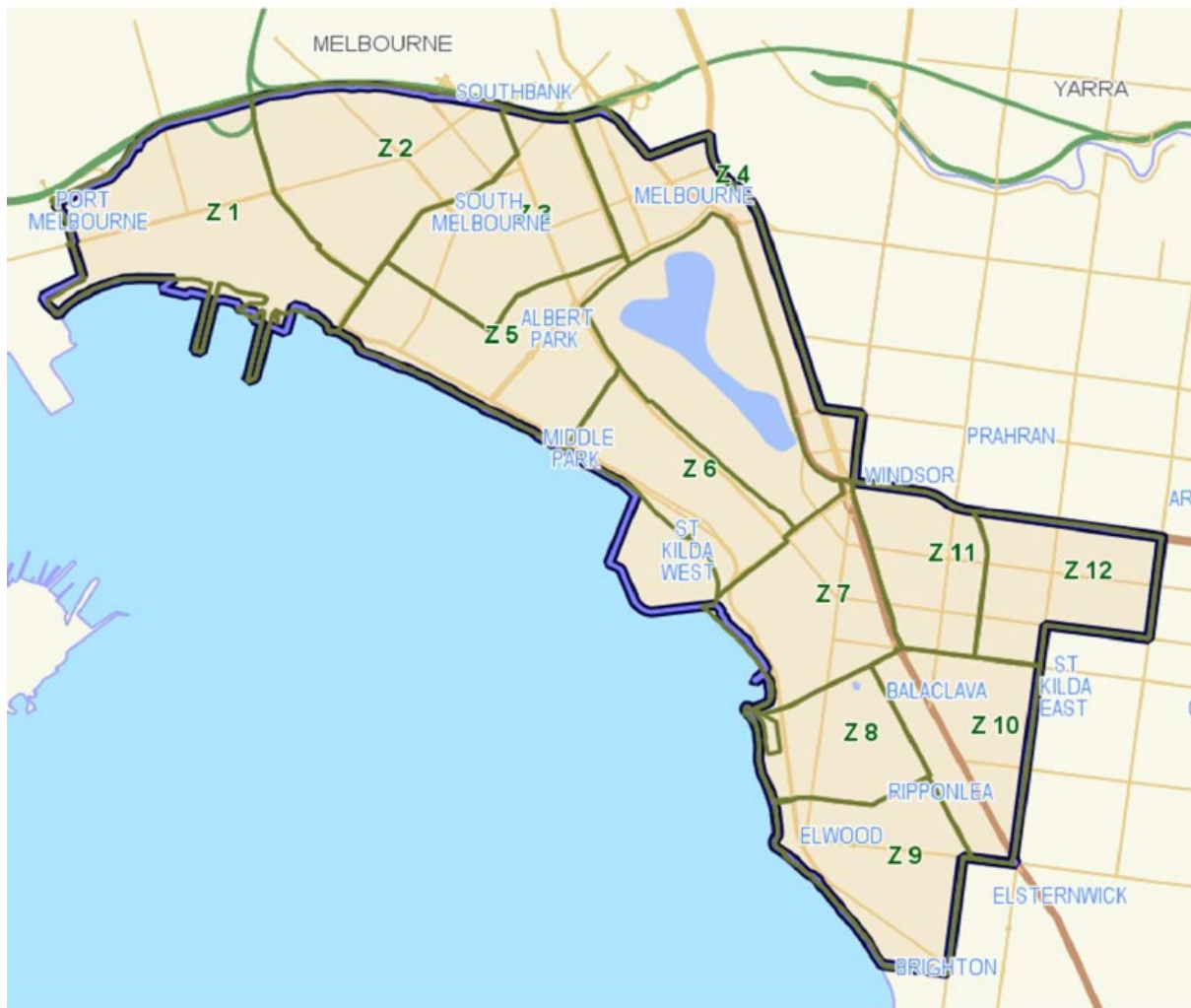
31 Application for approval of alternative compliance mechanism

Council currently has not applied for any alternative compliance mechanisms (ACMs); we are still gathering data to determine what, if any, ACMs we will apply for. Once we decide to apply for an ACM we will amend our ELCMP accordingly and update it on our website.

32 Formal safety assessment of alternative compliance mechanism

See above (Schedule 31)

Appendix 1 – The below map identifies the municipal boundary of the City of Port Phillip and zoned areas of pruning



Appendix 2 – The below table identifies the scheduled month of pruning for annual trees (those under HV) and biennial trees (those under all other powerlines).

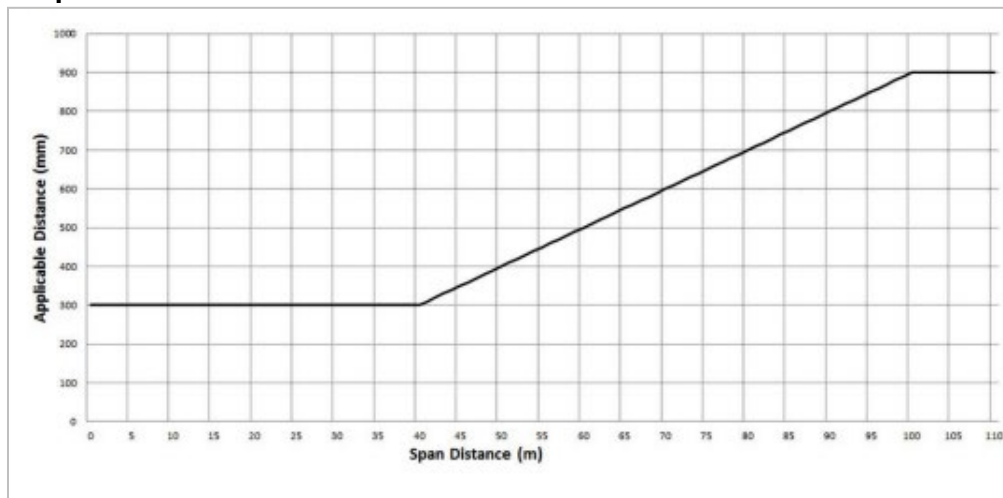
2018	Zone - Suburb	
Month	Biennial Program	Annual Program
September*	Zone 3 - South Melbourne	Zone 3 - South Melbourne
October	Zone 3 - South Melbourne	Zone 4 - Melbourne / South Melbourne
November	Zone 4 - Melbourne / Sth Melbourne	Zone 5 - Albert Park / Middle Park
December	Zone 4 - Melbourne / Sth Melbourne	Zone 6 - Middle Park / St Kilda West

* NB. This ELCMP has been revised and updated since start of new contract (1 September 2018) therefore above program shows only the new contract period.

2019	Zone - Suburb	
Month	Biennial Program	Annual Program
January	Zone 5 - Albert Park / Middle Park	Zone 7 - St Kilda
February	Zone 5 - Albert Park / Middle Park	Zone 8 - Elwood
March	Zone 6 - Middle Park / St Kilda West	Zone 9 - Elwood
April	Zone 6 - Middle Park / St Kilda West	Zone 10 - Balaclava / Ripponlea
May	Zone 7 - St Kilda	Zone 11 - St Kilda
June	Zone 7 - St Kilda	Zone 12 - St Kilda East
July	Zone 8 - Elwood	Zone 1 - Port Melbourne
August	Zone 8 - Elwood	Zone 2 - Port Melbourne / South Melbourne
September	Zone 9 - Elwood	Zone 3 - South Melbourne
October	Zone 9 - Elwood	Zone 4 - Melbourne / South Melbourne
November	Zone 10 - Balaclava / Ripponlea	Zone 5 - Albert Park / Middle Park
December	Zone 10 - Balaclava / Ripponlea	Zone 6 - Middle Park / St Kilda West

Appendix 3 – Graphs and diagrams for applicable distances for middle two thirds of a span of an electric line

Graph 1: Insulated Electric Lines in all Areas



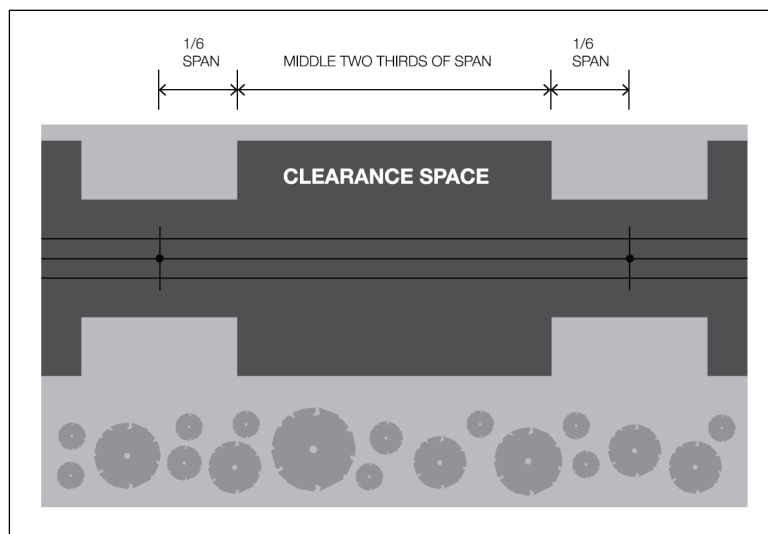
The formula by which the applicable distance, for the middle two thirds of a span of an insulated electric line in all areas, is calculated is as follows:

The applicable distance for the middle two thirds of the span is:

- A. if the span distance is less than or equal to 40 metres the applicable distance equals 300 millimetres; or
- B. if the span distance is greater than 40 metres and less than or equal to 100 metres — the applicable distance is calculated in accordance with the following expression —

$$300 + ((\text{span distance minus } 40) \text{ multiplied by } 10); \text{ or}$$
- C. if the span distance is greater than 100 metres the applicable distance equals 900 millimetres.

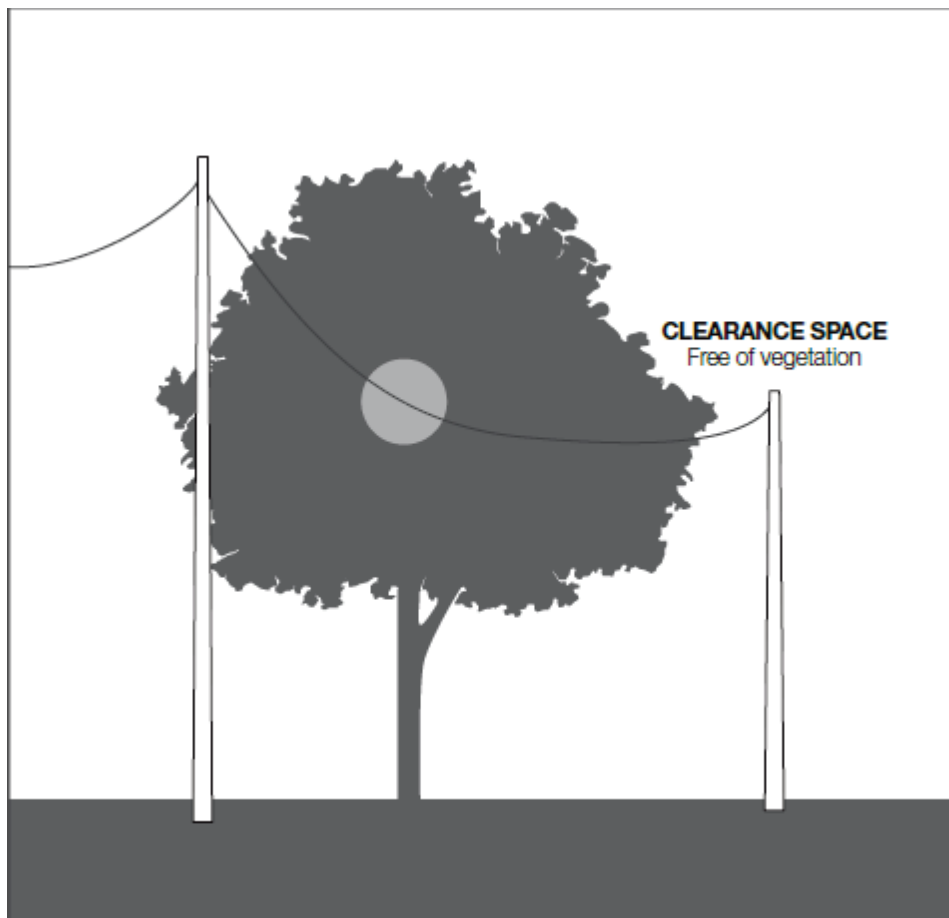
FIGURE 1—PLAN VIEW OF ELECTRIC LINES IN ALL AREAS



Clauses 24, 25, 26, 27, 28 and 29,
 Graphs 1, 2, 3, 4, 5 and 6

FIGURE 2—INSULATED ELECTRIC LINES IN ALL AREAS

Clause 24, Graph 1



NOT TO SCALE

Graph 2: Uninsulated Low Voltage Electric Line in Low Bushfire Risk Area



The formula by which the applicable distance for the middle two thirds of a span of uninsulated low voltage electric line in a low bushfire risk area is calculated is as follows

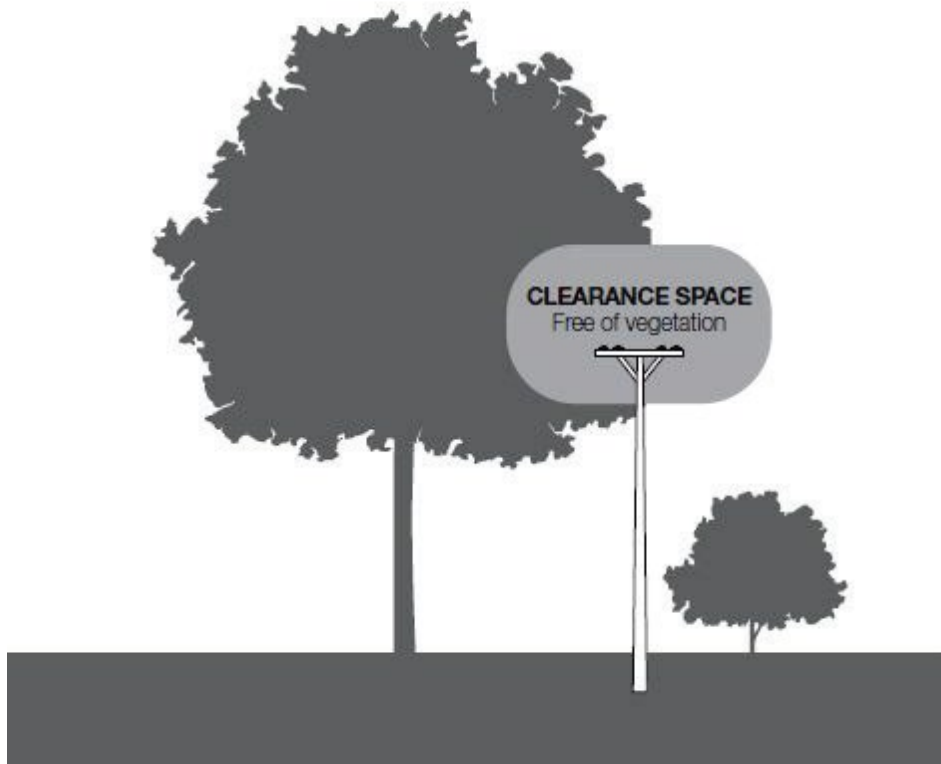
- A. if the span distance is less than or equal to 45 metres the applicable distance equals 1000 millimetres; or
- B. If the span distance is greater than 45 metres and less than or equal to 100 metres the applicable distance is calculated in accordance with the following expression:

$1000 + ((\text{span distance minus } 45) \text{ multiplied by } (1500 \text{ divided by } 55)); \text{ or}$

C. if the span distance is greater than 100 metres the applicable distance equals 2500 millimetres.

**FIGURE 4—UNINSULATED LOW VOLTAGE ELECTRIC
LINE IN A LOW BUSHFIRE RISK AREA**

Clause 25, Graph 2



NOT TO SCALE

Graph 3: Uninsulated High Voltage Electric Line (other than a 66,000 volt electric line) in Low Bushfire Risk Area



The formula by which the applicable distance for the middle two thirds of a span of uninsulated high voltage electric line (other than a 66,000 volt electric line) in a low bushfire risk area is calculated is as follows:

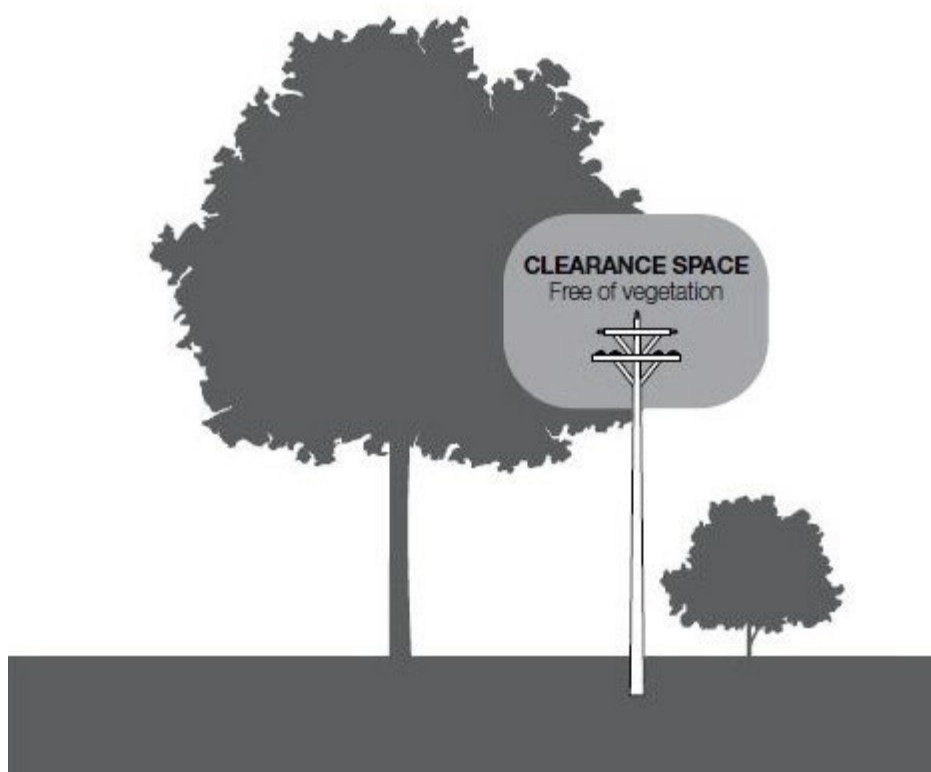
- A. if the span distance is less than or equal to 45 metres the applicable distance equals 1500 millimetres; or
- B. if the span distance is greater than 45 metres and less than or equal to 100 metres, the applicable distance is calculated in accordance with the following expression

$1500 \text{ (span distance minus 45) multiplied by (1000 divided by 55)}; \text{ or}$

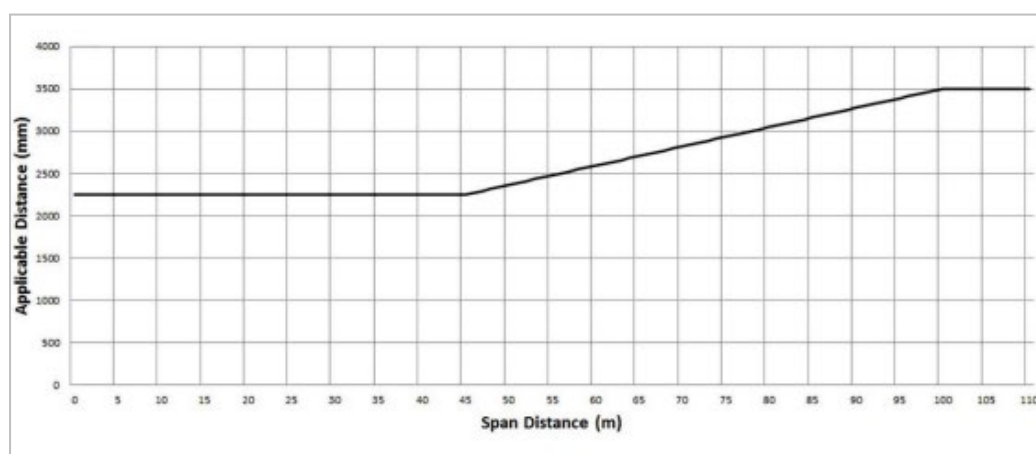
- C. if the span distance is greater than 100 metres the applicable distance equals 2500 millimetres.

**FIGURE 3—INSULATED ELECTRIC LINES IN ALL AREAS
AND UNINSULATED HIGH VOLTAGE ELECTRIC LINES
(OTHER THAN 66 000 VOLT ELECTRIC LINES) IN LOW
BUSHFIRE RISK AREAS**

Clauses 24 and 26, Graphs 1 and 3



Graph 4: Uninsulated 66,000 Volt Electric Line in Low Bushfire Risk Area



The formula by which the applicable distance for the middle two thirds of a span of uninsulated 66,000 volt electric line in a low bushfire risk area is calculated is as follows:

- A. if the span distance is less than or equal to 45 metres the applicable distance equals 2250 millimetres; or
- B. if the span distance is greater than 45 metres and less than or equal to 100 metres the distance calculated in accordance with the following expression
$$2250 + ((\text{span distance minus } 45) \text{ multiplied by } (1250 \text{ divided by } 55)); \text{ or}$$
- C. if the span distance is greater than 100 metres the applicable distance equals 3500 millimetres.

Appendix 4 – Example of Tree Inventory System Data

The below image demonstrates collection of data and information maintained in Council's tree inventory system



An aerial photograph of a residential street, Godfrey Av, showing several houses with red-tiled roofs. Green dots are placed along the street, likely indicating the locations of trees. A red dot is placed on one of the trees, indicating a specific tree of interest.

COPP_TREES_ALL	
Asset ID	39080
Active	Active - Tree
Segment ID	1934
Street no	12
Street	GODFREY AV
Suburb	ST KILDA EAST
Reserve	
Zone	13
Ward	JUNCTION
Common Name	Sycamore
Family	Platanaceae
Species	Platanus occidentalis
Tree Type	Street
Tree Base	Nature Strip
Overhead Cable	HV/LV
Protection	None
CanopyNS	4
CanopyEW	4
CanopyCover...	12.57
NonCompliant	No
Planting Year	1996
Height	4
DBH	30

Appendix 5 – List of Council Heritage Trees

Suburb	Street	Site Name	Circa	Description
Port Melbourne	Station Street	Turner/Hester Reserve	1900-1920	Well planted park predominantly exotics. Cedrus deodara, Schinus molle var areira, Ficus macrocarpa, Cupressus sempervirens, Populus deltoides, Populus nigra 'Italica', Platanus sp and Eucalyptus filicifolia.
Port Melbourne	Evans Street	Walter Reserve	1900-1920	Mainly exotic planting, street edge lined with row of mature Schinus molle var. areira. Avenue of elms c1920s in centre of reserve (incomplete), with bitumen bike path. Railway planting includes mature Arbutus unedo, golden privet, cotoneaster, elms and gums. There is some modern play equipment. A very large single specimen of Ficus macrophylla is planted in a fenced-off reserve in the centre of Raglan St; another smaller specimen nearby.
Port Melbourne	Raglan to Ingles St.	Gill Reserve	Planting 1920's	Mature Schinus molle var. areira on street side, mixed Cupressus sempervirens, Lagunaria patersonii, old Arbutus unedo, row of Platanus orientalis.
Port Melbourne	Raglan to Ingles St.	Howe Reserve	1920's	Mature Schinus molle var. areira & Ficus macrophylla on street side, avenue of elms in centre, some golden privet & cotoneaster on rail line side.
Port Melbourne		Smith Reserve	1920's	Mature Schinus molle var. areira & Ficus macrophylla on street side, avenue of planes in centre, Populus deltoides on rail line side. Some newer inappropriate plantings Robinia sp. Group and 2 x Eucalyptus citriodora.

Suburb	Street	Site Name	Circa	Description
				Plantings of Cupressus torulosa, Lagunaria patersonii, Cedrus deodara, Grevillea robusta, palm (Washingtonia sp.?).
Port Melbourne	Evans Street West	Cook Reserve	1900-1920	Mature Schinus molle var. areira & native grasses
Port Melbourne	Eans Ave, Farrell St.	Turner Reserve	C1900-1920s reserve, 1940s planting	Railway reserve with mature exotic and native plantings. Populus nigra 'Italica', Populus deltoides, Populus canescens, Cotoneaster serotinus, Salix sp., Lagunaria patersonii, Cupressus glabra, Araucaria heterophylla
Port Melbourne	Clark St, Graham St to Bridge St		C1920-30	Mature street trees – planes (Platanus sp.) on both sides of street, some gaps in planting
Port Melbourne	Farrel St, cnr Clark St		C1960s	Mature Agonis flexuosa in pavement; local landmark tree
Port Melbourne	Farrell St. Ross St to reserve		C1900 or older	Five mature Schinus molle var. areira along street off railway reserve
Port Melbourne	Farrell St, Liardet & Stoke Sts			Triangular reserve/neighbourhood park with some play equipment, seats and bluestone base to drinking fountain. Mature trees include Schinus molle var. areira, elms and mature but recent plantings of eucalypts.

Suburb	Street	Site Name	Circa	Description
Port Melbourne	Reserve bounded by Princess St., Raglan & Nott Sts.		C1920s	Mature street trees – four planes (<i>Platanus</i> sp.) in triangular reserve/neighbourhood park with some play equipment and SEC substation.
Port Melbourne	Esplanade East, between Raglan St & Spring St		C1920s-40s	Some mature poplars (<i>Populus deltoids</i>) x 4 & mature but more recent plantings of native trees (eg <i>Eucalyptus nicholli</i>) in centre median reserve and footpaths
Port Melbourne	Esplanade East, Spring St to Bridge St		C1920s-40s	Mature poplar (<i>Populus deltoids</i>) x 1 & mature but more recent plantings of native trees (eg <i>Eucalyptus</i> sp.) in centre median reserve and footpaths
Port Melbourne	Esplanade East, Bridge St to Richardson St		1940's	Mature poplars (<i>Populus deltoids</i> & <i>P alba</i>) in centre median reserve and side footpaths
Port Melbourne	Edwards Avenue	Edwards Reserve	C1910-20	Unnamed public reserve – avenues of distinctive tall <i>Phoenix canariensis</i> and beds of roses. Some new play equipment and two public shelters – one timber c1920s and other rubble stone base and timbre c1940s. Mature trees on street side of Liardet St. are <i>Populus alba</i> and a group of planes.
Port Melbourne	Gladstone St, Ingles to Boundary Rd	Page Reserve	C1920	Mature trees include rows of elms (<i>Ulmus</i> sp.), no <i>Schinus molle</i> var. <i>areira</i> on street but on rail line. Some newly planted <i>Schinus molle</i> var. <i>areira</i> and <i>Lagunaria patersonii</i> on street side of reserve, also mature plane (<i>Platanus</i>

Suburb	Street	Site Name	Circa	Description
				sp.) and poplars including <i>Populus nigra</i> 'Italica'. Random rubble stone wall and indented seating on Ingles St.
Albert Park	Pickles St	Gasworks Park	19C; redesigned c1980s	Arts and theatre park set in former industrial site with sculptures, open lawn areas & planted garden beds of native trees & shrubs. Site very altered from former gas works plant with new lawn areas, groups of trees (mainly gums) and native shrubs. Metal mesh furnishings (tables, seats, lamps) & new play equipment, gravel paths. <i>Washingtonia filifera</i> x 2 at west/Graham St entrance either relocated or original.
Albert Park	Bridport St West, Moubray St to Richardson St		C1870s	Mixed age trees mostly old <i>Ulmus</i> sp.
Albert Park	Victoria Ave, Moubray St to Richardson St		C1870s	Mature elm trees (golden elms in other sections of Victoria trees Moubray St to Avenue are more recent inappropriate plantings)
Albert Park	Richardson St, Phillipson St to Kerferd Rd		C1880s	Mature avenue of plane trees
Albert Park	Kerferd Rd		C1900	Mixed age plane trees
Albert Park	Danks St, Kerferd Rd to Victoria Ave		C1900	Planting in central median of Mahogany gum (<i>Eucalyptus botryoides</i>)

Suburb	Street	Site Name	Circa	Description
Albert Park	Beaconsfield Pde, Victoria Ave to Pickles St			Recently planted mature Phoenix canariensis
Albert Park	St Vincent Place	St Vincent Gardens		Extensive historic public gardens with collection of rare and unusual trees and planting, various buildings and recreational facilities (see separate studies & NTA classification report)
Albert Park	Kerferd Rd, Clarendon St to Neville St		C1920s	Plane trees in central median, younger Lagunaria patersonii at kerb
Albert Park	Kerferd Rd, near Page St		C1920s	No plane trees but two mature Eucalyptus ficifolia in centre median, some Lagunaria sp at kerb
Albert Park	Kerferd Rd, near Beaconsfield Pde		C1920s	Group of mixed age Araucaria heterophylla in central median
Albert Park	Page St, Kerferd Rd to McGregor St		C1920s	Mature plane trees, gaps in some sections of street
Albert Park	Richardson St, Kent St to Fraser St		C1920s	Mature plane trees in consistent avenue along street
Albert Park	Park Rd, Langridge St to Fraser St		C1920s	Short section of street planted with mature plane trees

Suburb	Street	Site Name	Circa	Description
Albert Park	Park St, Fitzroy St to Mary St		C1920s	Plane tree avenue, some elms near Fitzroy St end
South Melbourne	Boundary Rd, Normanby St to Woodgate St		C1930s	Mature street trees are elms (Ulmus sp.)
South Melbourne	Adjacent to Woodgate St		C1920s	Some mature Schinus molle var. areira; newer planting of eucalypts, banksias & native shrubs
South Melbourne	Gladstone La.		C1920s	Row of mature Schinus molle var. areira along railway reserve
South Melbourne	Montague St		C1920s	Mature lilypilly (Acmena smithii) at various locations both sides of street
South Melbourne	Normanby St, Montague to Boundary St		C1920s or later	Mature street trees - elms (Ulmus sp.) both sides of street
South Melbourne	Normanby St, Boundary to Ingles St		C1940s	Mature street trees - planes (Platanus sp.) both sides of street
South Melbourne	Montague St, between Normandby St & Woodgate St		C1920s	Mature elms (Ulmus sp.) on west side of street

Suburb	Street	Site Name	Circa	Description
South Melbourne	Montague St between Munro St & Normanby St.		C1920s	Mature elms (Ulmus sp.) on west side of street
South Melbourne	Glover St, St Vincent Place to Iffla St		C1870s	Large mature pollarded planes
South Melbourne	Glover St, cnr Pickles St		C1870s	Two mature planes
South Melbourne	Henderson St, Pickles St to St Vincent Place		C1920s	Mature plane trees
South Melbourne	Henderson St		C1920s	Single mature peppercorn tree (Schinus molle var. areira) in tree street reserve
South Melbourne	City Rd	Sol Green Reserve	C1947	Triangular reserve bounded by City Rd, Nelson St & Montague St. Mature planes (Platanus sp.) along west street; mature street trees - elms (Ulmus sp.) east side of reserve; most other trees are recent natives. Plaque on damaged scoria stone wall and iron railing on City Rd in appreciation of gift by Sol Green of £2,000 in 1947 to establish a playground. Some new playground equipment, netball area with bitumen, bbq & Sol Green mudbrick building.

Suburb	Street	Site Name	Circa	Description
South Melbourne	Eastern Rd, north corner Heather St. & Park St	Eastern Road Reserve	C1900	Triangular road reserve; open lawn area with perimeter planting of mature elm trees. Memorial basalt drinking fountain dated 1906 & presented to the citizens of South Melbourne by former Mayor Donald McArthur.
South Melbourne	Eastern Rd, north corner Heather St. & Park St	Eastern Road Reserve	C1900	Triangular road reserve; open lawn area with perimeter planting of mature elm trees. Children's play area fenced off (opposite kindergarten). Play equipment, brick toilets & timber pavilion.
South Melbourne	Howe Cres, cnr Cecil St & Park St		C1880s	Mature elms
South Melbourne	Howe Cres, cnr Cecil St & Bridport St		C1920	Mature group of mixed species: row of Phoenix canariensis, elms, and 2 x Pinus radiata
South Melbourne	Ward St, Dorcas St to Bank St		C1920	Mature elm trees forming avenue
South Melbourne	Albert Rd		C1920s	Mature Phoenix canariensis in centre median alternating with younger Lophostemon confertus. Service street planting of ash not significant.
South Melbourne	Canterbury Rd, corner Cowderoy St,	HR Johnson Reserve	C1920s	Public park with open grass, play equipment, native trees and shrubs. Some Populus deltoides, Populus canescens, Populus sp, very large Pinus pinea.
South Melbourne	Cowderoy St corner Deakin St	Jacoby Reserve	C1920s or earlier	Older plantings include Ficus rubiginosa x 4, Eucalyptus calophylla, Araucaria heterophylla x 1, gravel paths, play equipment, seats, SEC substation red brick building used as works shed, new planting of Australian natives mainly

Suburb	Street	Site Name	Circa	Description
				shrubs and trees on park perimeter. <i>Metrosideros tomentosa</i> on Cowderoy St., plane trees on Deakin St.
St Kilda East	Bounded by Alma Rd., Dandenong Rd and railway line.	Alma park West	19c	The western part of Alma Park comprises more exotic garden elements and is more of a garden than the eastern park, although recent planting particularly at the northern section is altering the historic character. Much of the garden beds along the centre of the park are edged with volcanic rock typical of 19c-c1920s. At either side of the central garden beds are rows of mature elms and other trees. A small slate-roofed house 1880s is adjacent to the Dandenong Rd. entrance but intrusively fenced from the park. Nearby are inappropriate CCA-treated posts next to the path to the house. In this area are many inappropriate modern plantings of natives such as wattles, <i>Melaleuca</i> sp., etc. which limit views into and out of the park. Elms may indicate former carriage drive through park Extensive range of exotic plantings in beds and grassed surrounds have been replaced in many instances with inappropriate natives. Mature trees include <i>Phoenix canariensis</i> , <i>Platanus</i> sp. (dieback?), <i>Grevillea robusta</i> , <i>Cedrus deodara</i> , rows of <i>Pinus radiata</i> , <i>Populus deltoides</i> , mixed <i>Eucalyptus</i> sp., Garden beds include <i>Tecoma stans</i> , <i>Pittosporum undulatum</i> (overgrown), <i>Photinia serrulata</i> , <i>Cotoneaster serotinus</i> , <i>Nerium oleander</i> , <i>Garrya elliptica</i> , hollies, <i>Raphiolepis</i> sp., <i>Viburnum tinus</i> , <i>Arbutus unedo</i> , cannas and at the southern

Suburb	Street	Site Name	Circa	Description
				end a section of succulents. The most distinctive feature of the park is a small garden pavilion in the garden beds near an avenue of olive trees, (another former carriage drive?) and golden privet hedging, 2 x Pinus pinea, and underneath a large Cedrus deodara. The pavilion has no plaque but a bitumen base, silver metal onion-top dome roof with timber seating and cross bracing. At the southern end of the park is an open lawn area with mixed specimen trees including Brachychiton populneus, Phoenix canariensis x 3, a very large Ficus macrophylla near the rail line, and a bitumen bike path between the rail line and a row of mature Schinus molle var areira.
St Kilda East	Bounded by Alma Rd, Westbury St., Dandenong Rd and railway line	Alma Park	19c	Northern part of park has oval and southern section mainly passive recreation with mature trees throughout the park including numerous Quercus suber, large Ficus macrophylla (adventure play equipment connected into tree), Araucaria columellaris, Eucalyptus cladocalyx, Salix sp., Ulmus parvifolia, Quercus robur. Gravel paths, major path bitumen, small play equipment pieces within large area devoted to adventure play, oversized tyre structure, sculpture, bbq, grasses, pond with creek running through it, modern lights (?inappropriate modern teardrop shape). Main path/road avenue of elms alternating with mature Pinus radiata. Mature row of Pinus radiata on west side of park near rail cutting c1920s. Seedling Quercus suber on rail embankment. Northern part of park near Dandenong Rd., entrance contains

Suburb	Street	Site Name	Circa	Description
				two old Quercus suber, Grevillea robusta, Lagunaria patersonii, Eucalyptus camaldulensis, Pinus radiata and elms. Newer planting of native trees, shrubs and grasses. Memorial plaque dated 14.5.1975 at base of large gum to Dr Harry Ireland, councillor of St Kilda 1966-73, died 28.2.1974. Poor screening from flats & buildings on eastern side of park. Main bitumen path in poor repair for many elderly users of park. Use of recreational facilities in southern part of park too intensive and considerable compaction and wear evident.
St Kilda East	Raglan Street		C1920- 40	Mature plane trees both sides of street (incomplete avenue)
St Kilda East	Godfrey Ave		C1920- 40	Mature Plane trees both sides of street
St Kilda East	Westbury Gve		C1920s	Mature plane trees both sides of street
St Kilda East	Boondarra Gve		C1920s	Mature plane trees both sides of street
St Kilda East	Montague Ave		C1920s, c1940s	Mature lilypilly alternating with younger golden ash both sides Area 17 trees c1940s of street
St Kilda East	Holroyd Ave (a)		C1920s	Mature pin oak (Quercus palustris) alternating with lilypilly Area 17 trees both sides of street

Suburb	Street	Site Name	Circa	Description
St Kilda East	Holroyd Ave (b) south of Alma Rd		C1920s	Mature liquidamber, pin oak & lilypilly alternating both sides Area 17 trees south of Alma Rd of street
St Kilda East	Holroyd Crt		C1920s	Mature camphor laurel (Cinnamomum camphora) x 4
St Kilda East	Nottage St		C1920s	Mature pin oak (Quercus palustris) alternating with lilypilly Area 17 trees both sides of street
St Kilda East	Dean Ave		C1920s	Mature liquidamber trees both sides of street
St Kilda East	Alma Rd, Lansdown Rd to Orrong Rd		C1900-1920	Mature plane trees & other species such as Lagunaria sp. North side of street only.
St Kilda East	Orrong Rd, between Alma Rd & Dean Ave		C1900-1920	Mature plane trees
St Kilda East	Orrong Rd, between Hughenden Rd & Alma Rd		C1940	Sparse planting of ash trees
St Kilda East	Lansdowne Rd, between Alma Rd & Kurrajong Ave		C1900-1920	Mature holm oak (Quercus ilex) x2

Suburb	Street	Site Name	Circa	Description
St Kilda East	45 Lansdowne Rd,		C1920	Mature Cupressus sempervirens x 3 and row of Populus nigra Area 17 Rd Italica on street
St Kilda East	45 Lansdowne Rd, south of Kurrajong Ave		C1920	Mature lilypilly alternating with mixed Quercus sp. also newer Area 17 trees south of Lophostemon confertus at south end of street
St Kilda East	Marne St		C1940	Mature ash trees (incomplete) both sides of street
St Kilda East	Wenden Gve		C1920	Lilypilly trees both sides of street
St Kilda East	Dandenong Rd, Hotham St to Shirley Gve		C1920+	Mature plane trees, some elms between Shirley Gve & Alexandra St.; gap with no trees for eastern section outside cemetery. Also plane trees in central median.
St Kilda East	Dandenong Rd, Hotham St to Westbury St		C1920+	Mature plane trees. Also plane trees in central median.
St Kilda East	Orrong Rd, between Hughenden Rd & Dandenong Rd		C1940	Mature ash trees, incomplete plantings

Suburb	Street	Site Name	Circa	Description
St Kilda East	Orrong Rd, between Hughenden Rd & Dandenong Rd		C1900-20	Mature plane trees
St Kilda East	Hughenden Rd		C1930-40	Mature liquidamber trees both sides of street
St Kilda East	Celeste Ct		C1940	Lagunaria patersonii & liquidamber tree plantings
St Kilda East	Te-Arai Ave		C1920	West side liquidamber; east side 2 x mature Eucalyptus filicifolia
St Kilda East	Alexandra St		C1900	Mixed age plane trees, north end oldest; newer planes to south but west side only; east side young Lophostemon confertus
St Kilda East	Murchison St		C1900-20	Mature plane trees both sides. Note plaque in street to Albert Jacka, first Australian VC medal, former Mayor of St Kilda 1930-31, former resident of Murchison St 1925- 1932 buried in St Kilda Cemetery 1932.
St Kilda East	Mooltan Ave		C1950s	Spanish Mission houses with Betula pendula street trees & Area 17 trees Alnus jorullensis x 2
St Kilda	Crimea St, between Alma Rd & Wellington St		C1900	Mature plane trees both sides of street

Suburb	Street	Site Name	Circa	Description
St Kilda	Redan St, between Crimea & Chapel St		C1900	Mature plane trees both sides of street
St Kilda	Charnwood St, between St Kilda Rd & Crimea St		?c1920s	Mature plane trees both sides of street
St Kilda	Barkly St, near Carlisle St	J Talbot Reserve	?c1920s	Probably developed in association with the National Theatre, Park contains mixed native and exotic trees including ash, Eucalyptus maculata, mature Schinus molle var. areira x 2 next to the National Theatre also two large Eucalyptus cladocalyx, Cupressus macrocarpa, Populus nigra 'Italica'. Phoenix canariensis, elm, Cupressus torulosa. Golden privet hedges define paths and in centre of park, newer planting of tree rows in the centre of the park is inappropriate. Some play equipment, gravel paths. Row of Cupressus torulosa at northern boundary
St Kilda	Irymple Ave		C1900-20	Mature plane trees both sides of street
St Kilda	Foster Ave		C1940s	Mature liquidamber (Liquidamber styraciflua) trees both sides of street
St Kilda	Barkly St, South of Blessington St		C1900-20s	Mature & mixed age plane trees both sides of street with some Area 18 trees of Blessington St gaps. Extends from south of Blessington St to Ormond
St Kilda	Blessington St, between Chaucer St & Barkly St		C1920s	Mature plane trees both sides of street, some gaps

Suburb	Street	Site Name	Circa	Description
St Kilda	Blessington St,	Peanut Farm Reserve	C1900-1920s	Public parkland with recreational facilities such as bitumen basketball area, cricket enclosure, wall for ball hitting, brick sports pavilion and a large grassed oval, and an open grassed area. There are excellent views across the park to Luna Park. Mature planting of <i>Araucaria columellaris</i> (stunted), perimeter of park planted with <i>Phoenix canariensis</i> , and groups of gums (<i>Eucalyptus cladocalyx</i>).
St Kilda	Blessington St,	Renfrey Gardens	19c, 1920s	A large neighbourhood park with new play equipment and mature trees dating from c1920s period. <i>Phoenix canariensis</i> , <i>Phoenix sylvestris</i> , large <i>Ficus macrophylla</i> at entrance on northern side, <i>Cupressus macrocarpa</i> , <i>Syncarpia glomulifera</i> ; newer plantings of natives such as <i>Eucalyptus botryoides</i>
St Kilda	Blessington St, Herbert St, Dickens St & Tennyson St	St Kilda Botanical Gardens	Est. 1859	Plaque at Blessington St. entrance states gardens established 28.9.1859, later called the Blessington St. Gardens and renamed 21.10.1984 by Cr. John Callanan, Chairman of Friends of the St Kilda Botanical Gardens. The main Blessington St. gates are decorative cast iron with masonry pillars. The

Suburb	Street	Site Name	Circa	Description
				Gardens contain many mature exotic and some native trees and shrubs including golden privet hedges, <i>Ficus macrophylla</i> , planted c1916, two <i>Quercus suber</i> , <i>Podocarpus falcatus</i> , <i>Phillyrea latifolia</i> (mock privet) and <i>Olea europea</i> ssp. <i>africanus</i> are NTA listed Significant Trees. The Gardens also have a collection of buildings include red brick & timber lattice pavilion, a gift to citizens from Mr & Mrs Alfred Levi, February 1929, and the more recent St Kilda Conservatory built in recent years. There is a large rose garden, ponds and paths are rolled gravel with red brick spoon drains. See separate conservation study.
St Kilda	The Esplanade	Alfred Square Gardens	C1920s or earlier	Central war memorial (by Arthur Peck arch, nd). Reserve planted with mature <i>Phoenix canariensis</i> , some older shrubs & trees – olives x 2, <i>Metrosideros tomentosa</i> , <i>Pittosporum crassifolium</i> , <i>Lagunaria patersonii</i> , and scoria rock edging to beds. Also rock pillar and plaque noting site of first building in St Kilda – a stockman's hut erected c1840 by Capt. Benjamin Baxter
St Kilda	Lower Esplanade		C1920	Carlo Catani Memorial clock tower (d. 20.7.1918) in linear terraced reserve of scoria rock edged beds and paths, rock columns and seating areas. Reserve planted with mixed trees and shrubs including <i>Metrosideros tomentosa</i> , <i>Pittosporum crassifolium</i> , <i>Lagunaria patersonii</i> , <i>coprosma</i> , golden privet, tamarisk and agapanthus
St Kilda	18 Duke St	Alma Court	C1920s	<i>Phoenix canariensis</i> x 3 in a row

Suburb	Street	Site Name	Circa	Description
St Kilda	Glenmark St		C1920s+	Avenue of plane trees
St Kilda	Cintra Ave		C1920s	Excellent plane tree avenue
St Kilda	Charlotte Pl		C1920+	Avenue of plane trees
St Kilda	Acland St	O'Donnell Gardens	C1930s	Garden with mixed planting predominantly palms, Phoenix canariensis, Washingtonia filifera, Phoenix sylvestris, Trachycarpus fortuneii, Livistona sp. Also golden privet and coprosma hedging, scoria edging to lawn areas, concrete winding paths, sections of rock walling. Major feature is O'Donnell Memorial, central concrete art deco-style monument to Councillor Edward O'Donnell, six times mayor of St Kilda, councillor for West Ward for 44 years & foundation member of St Kilda Foreshore Committee, died 7.7.1933
St Kilda	Marine Pde, cnr Shakespeare Gve		C1920s?	Group of Phoenix canariensis in road reserve
St Kilda	Marine Pde, cnr Cavell St		C1920s?	Group of Phoenix canariensis (some dwarf form) along road reserve. More recent planting of native species not significant
St Kilda	Marine Pde, Jacka Blvd to Shakespeare Gve			Phoenix canariensis and Washington filifera. Areas underplanted with natives (not significant)
St Kilda	Carlisle St	St Kilda Town Hall	Pre 1900	Garden associated with St Kilda Town Hall. Triangular shaped land off Brighton St and Carlisle St. containing many mature exotic trees. At the

Suburb	Street	Site Name	Circa	Description
				southern boundary with the St Kilda Primary School are two excellent specimens of <i>Araucaria bidwillii</i> and <i>Pinus canariensis</i> . 2 x <i>Cupressus torulosa</i> are planted adjacent to the driveway entrance off Brighton Rd and another pair on Carlisle St. Other old plantings include <i>Melia azederach</i> , <i>Cercis siliquastrum</i> , <i>Populus nigra</i> 'Italica', <i>Magnolia grandiflora</i> , and <i>Fraxinus ornus</i> . A <i>Ficus rubiginosa</i> on Brighton Rd next to another bunya is probably one of the largest specimens in Melbourne and should be nominated to the NTA Significant Tree Register. Either side of the Town Hall frontage are a pair of <i>Araucaria heterophylla</i> . Most planting of any age and significance is on the north and west sides of the building with little to none on the south or east.
St Kilda West	York St, Cowderoy St to Deakin St		C1920s	Mature plane trees one side of street, mixed species on other
St Kilda West	Loch St, Deakin St to Mary St		C1920s	Mature ash avenue, other species also
St Kilda West	Mary St, Beaconsfield Pde to Canterbury Rd		C1920s	Excellent avenue of mature plane trees

Suburb	Street	Site Name	Circa	Description
St Kilda West	Fitzroy St, cnr Beaconsfield Pde		19c,	Triangular road reserve planted with mature <i>Ficus macrophylla</i> x 4 and <i>Lagunaria patersonii</i> x 1 trees. One fig tree very large and visually significant. Basalt memorial (Knox c1906). Possible Aboriginal social significance.
St Kilda West	Beaconsfield Pde, Fitzroy St to Fraser St		C1920	Mostly <i>Phoenix canariensis</i> along beach front. Central median (Cummins Reserve) groups of <i>Lagunaria</i> sp., <i>Metrosideros tomentosa</i> and tea tree. A few <i>Washingtonia filifera</i>
St Kilda West	Beaconsfield Pde,	Catani Gardens	19c, 1920s	Public park with sea frontage with mature trees, band rotunda, gravel paths, concrete park benches and flat metal circular seats around trees, volcanic rock walling on sea front. Building of band rotunda an Australian Bicentennial project, 1988. Mature planting includes <i>Cupressus macrocarpa</i> , <i>Washingtonia filifera</i> on Beaconsfield Pde, avenues of <i>Phoenix canariensis</i> , very large <i>Ficus macrophylla</i> , group of golden privet, small <i>Jubaea chilensis</i> , sandstone war memorial. Introduction of new materials and elements includes new Lister - style timber benches, visually prominent public toilet block.
St Kilda West	Canterbury Rd, cnr Fitzroy St		1920s	Row of <i>Phoenix canariensis</i> associated with rail line
St Kilda West	Fitzroy St, Grey St to Princes St		1920s	North side row of mature elm trees, south side mature plane trees

Suburb	Street	Site Name	Circa	Description
Elwood	Mitford St, between Dickens St & Byron St		C1900-20	Mature plane trees both sides of street
Elwood	Goldsmith St		C1900-20s	Mature plane trees both sides of street
Elwood	Ruskin St, between Dickens St & Canal		C1920s	Mature plane trees both sides of street
Elwood	Broadway St. and Mitford St, & Gordon Ave	EC Mitty Reserve	C1920	Small triangular neighbourhood reserve; open grass area with Area 18 mature plantings of Phoenix canariensis and Platanus sp. x 4. A bed of annuals surrounds the central palm tree
Elwood	Broadway St. and Mitford St,	FL Dawkins Reserve	C1920	Road reserve with large mature plantings of Platanus sp. (also is street) Phoenix canariensis x 6, park of 100 yrs + Brachychiton populneus (one sick or dead, one with possum guard), 100yrs + Melia azederach.
Elwood	Meredith St, between Broadway & Barkly St		1920s	Mature plane trees both sides of street
Elwood	Addison St, between Dickens St & Canal		1920s	Mature plane trees both sides of street
Elwood	Milton St, between Broadway & Barkly St		C1940s	Mature liquidamber trees both sides of street

Suburb	Street	Site Name	Circa	Description
Elwood	Baker St, between Dickens St & Wordsworth St		C1920-30s	Mature plane trees both sides of street
Elwood	Dickens St, between Mitford St & Tennyson St		C1920	Mature plane trees both sides of street
Elwood	Dickens St between Brighton Rd & Tennyson St		1920s	Mature plane trees both sides of street
Elwood	Mitford St, corner Clarke St	Clark Reserve	1920s	Larger reserve mainly grass and mature exotic and native trees, bluestone edged gravel paths, flat metal bench seats, some new play equipment. Some old gums (Eucalyptus cladocalyx) date from c1920s. Note that a large 100 yrs + Brachychiton populneus is on park boundary.
Elwood	Tennyson St, Dickens to Byron St		1920s	Inconsistent trees include mature plane trees and others such as ash and Queensland brush box (Lophostemon confertus)
Elwood	Lindsay St		C1900s	Mature plane trees both sides of street
Elwood	Dickens St		C1900-20	Mature plane trees both sides of street
Elwood	Goldsmith St, between canal & Glenhuntly Rd		1920s+	Mature plane trees both sides of street

Suburb	Street	Site Name	Circa	Description
Elwood	Shelley St, between canal & Glenhuntly Rd		1920s+	Mature plane trees both sides of street
Elwood	Broadway St, between canal & Glenhuntly Rd		1920s+	Mature plane trees both sides of street
Elwood	Shelley St, between Barkly St & Broadway St		1920s+	Mature <i>Metrosideros excelsa</i> trees both sides of street
Elwood	Ruskin St, between Glenhuntly Rd & canal		1920s+	Mature plane trees both sides of street
Elwood	Addison St		1920s+	Mature plane trees both sides of street; some gaps, two mature trees <i>Eucalyptus filicifolia</i>
Elwood	Bluff Ave		1920s+	Both sides of street at south end <i>Lagunaria patersonii</i> then trees street becomes plane trees near Glenhuntly Rd
Elwood	Spray St and Wave St,	WE Dickeson Reserve	1910	Small triangular road reserve with mature <i>Phoenix canariensis</i>

Suburb	Street	Site Name	Circa	Description
Elwood	Shelley St, Barkly St & Ormond Esp	Robinson Reserve	C1920s	Mature Phoenix canariensis & Tamarisk
Elwood	Austin Ave between Mitford St & Tennyson St		C1920s+	Mixed immature & mature plane trees both side of street
Elwood	Poets Gve		C1920s+	Mixed tree species both sides of street; immature & mature plane trees & mature Eucalyptus sp.
Elwood	Daley Ave		C1930s	Mixed immature and mature plane trees & some gaps
Elwood	Mitford St		C1920s	Mature plane trees both sides of street
Elwood	Byron St, between Mitford St & canal		C1920s	Mature plane trees both sides of street
Elwood	Rothsay Ave, between Mitford & Tennyson St		C1920s	Mature plane trees both sides of street
Elwood	Tennyson St, between Byron St & Glenhuntly Rd		C1920s	Mostly mature plane trees both sides of street, some gaps and some younger Lophostemon confertus especially at Glenhuntly Rd end
Elwood	Kendall St		C1930s	Mixed age plane trees with some gaps
Elwood	Burns St		C1930s	Mixed age plane trees with some gaps
Elwood	Heaton St		C1930s	Mature plane trees with some liquidamber at the Tennyson St end

Suburb	Street	Site Name	Circa	Description
Elwood	Tennyson St, Glenhuntly Rd	JT Berkley Reserve	C1920s	Triangular road reserve mainly grass, old Phoenix canariensis x 6, Melia azederach. Newer planting of Melaleuca armillaris inappropriate
Elwood	Brighton Rd		C1920s	Mature Eucalyptus filicifolia in central median, some on service roads. Most service road trees are plane trees.
Elwood	Addison St to Goldsmith St	Elwood Canal	C1920s	Tree species vary in each section of canal reserve. Broadway St to Goldsmith St has Phoenix canariensis and Araucaria heterophylla. Other sections poplars, Cupressus macrocarpa and tamarisk.
Balaclava	Albion St		C1920-30	Metrosideros excelsa (NZ Christmas tree) alternating with Area 20 trees Acmena smithii (lilypilly) both sides of street
Balaclava	Somers St		C1920-30	Mature Celtis occidentalis (nettle tree) on both sides of street
Balaclava	Bothwell St		C1940s	Mature ash (Fraxinus sp.) in grassed centre median reserve
Balaclava	33 Rosmund St, cnr Woodstock St			Small neighbourhood park with mature gum trees such as Eucalyptus citriodora
Balaclava	Westbury Close		1920+	Mature plane trees both sides of street
Balaclava	Carlisle Ave		1920+	Mature plane trees both sides of street
Ripponlea	Glen Eira Rd.	Burnett Grey Gardens	C1900-20s	Public railway gardens adjacent to the Ripponlea Station. Lawn Area 23 Grey garden Ripponlea areas bisected by bitumen paths and plantings of Phoenix Gardens canariensis, Butia capitata and shrubberies of yuccas and grasses. Golden privet hedges line the paths with a number of clipped golden privet

Suburb	Street	Site Name	Circa	Description
				shrubs in the lawn. An intrusive element is the modern aluminium shed, advertised for lease, on the station which impacts on a mature palm and is a visual intrusion on the park.
Ripponlea	Glen Eira Rd, between Brighton Rd & Lyndon St		C1930+	Mature plane trees north side of road; mature liquidambers trees between Brighton south side of road Rd & Lyndon St
Ripponlea	Morres St		C1970s	Mature but recent plantings of Alnus sp (alder) on west side of trees street
Ripponlea	Monkstadt Ave		C1930s	Mature liquidambers both sides of road
Ripponlea	Victoria Ave		C1920-30	Row of Quercus palustris (pin oaks) north side of road; mature trees plane trees south side of road
Ripponlea	Fuller Rd		C1940	Plane trees both sides of road; trees not very large & some gaps
Ripponlea	Erindale Ave		C1930-40s	Mature plane trees both sides of road
Ripponlea	Lyndon St		C1930-40s	Mature plane trees west side of road; younger ash trees east side of road