

City of Cockburn Fire Mitigation Works

Matt Kennewell

Bushfire Risk Management Plan



- The City of Cockburn developed the states first BRMP
- BRMP gave access to grants for fire mitigation
- Identified areas were property/infrastructure interfaces with bushland.
- Assessed sites for level of fire risk to life, property and infrastructure
- Identify environmental values associated with the vegetation at each site
- Select activities needed to alleviate risk and the possible environmental impact associated with each activity
- Work with DFES/staff to determine acceptable treatment
- Quotations vs Budget
- Finalise plan and deliver works
- Review works and reassess sites for mitigation success

Bushfire Risk Management Plan





Stakeholders



- Cockburn residents
- DFES
- Volunteer Fire Brigades
- Contractors
- Media and Communications
- State Government Departments
- Schools and Universities
- Kings Park
- Neighbouring Councils (South West Regional Working Group)

Mitigation Actions



- Educate and inform residents
- Fire break pruning (3.5 wide x 4m high) in November
- Fencing reserves
- Install limestone on fire breaks
- Slashing grasses
- Chemical weed control
- Woody weed removal
- Selective removal of small diameter fuel loads
- Separating ladders fuels
- Controlled burns with mandatory 2 year follow up on weed control



Educate and Inform

Reduces risk on private property





within the City of Cockburn are required by law to comply with the prescribed Fire Control Order here within.

Definitions	
Authorised Officer	A person appointed by the City of Cockburn Chief Executive Officer as an authorised personiofficer to exercise the powers and duties set out in the Local Government Act 1995, Bush Fires Act 1954 and Local Law(s).
Flammable Material	Any dead or dry grass, vegetation, substance, object, thing or material (except living flora including live and/ or habitat standing trees) that may or is likely to catch fire and burn or any other thing deemed by an Authorised Offlicer to be capable of combustion.

time of each year where it is unlawful to set fire to the without a valid Permit to Set Fire To The Blach issued to Authorised Officer. This period normally is from 1 until and including 31 May and from 1 October until including 30 November of any year. This time may including 30 November of any year. This time may need to the prevailing seasonal conditions.

iolitan Region Scheme. This time normally is from 1 ntil and including 30 September. This time may be

1. All property (vacant or developed) - less than 4,047m² To reduce the fire hazard on your land and to comply with the requirements of this Fire Control Order you are required to;

1.1 Have all flammable materials such as dry grass and weeds slashed, mown of trimmed down by other means to a maximum height of 50mm across the entire property for the duration of this Firebreak Time; and 1.2 Remove all dead vegetation.

2. All property (vacant or developed) - 4,047m² or greater

2.1 Construct a firebreak (as defined within section 3 of this order) im inside all external property boundaries, this includes those adjacent to roads, drains, rail reserves and any public open space reserves; and

2.2 Remove all dead vegetation surrounding and over all habitable structures to a radius of 3 metres except living trees, shrubs, maintained grass and gardens

the spread or extension of a fire and to provide suitable access for fire fig vehicles. The standards of a compliant firebreak are as follows;

3.1 A firebreak must be constructed of bare earth, stone, or sealed surfacelear of all flammable materials to create a 3 metre wide trafficable s

oear of an infammation materials to create a 3 metre wice tramicable st.
3.3 Maintained grass may occupy of Febreak;
3.3 Overhanging branches must be pruned to provide a 4 metre vertical it above the full width of the 3 metre fireforeak surface; and
3.4 A frierbeak must be a continuous trafficable surface for a fire flighting clear of any obstructions and must not terminate in a cull-de-sac [deal

Regardless of land size and location, the City of Cockburn or its Authorist

may require you to undertake additional work(s) on your property to impri and/or undertake further works where in the opinion of that Authorised O these works would be conducive to preventing the outbreak and/or the sg 5 Fire Control Order Variations

. Per Control Order Variations.
A variation will be considered where the owner and/or occupiers believe i impractical to meet the compliance requirements of this Fire Control Order Approved structure's occupiers of refereal will not require a variation any However, a friedrank will be required to be installed as close as practical a approved shructure.
If approved, surations will be valid in perpetuity, unless a new variations h

ir approved, serateons will be quite in perpetury, unest a new variation in approved or the property changes ownership. The City of Cocisbum reserves the right to review, amend or revoke an exi-variation in writing at any time. Should a request to vary the Fire Control requirements on your property not be approved in writing, this Fire Control must be complised with a applicable in its entirety.

must be compared with as applicable in the entirety.

Burling the declared Purhibited Bluming Time owners and/or occupiers munderfals any buttor or garden refuse burning activities.

During the declared Restricted Bluming Time only, owners and/or occupie of 1. Apply for a permit to burn the bush for bush fire risk mitigation pumps by following the conditions imposed on a permit to burn as issued by

Authorised Officer.

6.2 In areas zoned rural by the Metropolitan Region Scheme you may un than 1m2 in size, without a permit to burn, subject to the following co 6.2.1 No flammable material (other than that being burned) is to be of the fire at any time while the fire is burning;

of the fire at any time while the fire is burning;
6.2.2 The fire is is between 6pm and 11pm and is completely exting
before michight on the same day;
6.2.3 A least one person is present at the safe of the fire at all times
completely estinguished; and
6.2.4 When there fire is no longer required, the person ensures that th
completely estinguished by the application of water or serfs.

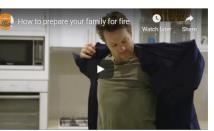
During the Uterstricked Burning Film, owner and/or occupien in erass I under the Metropolitan Region Scheme may burn garden refuse and set f on their land without a permit 'To Set Fire To The Bush'. Burning of the bx be in accordance with all relevant State legislative requirements. Burning of garden refuse in areas not zoned rural shall not be undertaken City of Cockburn, unless approved by an Authorised Officer.

Failing to comply with this Fire Control Order will result in a penalty of up A person in default is also liable whether prosecuted or not to pay the cos-performing the work directed by a City's Authorised Officer. Any owner and/or occupier who engages a contractor to undertake works behalf is responsible to ensure that the works completed meet the require Any Fire Control Order previously published by the City of Cockburn in the

C5 (N) C5 (S) Denis De Young Reserve









Fire Control Orders

Fire Response Plans

DFES Information Kits

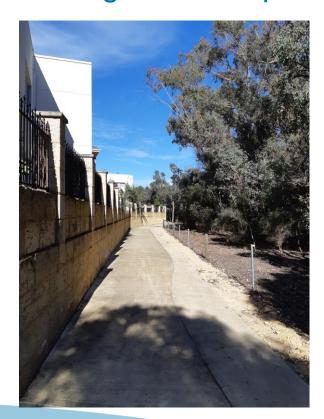
Info Videos

Compliant Firebreaks

• All reserves required firebreaks (3.5 wide x 4m high)

Works to be completed by 1st November and maintained

through to 31st April





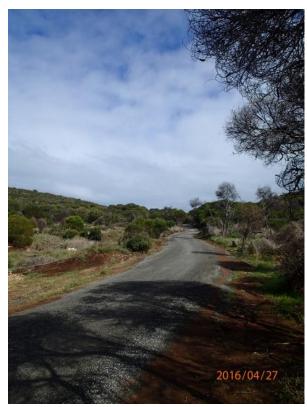




Limestone Firebreaks

- City of Cockburn
 wetlands to waves
- All City managed conservation reserves have limestone firebreaks.
- Provides better access to firefighting vehicles (reduced risk)
- Less maintenance (added benefit reduces dieback spread)







Fencing Reserves



Prevents unauthorised vehicle access thus reducing fire risk





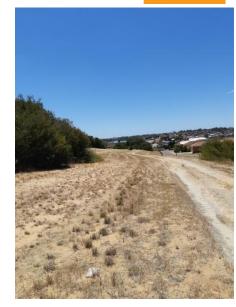


Slashing Grasses

Reduces fuel load access and fire intensity













Chemical Weed Control

City of Cockburn wetlands to waves

Reduces fuel load, removes weeds, improves visual amenity





Bibra Lake



Yangebup Lake

Woody Weed Removal

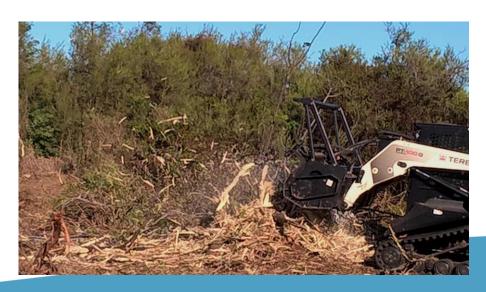
• Reduces fuel load, reduces weeds.











Selective Removal of Vegetation



Thinning, reduces fuel load



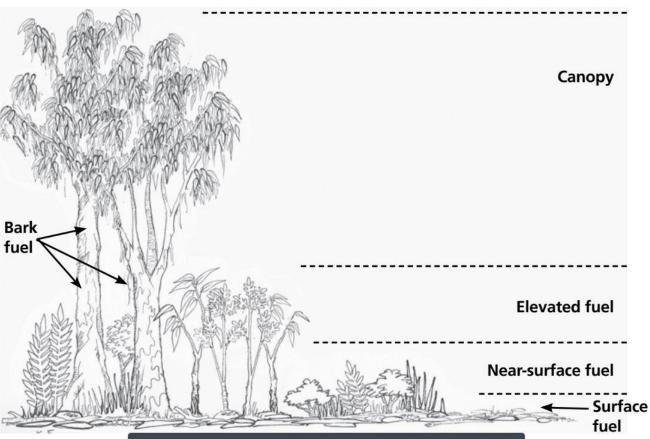


Separating Ladder Fuels

City of Cockburn
wetlands to waves

- Selective removal of middle or lower stories
- Prevent sufficient heat to sustain canopy fire





Controlled Burns



• Reduces fuel load, reduces weeds, improves vegetation condition

• Funding for 2 years weed control.



Initiatives

City of Cockburn
wetlands to waves

- Grass Tree fuel load reduction
- Compare & Contrast Burn and Prune
- Fire promoted flowering and seed germination
- Delayed flowering response from manual.







Initiatives

- Partnership with Kings Park
- Compare different weed events at burn sites

• 20 year trial



Yangebup Lake





Outcome/Conclusions



- Make sure you have a current BRMP to fund and pre-plan works
- Collaboration between stakeholders essential
- Educating and informing community and contractors of environmental and social values for each site so no adverse impacts are experienced
- A integrated delivery of activities needed
- Regular monitoring of activities being delivered
- Be mindful of late seasonal events
- Be willing to try new initiatives

Sometimes nothing helps













Thank you

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cockburn.wa.gov.au







