



# **Bushfire Management Plan**

## **Collinsville and Scottsville**

Scott Hardy  
Manager Natural Resource Management

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## Executive Summary

The purpose of the Collinsville – Scottville community Bushfire Management Plan is to document bushfire hazard and describe how the hazard will be managed over time. This Bushfire Plan is specifically written for the Collinsville – Scottville bushfire Management Stakeholders, but it can also be used to communicate bushfire management and responses to the local community.

The Whitsunday Regional Council and the Queensland State government own a number of lots surrounding the townships of Collinsville and Scottville. As a landowner, Council and the State government need to manage bushfire hazard. The Collinsville – Scottville Bushfire Plan seeks the following outcomes:

- Describe the extent of bushfire hazard.
- Describe the location of fire control lines and fire breaks.
- List the roles and responsibilities for bushfire management.
- List the proposed schedule of bushfire mitigation tasks.

The Council has developed this Community Bushfire Management Plan in consultation with regional land management stakeholders. The information contained in this Bushfire Plan is based on data collected from stakeholders over recent years.

## Acknowledgements

The Whitsunday Regional Council would like to thank the following stakeholders who have contributed to this Bushfire Management Plan;

- Queensland Fire and Emergency Services (QFES)
- Queensland Department of Natural Resources and Mines

## Document Control

Title	Collinsville – Scottville Bushfire Management Plan
Council Work Unit	Natural Resource Management
Contact Officer	Scott Hardy
Email	<a href="mailto:info@whitsundayrc.qld.gov.au">info@whitsundayrc.qld.gov.au</a>
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# 1. Introduction

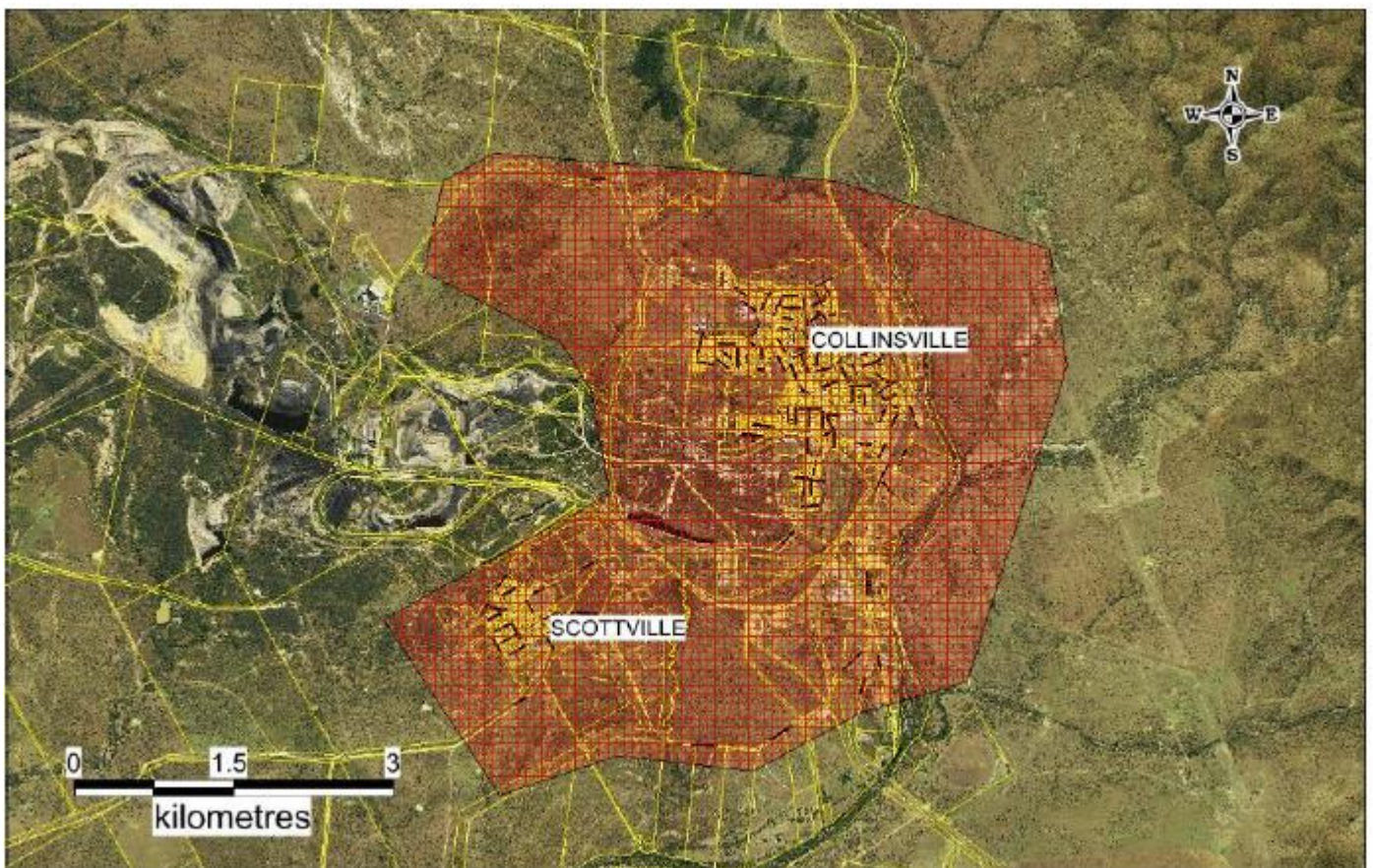
The Collinsville and Scottville area has been identified as having a high bushfire hazard due to the vegetation type, slope and aspect. The two townships and the surrounding land has a moderate to high risk for loss of life and/or property if the bushfire hazard is not managed appropriately.

In 2018, the Collinsville Fire Management Group supported the development of a fire management plan for the Collinsville-Scottville urban area. Collinsville and Scottville is surrounded by Council reserves and Queensland government Unallocated State Land (USL) and private land (Figure 1).

The purpose of this community Bushfire Management Plan is to identify the actions required to reduce bushfire hazard in the Collinsville-Scottville township and surrounding area. The objectives of this Plan include;

- Identify where fire lines are required to protect life and property from fire,
- Maintain an ecologically appropriate controlled burn program,
- Improve community awareness,
- Maintain coordination with landowners,
- Implement a maintenance program to manage bushfire hazard and risk.

It is envisaged that this Community Bushfire Management Plan will be used as a communication tool to inform stakeholders and the community of the bushfire hazard surrounding Collinsville and Scottville and how it will be managed.

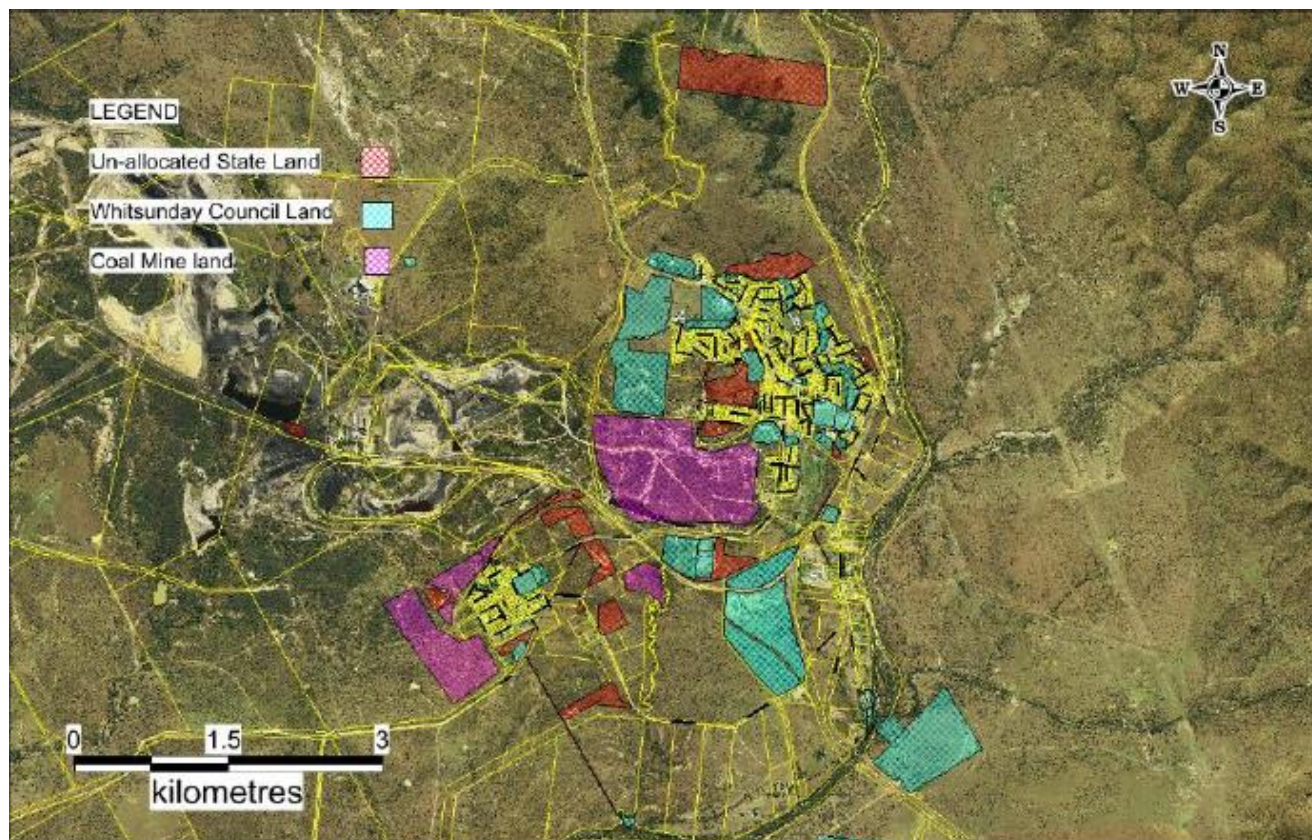


**Figure 1.** The application area for the Collinsville-Scottville Bushfire Management Plan.

## 2. Background

### 2.1 Land tenure and ownership

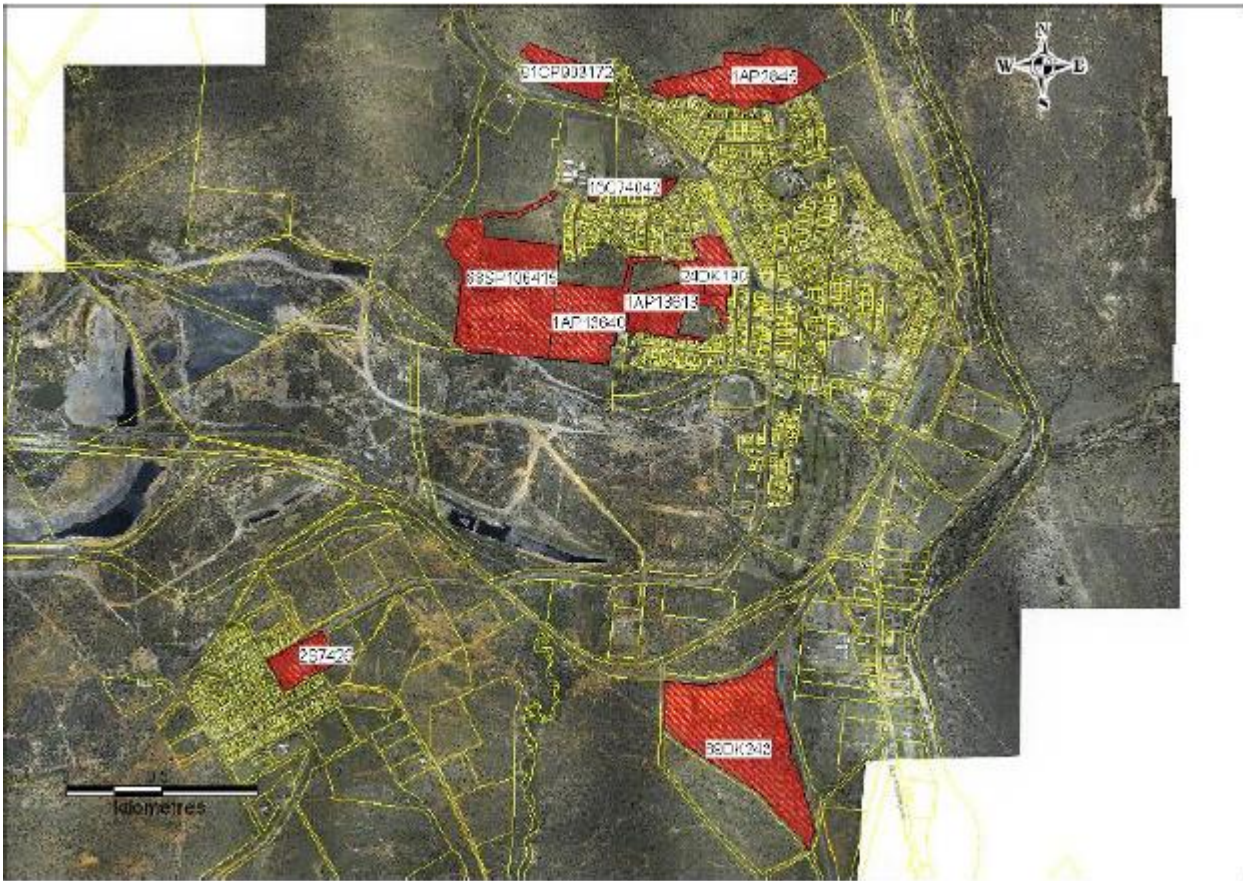
There is a large proportion of State and Council owned land in and surrounding the townships of Collinsville and Scottville. The location of the State and Council land in Collinsville is shown in Figure 2. The list of public owned lots are listed in table 1.



**Figure 2.** Showing the State Land (Red), Council land (Blue) and selected coal mine owned land (Pink) in Collinsville and Scottville.

**Table 1.** The Collinsville and Scottville public lots of land.

Suburb	Lot Description	Lot No.
Collinsville	Water Tower	81CP903172
	USL – Town North	1AP2845
	USL – Garrick Street	1ap13613
	Old Landfill	88SP10646415
	Garrick Street Hill	24DK190
	Walker Street	16C74042
	Corduoy Creek Road	69DK243
	Fifth Avenue	1S7424/ 2S7426



**Figure 3.** The public lots and their lot numbers in Collinsville and Scottville.

## 2.2 Site description

### 2.2.1 Geology, landform and soils

The geology of the Collinsville and Scottville area has an influence on the local topography (Figure 4). The higher hills are predominantly volcanic with the lower areas predominately sedimentary rocks.



**Figure 4.** Showing the geology of the Collinsville and Scottville area (Pvcz = Lizzie Creek volcanics , Pbc = Collinsville coal measures).

The area surrounding Collinsville and Scottville mainly consists of low to high rolling hills (Figure 5). The townships of Collinsville and Scottville have an elevation of approximately 170 to 200m above sea level. Mount Devlin to the north of Collinsville has an elevation of 487m. The undulating hills to the west and south of the area range in elevation of 220 to 330m above sea level.



**Figure 5.** Showing the topography surrounding Collinsville.

### 2.2.2 Vegetation

The vegetation of the Collinsville and Scottville area has been mapped by the State government. The regional ecosystem map for the Collinsville and Scottville area can be found in the appendix of this report. The geology, fertility of the soils and rainfall patterns influence the vegetation of the Collinsville and Scottville area. The Collinsville area is in the Northern Brigalow Belt Bioregion. The dominant vegetation surrounding the Collinsville area is open eucalypt forest and woodland. The dominant regional ecosystems are:

- Regional ecosystem: RE 11.12.1 - *Eucalyptus crebra* woodland on igneous rocks
- Regional ecosystem: RE 11.12.2 - *Eucalyptus melanophloia* woodland on igneous rocks
- Regional ecosystem: RE 11.11.9 - *Eucalyptus populnea* or *E. brownii* woodland on deformed and metamorphosed sediments and interbedded volcanics

There are small pockets of declared weeds such as Chinese apple (*Ziziphus mauritiana*) and Leucaena (*Leucaena leucocephala*).

## 2.3 Bushfire legislation and policy

### 2.3.1 Australia and Queensland

All levels of government have a responsibility and role in bushfire management. In 2014, the Council of Australian Governments approved the National Bushfire Management Policy Statement (National Forest Fire Management Group, 2014). The National Policy identifies Local government and other landholders having an important role in bushfire management and planning. The National Bushfire Policy identifies four main strategic objectives and 14 bushfire management goals. The four strategic National bushfire management objectives are:

- Effectively managing the land with fire
- Involved and capable communities
- Strong land, fire and emergency partnerships and capability
- Actively and adaptively managing risk

There is a legislative requirement under Common Law and the *Queensland Fire and Emergency Services Act 1990* for Local Government as owners and occupiers of land to prevent fires escaping from their land and damaging property (Tran and Peacock, 2002). Councils have an obligation to manage their land responsibly to prevent the loss of life or property and reduce the 'human' impacts of bushfires. Council is also required however to achieve this and still maintain their obligations under other legislation. Obligations under the *Nature Conservation Act 1992* for example require local authorities to protect and conserve rare or threatened species, biodiversity and ecological processes.

According to Tran and Peacock (2002), the challenge for Council is to deliver management actions which will protect and conserve simultaneously.

The *Fire and Emergency Services Act 1990* is the principle legislation that deals with lighting fires in the open in Queensland. The Act makes it illegal to light a fire without a 'Permit to Light Fire' issued by a fire warden.

### 2.3.2 Whitsunday Regional Council

The Whitsunday Regional Council developed a Bushfire Management Policy and Bushfire Management Plan in 2018. The purpose of the Policy is to define Council's intention in bushfire management, planning and on-ground actions. The purpose of the Council's Bushfire Plan is to identify high risk Council lots for bushfire risk and outline a program of works to better manage bushfire risk on Council managed lots.

The Whitsunday Regional Council has developed a local law which includes the regulation of fires.

## 2.4 Bushfire hazard and risk

### 2.4.1 Bushfire hazard

Bushfire hazard refers to the conditions which could support the presence of a fire. There are a number of methods that can be used to assess bushfire hazard. One of the most commonly used bushfire hazard assessment tool is documented in the Queensland State Planning Policy 1/03.

According to Risk Frontiers (2011) the Queensland Fire and Rescue Service have adapted the SPP 1/03 bushfire hazard methodology and the Interface Zone (I Zone) methodology to identify bushfire hazard areas. The I-Zone is where the urban-rural residential land use meet flammable vegetation (Risk Frontiers, 2011).

The Queensland State Planning Policy bushfire hazard process involves the assessment of vegetation, slope and aspect. Scores are allocated to vegetation, slope and aspect. The bushfire attribute scores are then added to determine the total hazard score. The vegetation communities hazard assessment is shown in table 2, the slope assessment is shown in table 3 and the aspect assessment is shown in table 4. The classification of bushfire hazard is shown in table 5.



**Table 2.** Vegetation communities assessment table used to determine vegetation hazard score.

Vegetation communities <sup>1</sup>	Fire behaviour	Hazard score
Wet sclerophyll forest, tall eucalypts (>30 m), with grass and mixed shrub understorey.	Infrequent fires under severe conditions, flame lengths may exceed 40 m, floating embers attack structures for 1 hour, radiant heat and direct flame are destructive for 30 minutes.	10
Paperbark heath and swamps, eucalypt forest with dry-shrub ladder fuels.	Fire intensity depends on fuel accumulation, but can be severe, with flame lengths to 20 m, spot fires frequent across firebreaks, radiant heat and direct flame for 15 minutes.	8
Grassy eucalypt and acacia forest, exotic pine plantations, cypress pine forests, wallum heath.	Fire intensity may be severe with flame lengths to 20 m, but less attack from embers.	6
Native grasslands (ungrazed), open woodlands, canefields.	Fast moving fires, available to fire annually to 4 years. Usually no ember attack, radiant heat for >10 m, duration <2 minutes.	5
Intact acacia forests, with light grass to leaf litter, disturbed rainforest.	Fires infrequent, usually burn only under severe conditions, relatively slow fires, usually little ember attack.	4
Orchards, farmlands, kikuyu pastures.	Fires very infrequent, slow moving, may be difficult to extinguish, frequent fire breaks.	2
Grazed grasslands, slashed grass.	Grazing reduces intensity and rate of spread of fire, duration <2 minutes.	2
Desert lands (sparse fuels), mowed grass.	Gaps in fuel, usually slow fire spread.	1
Intact rainforest, mangrove forest, intact riverine rainforest.	Virtually fireproof.	0

**Table 3.** The slope assessment table used to determine the slope hazard score.

Slope	Hazard score
Gorges and mountains (>30%)	5
Steep Hills (>20% to 30%)	4
Rolling Hills (>10% to 20%)	3
Undulating (>5% to 10%)	2
Plain (0% to 5%)	1

**Table 4.** The aspect assessment table used to determine the aspect hazard score.

Aspect	Hazard score
North to North-West	3.5
North-West to West	3
West to South	2
North to East	1
East to South and all land under 5% slope	0

**Table 5.** The determination of bushfire hazard using the Queensland SPP 1/03 system.

Total hazard score	Severity of bushfire hazard
13 or greater	High <sup>45</sup>
6 to 12.5	Medium
1 to 5.5	Low

Fuel load is a main contributor to bushfire hazard (Middelmann, 2007). There are a number of methods used to estimate, measure and assess fuel loads. Hines *et al.* (2010) have developed a system of measuring forest fuel loads in Victoria. The method developed by Hines *et al.*, (2010) for estimating fuel loads is based on separating the forest into fuel layers and then estimating or measuring the potential fuel within each of these layers. The amount of fuel contained in these layers is measured in terms of tonnes per hectare.

The Queensland Fire Emergency Service (QFES) have produced bushfire hazard rating maps for Queensland. Bushfire hazard is rated as either low, medium or high based on vegetation type, aspect, topography and climate. The QFES bushfire hazard rating maps are usually produced at a scale of 1:250,000 or 1:100,000. Bushfire hazard areas rated as low on the QFES maps mostly relate to rainforest areas, while high risk areas relate to Eucalypt and wattle areas. The bushfire hazard maps can be a useful guide to bushfire hazard and the likely risk of bushfire occurring in a locality. However, these bushfire hazard maps may not be accurate on properties less than 20ha. Land with a high or medium bushfire hazard rating should have some bushfire management plan or process in place.

#### 2.4.2 Bushfire risk

Bushfire risk refers to the likely occurrence or frequency of a bushfire. Middlemann (2007) states that “the likelihood of bushfire hazard can be summarised in terms of the probability of a fire arriving at a point in the landscape and the intensity of the fire at that point “. Risk can be increased due to a number of factors including a high bushfire hazard and proximity to ignition sources such as roadsides and populated areas. Bushfire planning and mitigation measures can reduce bushfire hazard and risk. Local governments are involved in bushfire risk reduction measures such as the development of local laws regulating fires, development planning, development of disaster management plans and implementation of bushfire mitigation measures (Middlemann, 2010).

There are a number of methods used to measure risk. The NSW Rural Fire Service (2008) have developed a matrix to describe bushfire risk (Figure 6). The NSW Rural Fire Service risk matrix requires the determination of the likelihood of a bushfire occurring and the likely consequences.

Likelihood \ Consequence	Consequence			
	Minor	Moderate	Major	Catastrophic
Almost certain	High	Very High	Extreme	Extreme
Likely	Medium	High	Very High	Extreme
Possible	Low	Medium	High	Very High
Unlikely	Low	Low	Medium	High

**Figure 6.** The determination of bushfire risk (NSW Rural Fire Service 2008).

The likelihood of a bushfire occurring will depend largely on the bushfire hazard. The consequence of a bushfire occurring at a given location will depend on the environmental values and development present (NSW Rural Fire Service, 2008).

### 2.4.3 Collinsville and Scottville bushfire hazard

The Queensland State government have mapped the bushfire hazard in the Collinsville and Scottville area (Figure 7). The upland areas north and west of Collinsville have been mapped as having high bushfire hazard.

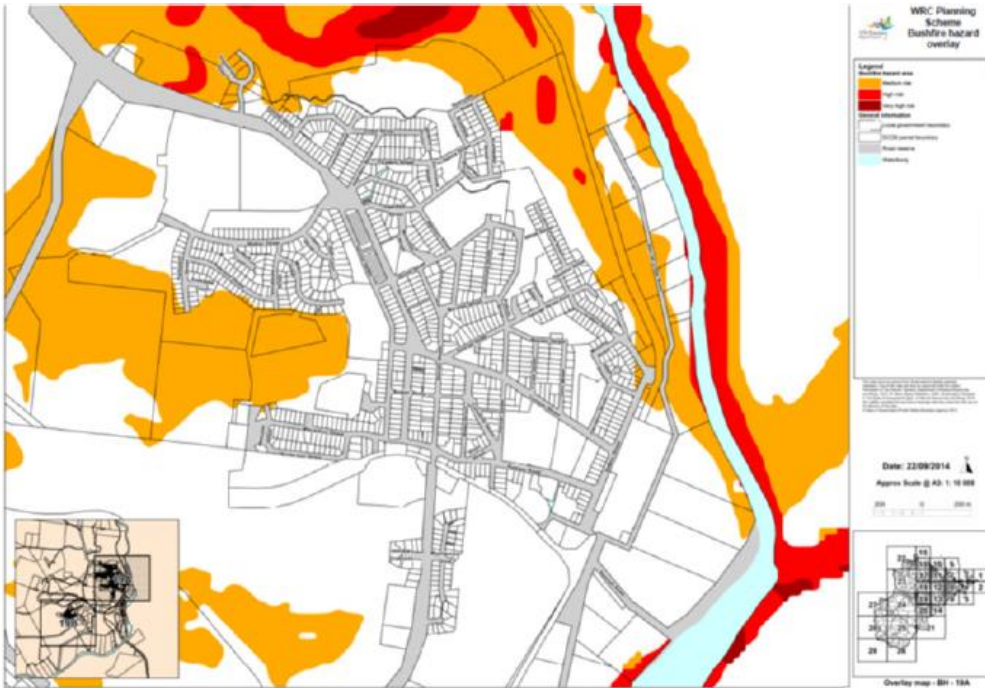


Figure 7. Showing the bushfire hazard in the Collinsville area.

## 2.5 Bushfire management guidelines

### 2.5.1 Bushfire guidelines for regional ecosystems

The regional ecosystem characteristics can provide information which can guide bushfire management and planning. The Whitsunday Regional Council is partially included in the Central Queensland Coast and Northern Brigalow Belt bioregions. There are 83 individual regional ecosystems in the Central Queensland Coast bioregion and 172 regional ecosystems found in the Northern Brigalow Belt bioregion.

The type of vegetation community, its fire requirements and hazard can be used for bushfire planning. Bushfire management advice for a selected number of regional ecosystems are listed in table 6. The bushfire management advice provided by the Queensland State government for each regional ecosystem is found at: <https://publications.qld.gov.au/dataset/redd/resource/c77196df-7af9-4c09-ac88-256867c39806>

Table 6. Showing the bushfire management advice for selected regional ecosystems.

Code	Bioregion	RE	Description	Fire Management Advice
111201	BRB	11.12.1	Eucalyptus Crebra Woodland on Igneous Rocks	SEASON: Late wet to early dry season when there is good soil moisture. Early storm season or after good spring rains. INTENSITY: Various. b, c: Various. Mainly low, but also moderate. INTERVAL: 6- 15 years (shorter intervals north of bioregion 5 - 10 years). b, c: >3years. STRATEGY: Burn less than 30% in any year. Burn under conditions of good soil moisture and when plants are actively growing. All shrubby areas will carry fire after a good season. b, c: Low to moderate burns can help limit the spread of fires. Burn less than 30% in any year. Burn under conditions of good soil moisture and when plants are actively growing. ISSUES: Management of this fire tolerant vegetation type should be based on maintaining vegetation composition, structural diversity, animal habitats and preventing extensive wildfire. Maintaining a fire mosaic will ensure protection of habitat and mitigate against wildfires. Planned burns have traditionally been carried out in the winter dry season; further research required. b, c: Fire can be used to control weed invasions, although there are also risks of promoting weeds.

### 2.5.2 Other regional fire management guidelines

The Reef Catchments Natural Resource Management Group together with the Clarke Connors Range Bush Fire Consortium developed fire management guidelines for the Central Queensland coast region (Reef Catchments, 2009). The fire guidelines have been developed for 12 landscape types. For each of the 12 landscape types recommendations are made for fire frequency, fire intensity, season and whether mosaic burns are required.

The purpose of the guidelines is to reduce unplanned burns (wild fires). The landscape types and the recommended guidelines are shown in table 7.

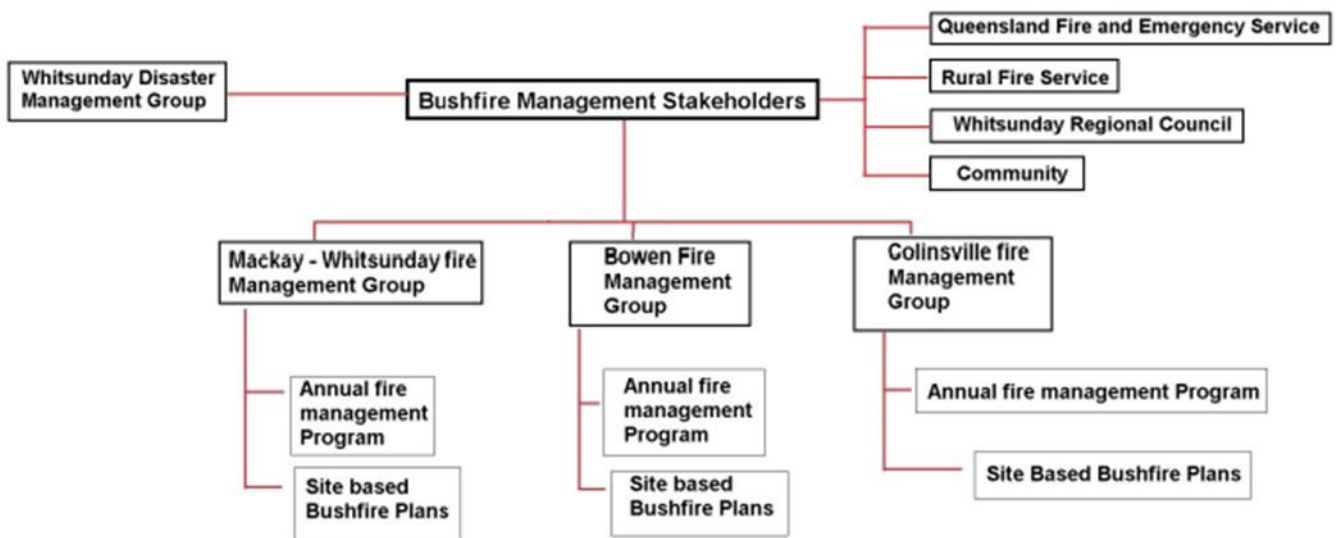
**Table 7.** Clarke - Connors range fire management guidelines.

Landscape Type	Fire Frequency	Fire Intensity	Preferred Season for Hazard Reduction	Mosaic Burning
Mangroves and Estuaries	Not burnt	Nil	Nil	No
Beaches and Foreshores	Not burnt	Nil	Nil	No
Hind Dunes	Not burnt	Nil	Nil	No
Riverine and Wetlands	Not burnt	Nil	Nil	No
Alluvial Flat Country	Every 5 years	Medium	Winter	50%
Grassy Woodlands and Open Forests	Every 5 years	Medium	Winter	50%
Tall Wet Eucalypt Forests	Every 3-5 years	Medium	Winter	50%
Eucalypt Forest and Woodlands on Hills	Every 5 years	Medium	Winter	25%
Rainforest and Vine Thickets	Not burnt	Nil	Nil	No
Island and Rocky Headlands	Every 3-5 years	Medium	Winter	50%

The Queensland State government have developed Planned Burn Guidelines for Central Queensland Coast Bioregion of Queensland (DNPRSR, 2012). The planned burn guidelines are used to plan and implement prescribed burns in National Parks and State land. The State government guidelines are also applicable to Council owned and managed bushland lots.

### 2.6 Whitsunday Bushfire management planning framework

The bushfire management and planning structure and workflow between organisations is reflected in figure 8. The Whitsunday Regional Council has a Bushfire Management Policy and a Bushfire Management Plan to guide the management of bushfire hazard and risk on Council managed lots.



**Figure 8.** The bushfire management and planning framework.

## 2.7 Bushfire mitigation and management strategies

There are a number of strategies that can be undertaken to reduce bushfire hazard and risk. Table 8 lists the bushfire risk factors and some of the mitigation measures that can be used to reduce the occurrence of bushfires.

**Table 8.** Common bushfire mitigation strategies.

Bushfire Factor	Mitigation Strategy or Measure
Litter build up from Eucalypt vegetation communities	<ul style="list-style-type: none"> <li>Obtain a permit to light fire from the local fire warden to reduce fuel loads.</li> <li>Liaise with a local Rural Fire Brigade to undertake a fuel reduction burn. Subsequent burns may need to be conducted every 3 years.</li> <li>Clear juvenile gum tree samplings from areas near the house and property.</li> <li>Gum trees (such as Iron barks and Blue gums) should be removed from within 30 m of the house and properties. This may require an application to Council for permission. If in doubt contact the Council for advice.</li> </ul>
Grass build up	<ul style="list-style-type: none"> <li>Grass species such as Guinea grass (<i>Megathyrsus maximus</i>) respond well to fire. This species needs to be chemically controlled, kept short through mowing or slashing, or grazed.</li> <li>Revegetate areas with rainforest species to shade out grass and therefore reduce fuel loads.</li> <li>Grass should be kept to a minimal height around houses and property using mowing, brush cutting or use of approved herbicides depending on site conditions.</li> <li>Establish separation zones between buildings and grassy fuel by installing hard areas eg paving and gravel etc.</li> </ul>
Aspect	<ul style="list-style-type: none"> <li>Northerly aspects are worse for fires. The siting or positioning of houses on a property should consider aspect.</li> <li>The head of gullies should also be avoided</li> <li>East to south facing slopes generally have a low hazard rating.</li> </ul>
Slope	<ul style="list-style-type: none"> <li>Updraughts assist fire movement upslope. There should be a sufficient distance down slope of houses and properties that are free of fire prone vegetation.</li> <li>Slopes above 30% have a higher hazard score opposed to flat to undulating land.</li> <li>Installation of hard areas of gravel and paving may be necessary.</li> <li>To reduce erosion on steep slopes, these areas could be revegetated using rainforest shrubs or low growing grasses that are easily controlled and are less flammable.</li> </ul>
Climate	<ul style="list-style-type: none"> <li>Hot dry climates assist fire. Beware of climatic conditions that increase fire risk severity such as the dry season in the Whitsunday's, especially between the months of July and December.</li> </ul>
Proximity to land uses that use fire	<ul style="list-style-type: none"> <li>Fire breaks could be used to reduce spread of fire, provide access for fire fighters, a secure line from which to burn from or back burn from.</li> <li>Sugarcane land has a moderate to high bushfire risk</li> </ul>
Vegetation communities that have a high fire risk	<ul style="list-style-type: none"> <li>Fire breaks could be used to reduce the spread of fire. The SPP recommends that perimeter roads be constructed that are cleared for 20 m AND comply with local government standards.</li> <li>Fire maintenance trails should only be accepted if it is not practicable to provide firebreaks in the form of a road due to topographic conditions or vegetation constraints.</li> <li>The construction of the fire breaks should consider plants protected under the <i>Nature Conservation Act (1992)</i> or communities protected under the Vegetation Management legislation.</li> <li>Site the house in the lowest risk area on the property.</li> <li>For lots greater than 2500m<sup>2</sup>, buildings and structures should be set back from hazardous vegetation by at least 1.5 times the height of the canopy vegetation (particularly if they are Eucalypt) or a minimum of 10 m.</li> <li>Retention of rainforest in drainage lines and creeks will assist in reducing bushfire risk.</li> <li>Design subdivisions without cul-de-sacs and provide access for a conventional drive vehicle (eg fire engine).</li> </ul>

## 2.8 Previous bushfire management

The Whitsunday Regional Council in consultation with Queensland Fire and Emergency Services (QFES) in Collinsville have identified and maintained fire breaks or fire control lines around the Collinsville and Scottville communities. This Bushfire Plan is the first formal Bushfire Plan for the Collinsville – Scottville area.

The QFES and local rural fire brigade conduct planned burns on public land in the Collinsville and Scottville area when the conditions have been suitable. The following is a brief summary of large planned and un-planned burns in the Collinsville – Scottville area:

- 2010 - large wildfire surrounding Collinsville.

## 3. Management Plan

### 3.1 Bushfire Plan goals

The goals of this bushfire management plan are:

- To protect life and property as a priority then ensure the bushfire management practises maximise biodiversity values.
- To ensure all stakeholders support a common bushfire management direction.
- To pro-actively manage the bushfire hazard surrounding Collinsville and Scottville.
- To develop and maintain good relationships between the stakeholders.

### 3.2 Stakeholder general roles and responsibilities

The general roles and responsibilities for bushfire management, planning and mitigation are summarised in table 9.

**Table 9.** The main tasks for each stakeholder.

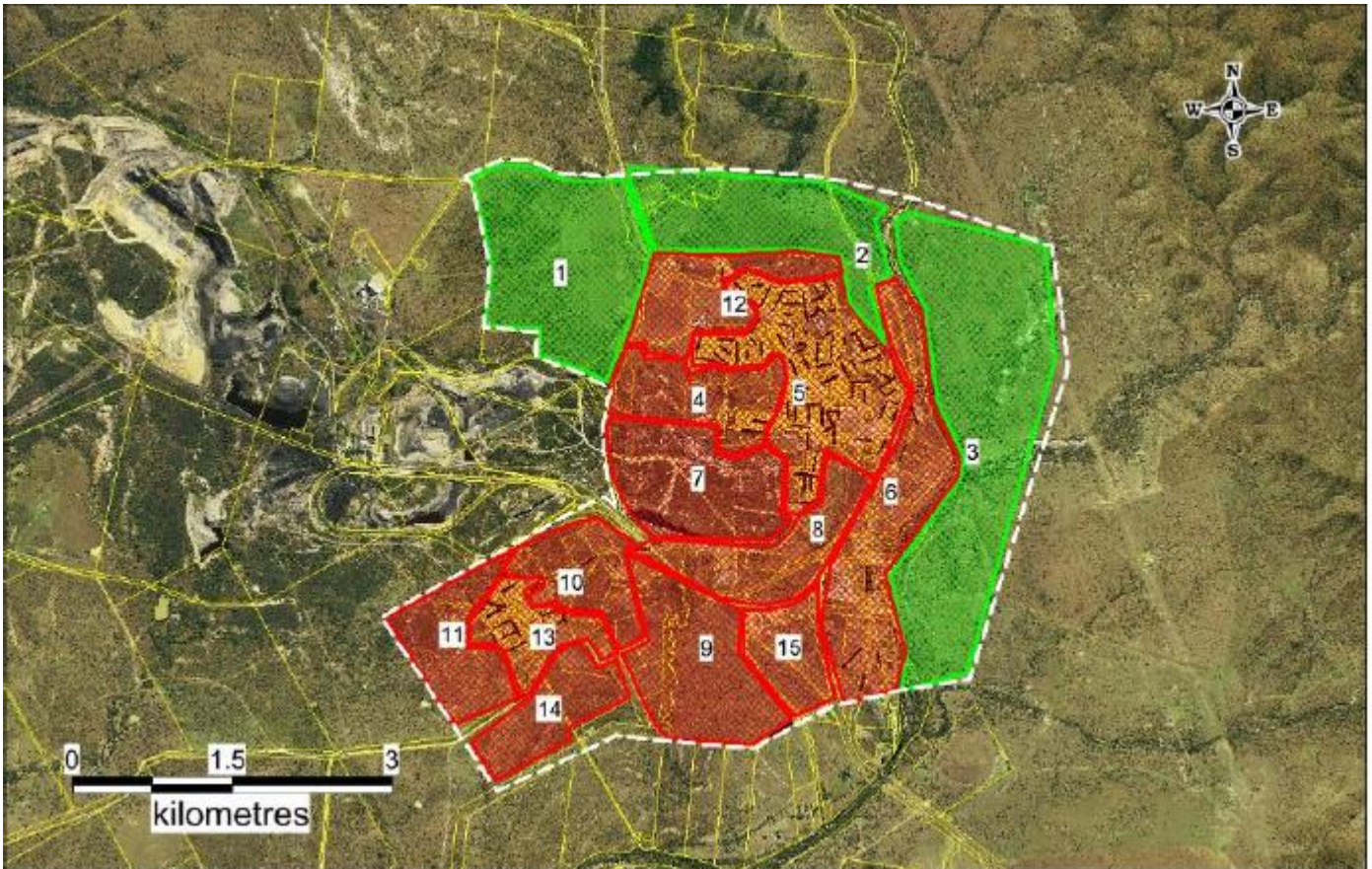
Task	Council	Rural Fire	QFRS	Progress Association	Community
Legal control of the fire	(landowner)		✓		(Landowner)
Conduct hazard reduction burns		✓			
Applying for permits	✓				
Supervising the hazard reduction burn		✓			
Informing the community	✓	✓		✓	
Monitoring fuel loads		✓			
Maintaining fire breaks	✓				
Developing and updating the bushfire plan	✓	✓	✓		
Reporting hazard reduction burns		✓			
Regulating and control of illegal dumping	✓				✓
Manage accumulation of green waste	✓				✓

### 3.3 Bushfire management areas

The landscape of the Collinsville and Scottville area needs to be prioritised in terms of bushfire management and planning. Areas close to residential areas need a higher level of monitoring and fuel management than areas further away. The Victorian state government has developed a system of prioritising bushfire management activities (DSE, 2012). The Victorian government have developed fire management zones as a means of prioritising land areas for bushfire management:

- APZ – Asset Protection zone - Areas close to residential areas – high priority for management.
- BMZ – Bushfire Moderation zone – aim to achieve asset protection and achieve some ecological outcomes.
- LMZ - Landscape management zone – planned burns are primarily undertaken for fuel reduction to maintain ecological processes.
- PBEZ - Planned burning exclusion zone – no fire permitted.

The Collinsville and Scottville township areas can be categorised as “Asset Protection zone”. The proposed fire management areas and the allocated management zone for Collinsville and Scottville area are shown in figure 9. The fire breaks and fire control lines are found in the appendix of this report.



**Figure 9.** The fire management areas and management zones (Red = Asset Protection Zone (APZ) and Green = Bushfire moderation zone (BMZ)).

### 3.4 Hazard reduction burning frequencies and methods

The prescribed burn program for Collinsville and Scottville area will be programmed around the site vegetation, seasonal fuel load and timed for optimum climatic conditions. The timing of prescribed burns will be based on recommendations as given at the time of annual hazard assessments. The frequency of prescribed burns will be guided by the recommendations set out in “Fire Management Guidelines” by Reef Catchments 2009, recommendations from the Queensland government and from site specific annual fuel load assessments.

The fire management areas will also be used to determine hazard reduction burn frequencies. The proposed planned burn frequencies for each vegetation type is shown in table 10. The frequency of hazard reduction burns for the Collinsville and Scottville will be every 2 to 5 years.

**Table 10.** Vegetation communities and hazard reduction burn frequencies.

Vegetation Community	RE	Hazard Reduction Burn Frequency	Fire Management Areas
Eucalyptus woodland on hills	11.12.1	SEASON: Any time providing sufficient soil moisture is available. INTENSITY: Moderate. INTERVAL: 3-4 years. STRATEGY: Retain at least 20% unburnt in any given year	1,2 and 3

### 3.5 Schedule of bushfire management and mitigation tasks

The schedule of bushfire management and maintenance tasks is summarised in table 11.

No.	Task	Who is Responsible	Timing
1	Assess fuel loads	QFES	May
2	Develop an annual fire plan	QFES (Collinsville Fire Group)	June
3	Approve the annual fire plan	QFES and QDNRME	June
4	Slash fire lines/ fire breaks	WRC	May and December
5	Inspect conditions of fire lines	WRC and QFES	May
6	Earthworks for fire lines/ breaks	WRC	As required
7	Coordinate planned burns	QFES and QDNRME	As per approved plan
8	Community awareness	WRC	
9	Seeking fire permit	QDNRME and WRC	As per approved plan

The schedule of planned burns for the various fire management areas are shown in table 12.

**Table 12.** The proposed timing of future planned burns for Collinsville and Scottville management areas (Guide only).

Fire Management Area	Zone	2019	2020	2021	2022	2023	2024	2025	2026
1	BPZ								
2	BPZ								
3	BPZ								
4	APZ								
5	APZ								
6	APZ								
7	APZ								
8	APZ								
9	APZ								
10	APZ								
11	APZ								
12	APZ								
13	APZ								
14	APZ								
15	APZ								

The Council and stakeholders have developed a number of firebreaks surrounding Collinsville and Scottville. The fire breaks or control lines are predominately developed on public land. The list of fire breaks is shown in table 13. The location of the fire breaks are shown in the appendix.

**Table 13.** The Collinsville-Scottville fire breaks and control lines.

Fire Break	Location	Lot on Plan	Tenure	Length (m)
Break A	Drake Street	1AP2845	Unallocated State Land	1,150m
Break B	Scartwater Street	1DK265	Freehold – Private	460m
Break C	White Street	1DK265	Freehold – Private	490m
Break D	MacArthur Street	1AP13613	Unallocated State Land	450m
Break E	Miller Street	2AP13613	Freehold – Private Land	300m
Break F	Peterson Street	89SP232119	Freehold – Private Land	440m
Break G	Parkinson Street	89SP232119	Freehold – Private Land	360m



## 4. Conclusion

The Bushfire Management Plan for Collinsville and Scottville area has been developed to document stakeholder responsibilities, guide mitigation measures and communicate the main bushfire priorities. In 2018, the Collinsville Fire Group supported the development of a Fire Management Plan for the Collinsville-Scottville urban area.

The intention of the Bushfire Plan is to enable bushfire management mitigation to occur under agreed conditions and to maximise community safety whilst recognising the importance of the reserve's ecological values.

## 5. References

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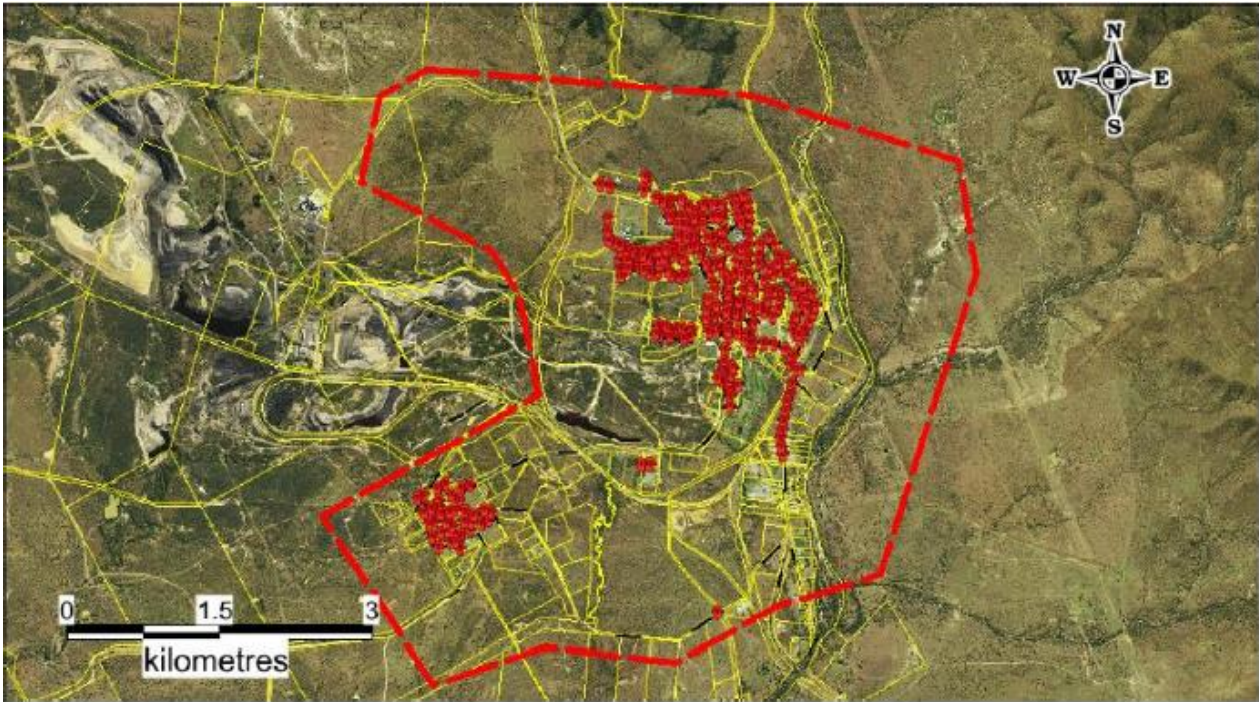
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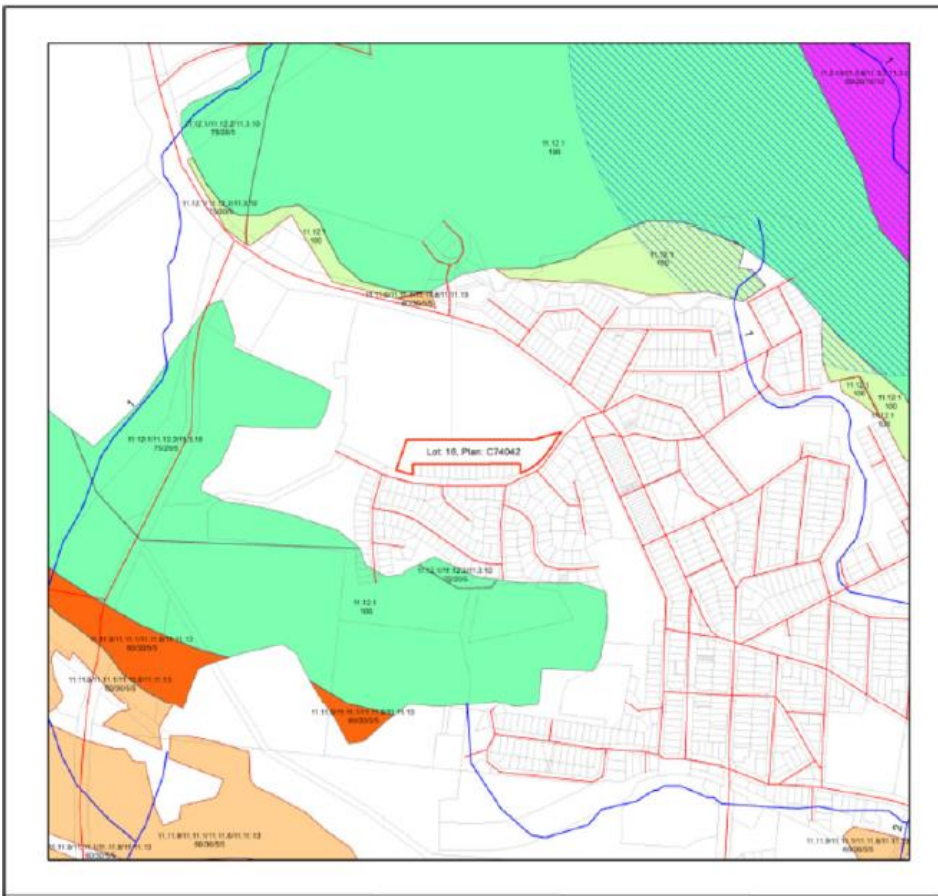
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# 6. Appendix

## 6.1 Hydrant map



## 6.2 Regional Ecosystem map



### Vegetation Management Supporting Map

#### Legend

- Lot and Plan
- Category A or B area containing endangered regional ecosystems
- Category A or B area containing of concern regional ecosystems
- Category A or B area that is a least concern regional ecosystem
- Category A or B area under Section 23AH  
These areas are edged in yellow and filled with the remnant RE Status
- Category C area containing endangered regional ecosystems
- Category C area containing of concern regional ecosystems
- Category C area that is a least concern regional ecosystem
- Category C area under Section 23AH  
These areas are edged in purple and filled with the remnant RE Status
- Map Remnant
- Water
- Wetland on the vegetation management wetlands map
- Essential habitat on the essential habitat map
- Essential habitat species record
- Watercourses and drainage features on the vegetation management watercourse and drainage features map  
(Stream order shown as black number against stream where available)
- Roads
- National Parks, State Forest and other reserves
- Cadastral line
- Property boundaries shown are provided as a locational aid only



N



This product is projected into:  
GDA 1994 MGA Zone 55

Labels for Essential Habitat are centred on the area of enquiry.

Regional ecosystem Inwork has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/- 100 metres.

#### Disclaimer:

While every care is taken to ensure the accuracy of this product, the Department of Natural Resources, Mines and Energy makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

Additional information may be required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: [www.dnrme.qld.gov.au](http://www.dnrme.qld.gov.au) or contact the Department of Natural Resources, Mines and Energy.

Digital data for the vegetation management watercourse and drainage feature map, vegetation management wetlands map, essential habitat map and the vegetation management remnant and regional ecosystem map are available from the Queensland Spatial Portal at: <http://www.information.qld.gov.au/>

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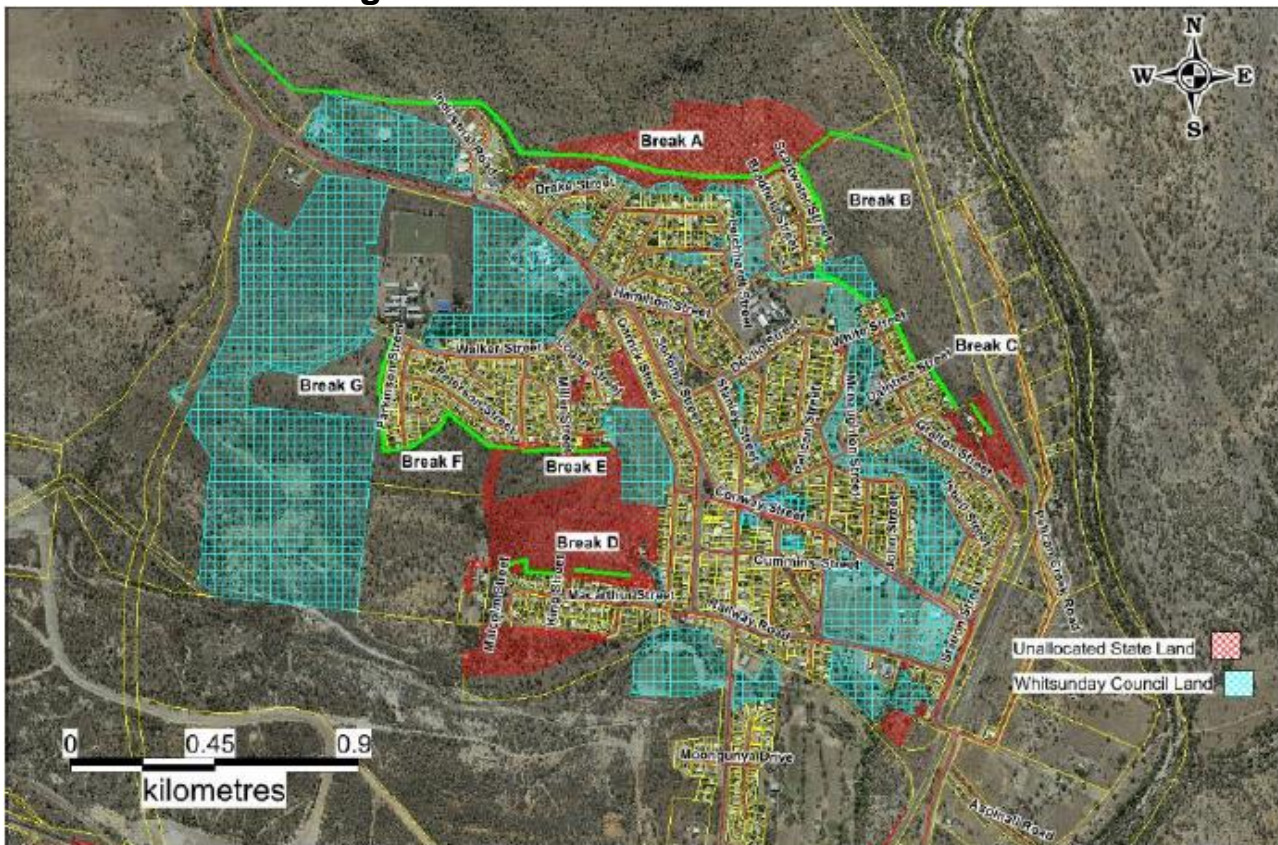
### 6.3 Collinsville and Scottville bushfire hazard mapping



**Notes:**

- Red = High bushfire hazard
- Orange = Medium bushfire hazard

## 6.4 Bushfire management control lines



## 6.5 Objectives for bushfire hazard reduction burning

Source: NSW Rural Fire Service

[www.rfs.nsw.gov.au](http://www.rfs.nsw.gov.au)

A successful low intensity hazard reduction burn will reduce fuel load so that it creates a safe defensible area around an asset. It should also minimise the impact from the burn on the environment.

In carrying out a burn, you need to consider:

- 1) The fuel load and structure
- 2) The effects on the environment and the community
- 3) The specific zone objectives
- 4) If there are adequate fire breaks and control lines
- 5) The season and weather conditions
- 6) The topography and fire behaviour
- 7) What lighting patterns to use
- 8) Conducting a test burn
- 9) What safety measures may be needed
- 10) Mopping up afterwards
- 11) If you need to report the results

## 6.6 Check list for hazard reduction burns

The following is a checklist of tasks and activities that should be followed prior to hazard reduction burns:

No.	Task	✓
1	Fuel load assessment conducted	
2	Bushfire fire hazard sufficient to warrant a hazard reduction burn	
3	Fire breaks and control lines are in good condition	
4	Burn Plan developed – Identifying where the burn will occur, timing and personnel availability	
5	Ensure adequate trained personnel are on hand for planned burn	
6	Fire permit gained for proposed burn plan	
7	Proposed hazard reduction burn is approved by QFES and Council	
8	Community awareness plan is developed and activated prior to burn	
9	Bushfire stakeholders advised of hazard reduction burn timing	
10	Machinery and trucks are in good working order. Water available	
11	Contingency plan developed in case fire escapes the target area	
12	Hazard reduction burn is undertaken in accordance with QFES guidelines	
13	Fire control personnel ensure fire is out before leaving fire control area.	
14	A brief account of the hazard reduction burn submitted to QFES and Council	

## 6.7. Stakeholder contacts

- Collinsville and Scottville QFES – Collinsville - 0459 158 627
- WRC –
  - Collinsville WRC office - 0428360184
  - Scott Hardy – 0428722236 / 49450245.
- Dan Burndred – QDNRM - 0472 847 894, Tim Koch - 0418 970 097