

## Bushfire Management Plan 2022-2027

Note: During incidents or planning prescribed burning operations this plan should be used in conjunction with field reconnaissance, operation and incident plans, and aerial/satellite imagery.

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Datta source: Sly's Quarry Version: December 2022

### Section One: Risk Assessment & Management Strategies

<b>Location and Facility (area)</b>	Sly's Quarry is located at Lot 2 DP 1055044 Tullymorgan-Jackybulbin Road, Mororo - approximately 25 km N of Maclean. The Quarry is an open cut quarry to be expanded to a 18 hectare project area. The quarry will include an active borrow pit with supporting infrastructure including office, sediment and water supply dams, loading, maintenance and storage facilities, powerline, and access and parking areas.
<b>Fire season / danger period</b>	1 October to 31 March - unless brought forward to 1 September by Commissioner NSWRFSS
<b>Bushfire prone</b>	The site is bushfire prone, with bushfire prone vegetation occurring within and adjoining the property.
<b>Vegetation</b>	The area surrounding the property is largely comprised of Blackbutt ( <i>Eucalyptus pilularis</i> ) dominated dry heathy tall open forest. A mix of agricultural lands and conservation reserves east are located to the east. Continuous woody forested vegetation within native forests are located in the landscape surrounding the site.
<b>Bushfire risk factor summary</b>	The highest risk fires for the site occur under southerly, westerly and northerly wind influences, where a fire is burning in the adjacent forested area and burns into the site. Fires occurring under such conditions are capable of generating life and property threats. Fuel reduced areas to the east through agriculture will partially mitigate the fire risk.

### Section Two: Bushfire Mitigation Works Schedule

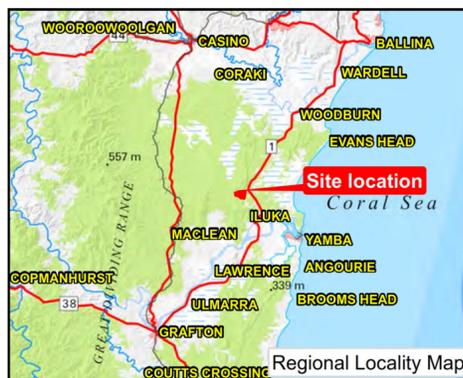
Work Type	Location	Zone	Standard	Timing	Responsibility	Procedures
Asset inspection, maintenance and seasonal bushfire preparedness	Shed / site office	Inner Protection Zone (IPA) (of an Asset Protection Zone (APZ)) - 21m to the east & 27m to the south	NSWRFS Standards for APZs (see <a href="http://www.rfs.nsw.gov.au/_data/assets/pdf_file/00000/100000/Standards-for-Asset-Protection-Zones.pdf">www.rfs.nsw.gov.au/_data/assets/pdf_file/00000/100000/Standards-for-Asset-Protection-Zones.pdf</a> )	Annual inspection and works completed prior to the bushfire danger period, and monthly within the bushfire danger period	Quarry Manager	Refer to NSWRFS Standard - An IPA should provide a tree canopy cover of less than 15% and should be located greater than 2 metres from any part of the roofline of a dwelling/structure. Garden beds of flammable shrubs are not to be located under trees and should be no closer than 10 metres from an exposed window or door. Trees should have lower limbs removed up to a height of 2 metres above the ground.
	Mulch stockpiles	IPA of 20m on all sides				
	Fuel storage	IPA of 100m on all sides				
Inspection and maintenance of site access trails	All site access trails		NSWRFS Fire Trail Standards ( <a href="http://www.rfs.nsw.gov.au/_data/assets/pdf_file/00000/100000/icy-2-2007-Fire-Trails.pdf">www.rfs.nsw.gov.au/_data/assets/pdf_file/00000/100000/icy-2-2007-Fire-Trails.pdf</a> )	Works completed prior to the bushfire danger period	Quarry Manager	Inspect access roads and trails (drainage, surface conditions, vegetation), identify and implement any maintenance required to meet the standard. As a working quarry access trails currently exceed NSWRFS standards with all access trails capable of supporting a Category One (Heavy) fire tanker

### Section Three: Bushfire Awareness Mechanisms

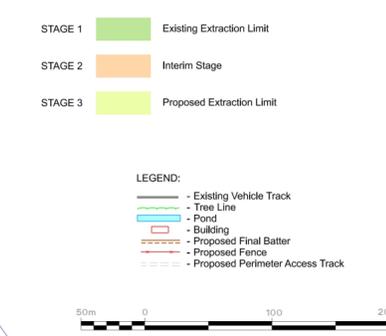
Awareness activity/product	Detail	Responsibility
Site induction process	Induction of new staff members, contractors, visitors and site users to include bushfire awareness, reporting and response actions to fire danger, and evacuation procedures	Quarry Manager
Staff briefings and pre-season drills	As part of fire and emergency procedures tool-box talk for all Quarry staff at the start of each fire season.	Quarry Manager
Liaison and drills with local RFS / site arrangements review	Annually prior to the bushfire season (August) invite NSWRFS representatives on-site for site familiarisation and liaison - running through procedures and operations detailed in this plan	Quarry Manager
Fire danger awareness	Monitor and advise staff on days of High fire danger (or greater) OR of any official fire warning issued for the site. Site supervisor or delegate to monitor ABC local radio (ABC Grafton 738AM   92.3FM) for fire warnings and NSWRFS website for fire danger ratings and warnings.	Quarry Manager

### Section Four: Preparedness and Response Strategy

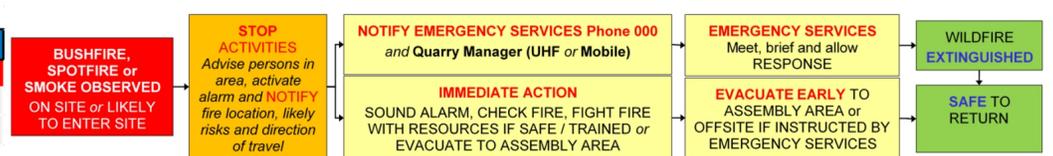
Activity	Operational guideline
Fire Comm and Incident Control (IC)	Quarry Manager or their delegate initially until replaced by responding external Fire Authority IC (NSWRFS) (on arrival following handover briefing).
Assembly Area   Refuge of Last Resort   Offsite Evacuation	The Sly's Quarry Refuge of Last Resort (when it is too late to evacuate offsite) is within a vehicle in the centre of the borrow area of the quarry. Offsite evacuations must not be undertaken at the last minute and only at the direction of the site supervisor or Incident Controller with the nearest NSWRFS Neighbourhood Safer Place at Bimbimby Caravan Park, 286 Iluka Road, Woombah.
External fire fighting resources	The nearest NSWRFS brigade is Woombah, directed from the Ulmarra Fire Control Centre (6644 5135).
Site fire fighting resources (for initial attack / spotfires only)	The site will include a large permanent water supply dam, including fittings for a hydrant. A water cart with hose reel and spray is to be located on site for quarrying operations.



DP 1055044  
26.819ha



Contact Details			
Contact	Number (02)	Contact	Number (02)
<b>Emergency: Dial 000</b>			
Quarry Manager	0427 822 667	NSW Police (Woodburn)	6682 2444
NSW Rural Fire Service	66445135	Fire & Rescue NSW (Maclean)	66454605



### Bushfire Warning Response Action

	Description	Action
<b>Advice</b>	There is a fire in your local area. There is no immediate danger. Monitor fire conditions.	Business as usual. Quarry Manager is to monitor local bushfire situation on the RFS website and ABC local radio (684 AM). All work units and contractors are to follow the directions of Quarry Manager.
<b>Watch &amp; Act</b>	A fire is approaching. There is a threat to life and property. You need to take action to protect yourself and others.	In addition to above, close windows and ensure immediate surrounds of all building are clear of combustible materials. Determine those individuals deemed to be non-essential and initiate 'go early' actions. All personnel should return to the site office assembly area and remain there awaiting further instructions from the Quarry Manager.
<b>Emergency Warning</b>	An 'Emergency Warning' is the highest level of alert and advises you of immediate danger. It may start with a siren sound. You are in danger and you need to take immediate action.	All personnel listen on ABC local radio to Emergency Warning evacuation location advised by emergency services. Proceed early to evacuation location if SAFE and route is CLEAR. If off-site evacuation is not possible, shelter-in-place within office building if it is safe to do so, or within vehicles in the centre of the quarry borrow area. In the unlikely event that any building within which personnel are sheltering catches fire, building occupants should proceed immediately to vehicles within the centre of the quarry or alternative safe building. Personnel <b>must not</b> 'self-evacuate' from the quarry in the event of receiving an Emergency Warning. <b>Note: Flee-in-panic responses and last minute evacuation into uncertain fire situations can be deadly. Any off-site evacuation must be controlled and authorised by the Emergency Incident Coordinator.</b>

### Bushfire Preparedness (during the Fire Season - restrictions for Moderate apply outside this period)

Fire Danger Rating	Potential Fire Behaviour and Impact	Quarry working restrictions and emergency actions
<b>Moderate</b>	Fires can be easily controlled. Minimal impact of fire	No specific restrictions in place for personnel. Site works must be in accordance with standard procedures including compliance with contract conditions (including Hot Works Permit conditions).
<b>High</b>	Fires can be controlled. Embers may be blown ahead of the fire. Spot fires can occur close to the main fire. Potential for vigorous bushfire spread through surface and near-surface fuel layers in native vegetation areas if not promptly extinguished.	<b>As for Low-Moderate PLUS</b> All personnel working in or adjacent to continuous fuels are briefed/adviced on appropriate ignition prevention measures and what to do in a fire. Consider issuing a Hotworks Permit for activities likely to cause sparks or ignitions. All site users within areas of bushfire hazard should have an emergency contact system in place (mobile phone or radio).
<b>Extreme</b>	Fires can be difficult to control – flames may burn into the tree tops. Embers may be blown ahead of the fire. Spot fires may occur up to 2 km ahead of the fire. Very High FDR typically occurs on dry windy days. Fire behaviour can rapidly escalate. Fires burning in VH have been responsible for large scale property loss and threats to human life.	<b>As for above plus:</b> Quarry Manager or delegate to maintain a 'listening-watch' of ABC Local Radio (AM 684 ABC) for changes in fire danger and official bushfire warnings while site is in operation. All site fire and support units must be ready for immediate deployment if required. Consider the suspension of activities which may cause sparks in areas of vegetation hazard (elevated fuels) 'Hot Work' activities must be in accordance with Hot Works Permit conditions.
<b>Catastrophic</b>	<b>TOTAL FIRE BAN</b> Fires may be uncontrollable and move quickly – flames may be higher than roof tops. Expect embers to be blown around. Spot fires may occur several km ahead of the fire. Fires occurring at these fire danger ratings have been responsible for the majority of bushfire deaths and property loss	<b>As for above plus:</b> <b>TOTAL FIRE BAN</b> Site supervisor ready to evacuate personnel from site if required, or shelter within the site, in the event of a bushfire. All hot work is prohibited (welding, grinding, soldering gas cutting, or any work that can generate sparks) in accordance with NSWRFS requirements