

strategen

Woodvale Lots 1, 200 and 300

Fire Management Plan

Prepared for
ABN Developments
by Strategen

August 2010

Woodvale Lots 1, 200 and 300

Fire Management Plan

Strategen is a trading name of
Strategen Environmental Consultants Pty Ltd
Suite 7, 643 Newcastle Street Leederville WA
ACN: 056 190 419

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Client: ABN Developments

Report	Version	Prepared by	Reviewed by	Submitted to Client	
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1. INTRODUCTION

This Fire Management Plan (FMP) describes the fire management actions to be implemented to protect the area within and adjacent to Lots 1, 200 and 300 Wanneroo Road (the Project area).

1.1 BACKGROUND

The City of Wanneroo (CoW) Structure Plan 64 (SP64) covers a parcel of land in the locality of Woodvale comprising an area of approximately 25 ha and includes 15 individual lots.

Under SP64, ABN Developments has received approval from the Western Australian Planning Commission (WAPC) to develop Lots 1, 200 and 300 for subdivision subject to 48 approval conditions. Amongst the range of conditions is a requirement to submit to the WAPC a FMP.

1.2 LOCATION

The Project Area is located approximately 20 km north of Perth in the City of Wanneroo. The development is bounded by Wanneroo Road to the east, Woodvale Drive to the north and Walluburnup Swamp to the west (Figure 1). Walluburnup Swamp is part of the Yellagonga Regional Park.

1.3 PURPOSE AND SCOPE OF DOCUMENT

The FMP has been prepared to address Condition 38 of the Western Australian Planning Commission (WAPC) subdivision approval (Application No. 140326) which requires:

“The preparation and implementation of a Fire Management Plan, to the satisfaction of the Western Australian Planning Commission. (Local Government)”.

1.4 RELATED DOCUMENTS

This FMP should be read in conjunction with the following:

- Hydrant Plan (WC Engineering 2010).
- Wetland Management Plan (Strategen 2010)

2. MANAGEMENT PLAN

2.1 OBJECTIVES, TARGETS AND PERFORMANCE INDICATORS

The objective of the FMP is to prevent uncontrolled fires occurring from activities associated with development of the Project area.

Specific targets and performance indicators have been developed to meet the fire management objective (Table 1)

Table 1 Objectives, targets and performance indicators for fire management

Objective	Target	Performance indicator
Prevent uncontrolled fires	No instances of the spread of fire from the construction site to outside of pre-defined boundaries.	Visual observations. Environmental Incident Reports.
	Installation of fire protection measures for developed site	Presence of fire protection measures

2.2 MANAGEMENT ACTIONS

Management actions have been developed to achieve the objective for fire management at the Project area (Table 2).

Table 2 Management actions

Aspect	Action	Timing	Responsibility
Personnel	Prohibit open fires (vegetation burning, rubbish burning) in the Project area.	During construction	Contractor
	Prohibit smoking within 30 m of any native vegetation or within dry grassy areas.	During construction – November to April	Contractor
	All construction personnel shall be: <ul style="list-style-type: none"> trained in the use of the onsite fire fighting equipment familiar with the equipment located in their specific work area informed of the steps to follow in case of a fire. 	At time of induction	Contractor
Equipment and materials	Fit all vehicles with dry chemical fire extinguishers. All extinguishers shall be tagged by an approved inspector prior to mobilisation onsite.	During construction	Contractor
	Allow access to pump, hose and associated fire fighting equipment at all times and the onsite water carts shall be readily accessible for fire fighting requirements.	During construction	Contractor
	Store all flammable materials as specified in the product Material Safety Data Sheet and in accordance with <i>Dangerous Goods Safety Act 2004 (WA)</i> .	At all times	Contractor
	Undertake any construction or equipment repair activities that have potential to ignite a fire (e.g. hot work: welding, grinding, flame cutting, blasting): <ul style="list-style-type: none"> using appropriate safety equipment (e.g. welding tents) where appropriate with fire fighting equipment readily accessible. 	At all times	Contractor
	Install fire hydrants as per the Hydrant Plan (WC Engineering 2010)	Prior to completion of construction	Contractor
Fire breaks and Access	Maintain appropriate fire breaks and emergency access in all areas of the construction site.	During construction	Contractor
	Construct a dual use pathway in the wetland buffer as per DEC specifications to act as a fire break and fire access path (Section 2.2.1).	Prior to completion of construction	Contractor
	Install removable bollards along part of the Wanneroo Road boundary to enable an alternative emergency access into the site.	Prior to completion of construction	Contractor

2.2.1 Dual use pathway

A dual use path will be installed to DEC specifications between the wetland revegetation and the dryland revegetation for passive recreation. The following specifications for the path may vary according to DEC requirements:

- the path will be asphalt sealed and coloured using a crushed granite aggregate with red oxide colouring
- the path will be constructed on a crushed limestone base providing two limestone shoulders on each side of the asphalt path
- revegetation will be set back approximately 1 m from the dual use path on both sides to reduce maintenance from overhanging tree branches, increase fire protection measures and increase visual surveillance of the area.

2.3 MONITORING

Monitoring actions have been developed to enable an assessment of the effectiveness of the management actions in place (Table 3).

Table 3 Monitoring for fire management

Purpose	Parameter	Frequency	Location	Responsibility
To ensure adequate fire fighting equipment are present and fully operational.	Fire fighting equipment	Monthly during construction	Where fire fighting equipment is located.	Contractor

2.4 CONTINGENCY MEASURES

Contingency measures will be implemented to respond to fire incidents should they occur (Table 4).

Table 4 Contingency measures for a fire incident

Trigger	Potential contingency action	Responsibility
Fire incident during construction	1. Respond to fire in accordance with fire response procedures.	Contractor
	2. Investigate cause (following incident).	
	3. Apply more stringent fire control actions if due to construction activities.	
	4. Consult the local fire brigade if advice is needed on improving fire prevention and/or response actions.	
	5. Take remedial action if fire was clearly due to construction activities, to rehabilitate the affected area of vegetation.	
	6. Complete an Environmental Incident Report within 72 hours of incident occurring and submit to the Contractor Construction Supervisor.	

3. IMPLEMENTATION

ABN Developments is responsible for implementation of the FMP during development/construction of the Project.

4. REFERENCES

Strategen 2010, *Woodvale Lots 1, 200 and 300 Wetland Management Plan*, Prepared for ABN Developments, August 2010.

WC Engineering 2010, *Hydrant Plan*, Prepared for ABN Developments.

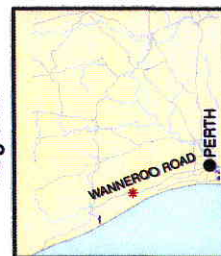


Figure 1 Location of Project area



Geographical System: CDA 1994 MGA (area 40)	Original Record: 12,745 of 13
Date: 24/05/2010	Source:
Recorded by: DMR	
Note: local additional winged forms occur in some ponds	