

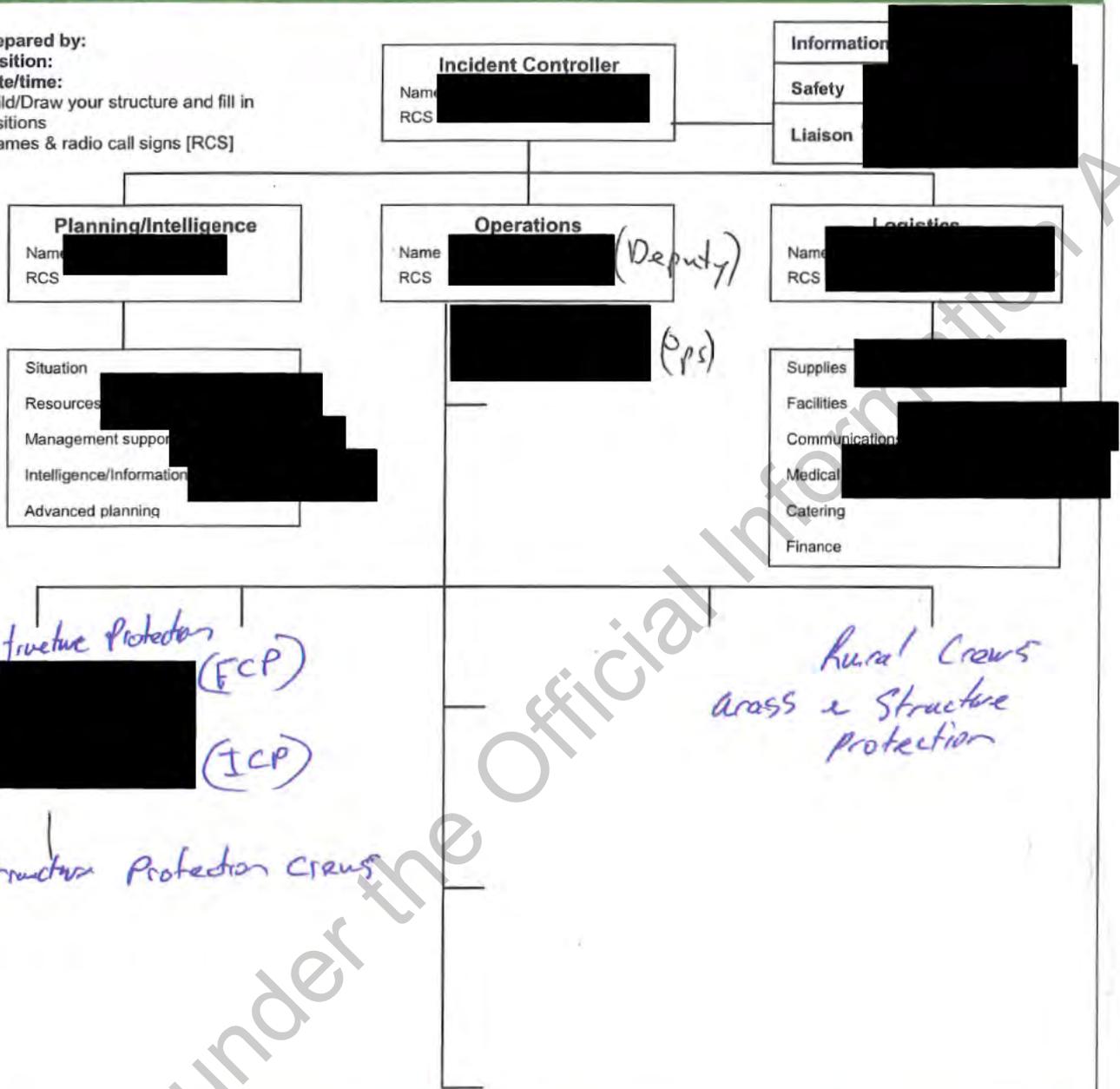
11:35pm 5/2/19

until 700

Initial Attack

Incident Management Structure

Prepared by:
 Position:
 Date/time:
 Build/Draw your structure and fill in positions, names & radio call signs [RCS]



Operational Tasking

Sector	Resource	Task	Grid	Tasked at hrs
Pigeon	Pigeons	Create Water Points		2330
	NPI Animal Welfare	Flying in Barn		2800

Any Question Ring [Redacted]

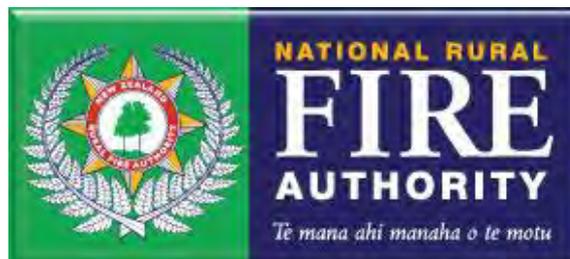
IAP Cover Sheet

INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- FACILITIES LAYOUT PLAN

Approved by Incident Controller:	Signed	Date/Time



1. Pigeon Valley	2. 6Feb2019 0700 to 1900
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Situation Report

RF201

1. Incident Name Pigeon Valley	2. Operational Period	SITUATION REPORT RF201
	Date 6 th Feb 20 Time 04:30	
3. Location Pigeon Rd, Eves Valley ,Tasman	4. Vegetation Forest/Scrub/Grass/Slash/	5. NZ TM Grid Ref. 41°22'32.51"S 173° 1'31.81"E
6. Assessment		
<p>A large scrub/ forest fire is currently burning estimated to be 1870ha at 00:30 hrs with a perimeter of 20km.</p> <p>Values at risk are life and property.</p> <p>We have unconfirmed reports of potential property losses in Eves Valley and Redwood Valley</p> <p>The Eves Valley sawmill is at risk and fire crews are carrying out structural protection on structures.</p> <p>Evacuations have occurred in the</p> <ul style="list-style-type: none"> • Eves Valley, • Golden Hills Rd, • Redwood Valley Rd • Mallings Rd • Greenacres Rd <p>We have confirmed records of 74 households (97 people) evacuated.</p> <p>Notice of potential evacuations in place for Sunrise Valley (top end), Deepdale Rd (Upper Moutere), Pigeon Valley and South Pigeon Valley.</p> <p>Crews are working in these areas as much as they can do safely, but fire conditions are proving challenging. At times crews have needed to retreat from property protection as dense smoke and ember attack meant conditions were too dangerous.</p>		

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7. Action taken

Six helicopters worked on the fire during yesterday afternoon and evening and another six are confirmed for this morning for suppression activities. Two fixed wing planes have also been requested for this morning.

A National Incident Management Team has been organised to assist the operations and is planned to commence arrival at 10am this morning.

Extreme fire behaviour has made it difficult for ground crews to directly work on the fire. These crews are being tasked with structure protection and controlling the fire when it has spotted onto grassland.

8. Factors

On Tuesday strong winds fanned the forest fire and the fire itself was creating its own extreme fire behaviour. Fire behaviour at night was still very active with highly flammable grass and scrubland carrying the fire.

The wind shift to a light northerly at midnight, is now forecast to happen at dawn (Wednesday)

9. Predicted Incident Development

Rates of spread were very fast on the afternoon and evening of the first day with the fire travelling 5km in 6 hours, through production forest area and into cured grassland.

Rates of spreads decreased during the night but with highly flammable fuels, the fire behaviour is extreme and unpredictable.

Winds are planned to ease in the morning possibly with a small amount of rain and a northerly change. Strong northerly winds are expected to develop this afternoon (Wednesday 6th Feb). Contingency plans for this are currently being worked on.

<p>10. Prepared by: [REDACTED] Authorised by [REDACTED] (Incident controller)</p>	<p>Date/Time 04:30 6th Feb 2019</p>
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Incident Objectives

RF202

<p>3. Overall Incident Objectives</p> <ul style="list-style-type: none"> Protect life (Public and Residents) Protect Property Identify and keep stakeholders informed Ensure Firefighter Safety Identify and protect Critical Infrastructure Transition to NIMT using shadow process by 1500hrs Protect Other Assets (Forests, crop etc) Prepare for Northerly Wind Change Contain then Extinguish fire
<p>4. Objectives for specified Operational Period</p> <ul style="list-style-type: none"> Protect life (Public and Residents) Identify and keep stakeholders informed Allow for Firefighter Safety Identify and protect Critical Infrastructure Transition to NIMT by 1500hrs Establish High volume Water Supplies Protect property and critical infrastructure by establishing hard containment lines with heavy equipment or Identify opportunities for laying down retardant ahead of wind change to protect property/infrastructure Establish trigger points with 3hrs lead-time for evacuations

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Organisation List

RF203

3. Incident Control		Cell Phone	Radio Ch
Incident Controller	██████████ (Day)	██████████	
Deputy IC	██████████ (Night)		
Information Officer	██████████		
Safety Officer	██████		
Liaison Officer			
4. Agency Representative		Cell Phone	Radio Ch
Lead Agency	FENZ ██████████ PRFO	██████████	
Agency	Police ██████████ ██████████		
Agency	CDEM ██████████ CDEM Duty Phone		
Agency	FENZ Urban Liason ██████████ ██████		
5. Planning/Intell Section		Cell Phone	Radio Ch
Planning/Intell Manager	██████████	██████████	
Situations Unit	██████████ (Night) ██████████ (Day) ██████████ (Day)		
	██████████ (GIS) ██████████		
Resources Unit	██████████ (EoC) ██████████ (Caravan Check in)		
Management Support Unit	██████████		
Information Unit			
Advance Planning Unit			
Technical Specialists Unit			
6. Logistics Section		Cell Phone	Radio Ch

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Logistics Manager	██████████ (Day)	██████████	
	██████████ (Night)	██████████	
Supply Unit	██████████	██████████	
Catering Unit	██████████	██████████	
Facilities Unit			
Finance Unit			
Communications Unit			
Welfare Unit	██████████	██████████	
Medical Unit	██████████	██████████	
Ground Support Unit			

7. Operations Section	Cell Phone	Radio Ch
Operations Manager	██████████	Waimea 1
Deputy Operations Manager	██████████	Waimea 1
Division Pigeon Commander	██████████	Fire 1
Division Hayton Commander	██████████	Fire 2
Division Teapot Commander	██████████	Fire 3
Division Redwood Commander	██████████	Fire 1
Division Moutere Commander	██████████	Fire 2
Division Two Commander	██████████	
Sector E Supervisor		
Sector F Supervisor		
Sector G Supervisor		
Sector H Supervisor		
Air Division Commander		
Air Attack Supervisor	██████████	Fire 4
Air Support Supervisor	██████████	

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Sector Assignment

RF204

3. Sector	4. Description		5. Division Assigned		
6. Sector Supervisor	Affiliation	Cellphone	Radio Ch		
7. Resources Assigned this period					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
8. Sector Assignment / Special Instructions					
9. Sector Communications			Phone	Radio Ch	
Division/Division Cmdr					
Air Attack Supervisor					
Safety Officer					

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Division Assignment

RF204a

3. Pigeon		4. Point of ignition to Dove Saddle	
6. Sector Commander ██████████	Affiliation Tasman VRRF	Cellphone ██████████	Radio Ch Fire 1
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
2 Taylors D8 jd850	1x HEQB		
2 Taylors Excavator	1xHEQB		
Tasman VRRF 4px West Coast ██████████ +3px			
1 Smoke chaser + 2px Hira			
1 Appliance + 4px Hira			
1 rural tanker			
7. Division Assignment/Special Instructions Protect Life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Dozer to establish hard containment lines for property/infrastructure protection Excavator to Establish high volume water supplies Wai-iti river Baigents Rd first and end of Hoult Valley Rd second Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

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Division Assignment

RF204a

3. Haytons		4. Point of ignition to Teapot Valley Rd end	
6. Sector Commander ██████████	Affiliation DoC Motueka	Cellphone ██████████	Radio Ch Fire 2
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
TLC Bulldozer D7	██████████		
TLC Excavator			
Appleby VRFF 4px North Canterbury ██████████ ██████████ +3px Nelson Lakes VRFF 4px			
1x smoke chaser			
1x appliance			
2x rural tanker			
7. Division Assignment/Special Instructions Protect life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change 1x Excavator establish High Volume Water Points Wai-iti River end of Bird Lane 1x Bulldozer for Property/Infrastructure Protection and Establish hard containment line along Haytons Rd Ground crew begin 5m blackout of flank Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager _____			
Air Division Commander _____			

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Division Assignment

RF204a

3. Teapot		4. Eves Valley Rd to Golden Hills Rd	
6. Sector Commander ██████████	Affiliation Wakefield VFB/NML	Cellphone ██████████	Radio Ch Fire 3
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Taylors Bulldozer D8			
1 Taylors Excavator			
Wakefield VFB 4px DoC crew 4px Ngatimoti VFFF 4px			
4x Urban crew			
2x rural tankers			
7. Division Assignment/Special Instructions Protect life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Establish High Volume Water supply end of Bells rd Wai iti River with Excavator 1x Bulldozer for Property/Infrastructure Protection first, Establish hard containment line on Eastern Flank/Eder Rd? Urban crew for Protection of Eves Valley Mill or other properties as required Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

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Division Assignment

RF204a

3. Redwood		4. Golden Hills Rd to Cut Hill Rd	
6. Sector Commander Urban Officer to be Confirmed		Affiliation FENZ	Cellphone
			Radio Ch Fire 1
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Dozer Burson D65 Komatsu			
1 TLC Excavator			
AFM 4px DoC crew 4px			
7. Division Assignment/Special Instructions Protect Life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Evacuation and notification of preparation for evacuation Excavator to identify and establish access for high volume water supply in existing ponds 1x Bulldozer for Property/Infrastructure Protection assisted by ground crew Contain fire South of Moutere Highway and West Golden Hills Rd Urban crew for protection of Eves Valley Hazardous Landfill Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties and provide containment			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

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Division Assignment

RF204a

3. Moutere		4. Cut Hill Rd to Dove Hill Saddle	
6. Sector Commander ██████████	Affiliation Bruce Forestry	Cellphone ██████████	Radio Ch Fire 2
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
Taylor's Hitachi 20T Excavator (on site)		Taylor's	TPFL Ops 2
1 TLC Excavator ?			
1 Taylor's Dozer			
3x 4px crews TBC 1000hrs? 2x 4px mid Canterbury West Coast 4px			
7. Division Assignment/Special Instructions Protect Life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Excavator to Identify and Establish high volume water access to existing ponds 1x Bulldozer for Property/Infrastructure Protection, sunrise valley, establish escape routes Taylor's Excavator to establish escape route/access down Supplejack Valley rd and Sunrise/Heines rd Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

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7. Air Operations Special Equip or Service

Communications Plan

RF205

3. Radio Channels				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Command		Waimea 1	152.55000 RX 154.33125 TX	
Division Pigeon	Operational	Fire 1	143.82500	
Division Hayton	Operational	Fire 2	143.78750	
Division Teapot	Operational	Fire 3	140.92500	
Division Redwood	Operational	Fire 1	143.82500	
Division Moutere	Operational	Fire 2	143.78750	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
4. Telephone				
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>
Emergency		111		
Regional Command Centre (RCC)				
6. Other (e.g. email, Satphone, etc)				
GIS Mapping	planning.intelligence@nelsontasmancdem.govt.nz			
ICP	Reception.nelsontasman@fireemergency.nz			
Command Unit	lucy.nelson@fireemergency.nz			

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Safety Plan

RF209

3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records.

Maintain regular situation reports (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
L - Lookout(s) A – Awareness – Anchor Point(s) C – Communication(s) E – Escape Route(s) S – Safety Zone(s)	<ol style="list-style-type: none"> conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided for safety first. 	<ol style="list-style-type: none"> Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter , drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or downwind of a fire Working on a steep slope Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working near machinery Working with aircraft Working around trees or spars

4. Specific Safety Points

- **Access points into fire controlled. Only those authorized to enter and they must receive a brief and be logged in. Time and access point**
- **Public access Managed**
- **Weather fire behaviour monitored for changes and communicated to crews. Risk identified to crews**
- **All crews to have adequate food, water, PPE to manage fatigue and hydration**
- **Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting point identified once evacuated.**
- **All workers to ensure they are competent for the tasks and risks given.**
- **Air and ground crews to be isolated from risk areas during operations.**
- **Potential methane flares (Division Hayton) from Eves Valley Landfill**

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Medical Plan

RF206

3. First Aid Station		Phone/Radio Channel	Paramedics available at Station				
Name	Location						
Each Crew must have available one First aid Level 1 Certified	Each crew						
Nelson 91 Ambulance	Forward command post	Waimea 1	1 Paramedic and 1 EMT				
4. Transportation Ambulance Service		Address	Phone/Radio Channel	Paramedics available with Ambulance			
Ambulance St Johns	Richmond station	111	Yes				
	Motueka/Stoke Nelson/						
5. Hospitals		Address	Phone	Travel Time		Burn Unit	Heli Pad
Hospital Name				Road	Air		
Nelson Public Emergency	Waimea Rd.	035461800	27m	4min	y	y	
Hutt Hospital (Burn Unit)		045666999	n/a	40min	Y	y	
6. Special Emergency Procedures							
Emergency Helicopter stationed at Nelson Airport "111"							
8. Reviewed by Safety Advisor:						Date/Time	

Prepared by: [REDACTED]	Date: 6Feb2019	Time: 0445
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FIRE WEATHER FORECAST

For Location [redacted] Pidgeon Valley near Wakefield

Issued by MetService at 01:38am 06-Feb-2019, and valid for the following 9 hours

Wind: Light southerly (5-10km/h) turning northeast to northerly around dawn.

Precipitation:

A few light showers this morning may bring about 1-2mm of rain, clearing late morning.

Temperature:

About 16C, rising to 20C midday.

Humidity: 70%, lowering to 50% midday.

Outlook for the next 12 hours :

Northeast to northerly winds rising to 20 to 30km/h in the afternoon.

Weather becoming fine, with temperatures in the low 20's this afternoon, humidity 40-50%.

Winds easing in the evening and turning light southeast to southerly.

Outlook for next 6 days:

Thursday: Light winds, sunny, dry and max temperature around 21C.

Friday: Light winds, sunny, dry and max temperature around 20C.

Saturday: Light winds, sunny, dry and max temperature around 22C.

Sunday: Northerlies, partly cloudy, a few light showers and max temperature about 22C.

Monday: Northerlies and rain, max temperature arond 21C.

Tuesday: Light winds, sunny and max temperature around 23C.

Fire Indices for Wednesday 6th Feb 2019

FFMC 86 (easy Ignition)

DMC 96.8

DC 457

ISI 4.7 (moderately fast rate)

BUI 126 (Extreme)

FWI 20.8 (high fire intensity)

Prepared by: [redacted]	Date:6Feb2019	Time: 0445
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FIRE BEHAVIOUR FORECAST

Fire name: Pigeon Road				Prediction for: 0800-1800 06 Feb-19					
Prepared by: ██████████				Time and date issued: 0300 Feb 19					
Forecast no. 1				Day Shift					
<i>Assumptions:</i>				<i>today's forecast</i>					
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
17	71	13	0	86	97	457	4.7	127	21

Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

Fire Behaviour General:

Released under the Official Information Act

Prepared by: ██████████	Date: 6Feb2019	Time: 0445
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Expected fire behaviour – slope 0°	Forecast worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 10-40 m/hr HF Intensity 200-700 kw/m Flame lengths 1-1.5	Expect HF rate of spread of 200 m/hr HF Intensity 2100 kw/m Flame lengths 3 m
<i>Fuel type: Scrub/gorse 2m height</i>	<i>Fuel type: Scrub/gorse 2m height</i>
Expect HF rate of spread of 500-1000 m/hr HF Intensity <10000 kw/m Flame lengths 7.2 m	Expect HF rate of spread of 3000 m/hr HF Intensity >10000 kw/m Flame lengths 13 m
<i>Fuel type: Grass-70% GC, 100% cover, 0.1m height</i>	<i>Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height</i>
Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m	Expect HF rate of spread of 600 m/hr HF Intensity 1050 kW/m Flame lengths 2 m
Safety Considerations:	
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now too high for ground crews
. Northerly change in the morning will move the head of the fire to the south/ eastern flank as the wind strengthens during the day. The nature of the fuels means that fire behaviour has the potential for extreme fire behaviour especially with wind, temperature and fuel changes.	

Prepared by: [REDACTED]	Date: 6Feb2019	Time: 0445
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