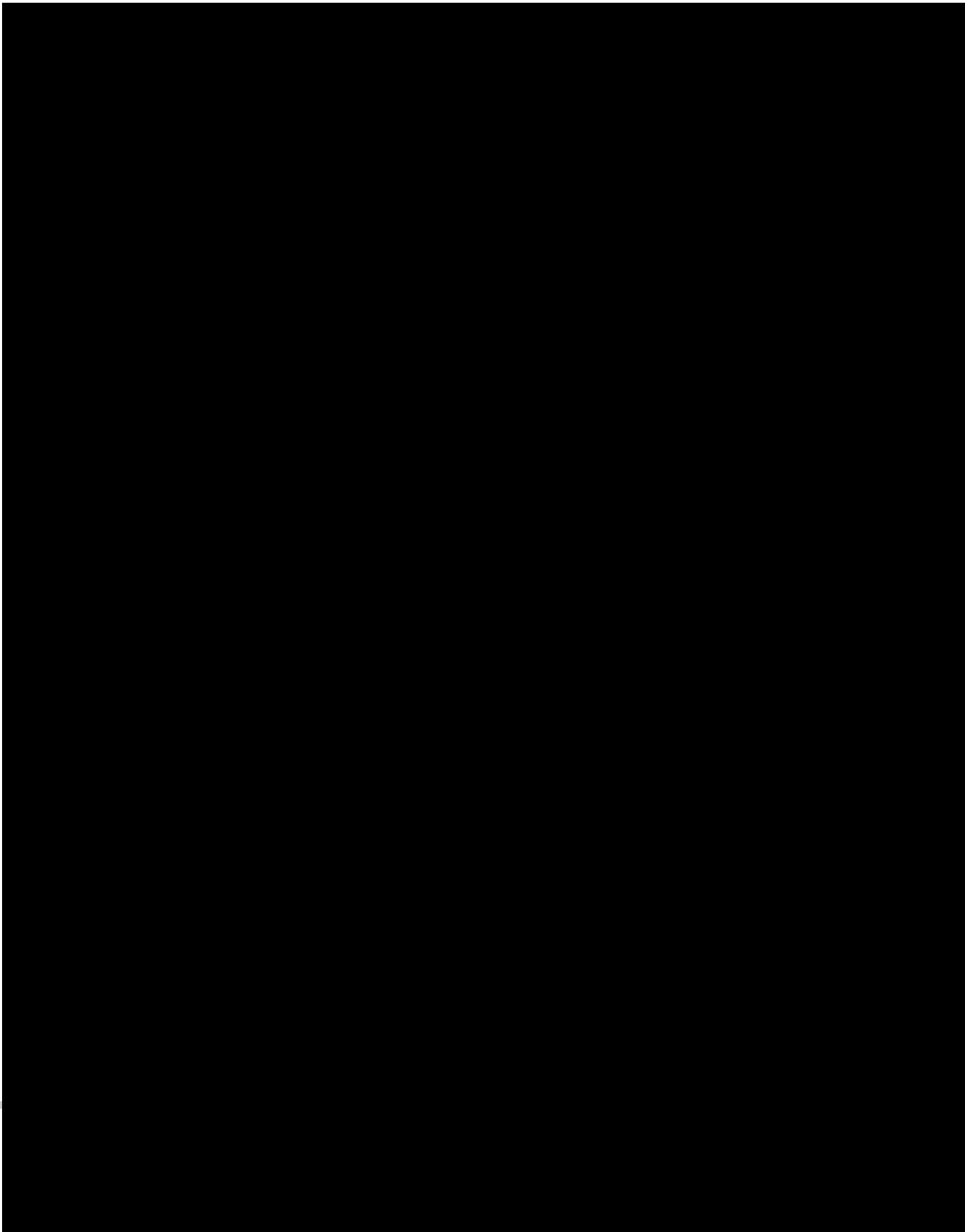
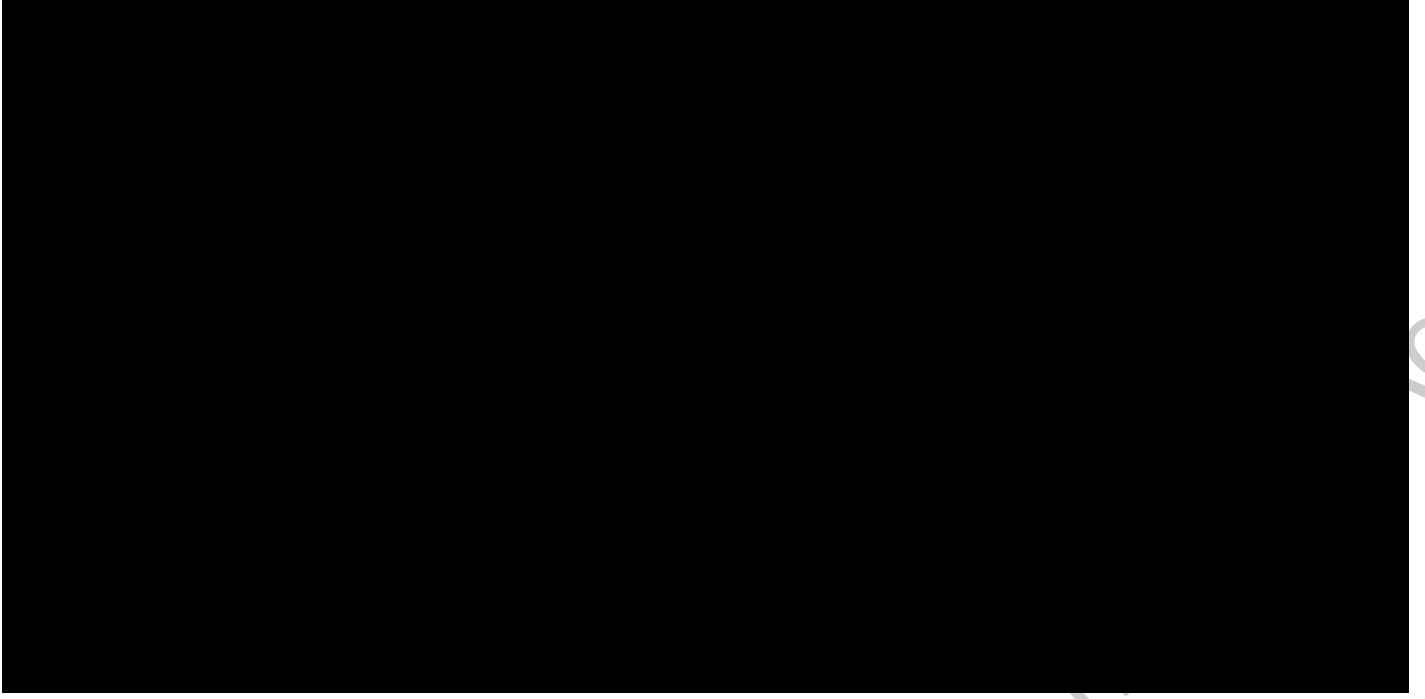


QR CODES FOR MAP DOWNLOAD



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1. Incident Name

Pigeon Valley Fire, Nelson

Date 9&10/2/2019

Time 1900 - 0700

Public Information Management Plan

Overview of PIM response

The NIMT and FENZ PIM team is working to support the Nelson Tasman Civil Defence PIM team. Is it essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

Update @ 1830hrs: We have been informed late this evening that the weather forecast for tomorrow indicates the potential for smoke to blow over the Nelson City area at approximately midday. Messaging around this health risk will need to be included in future communications to the public.

NIMT PIM team – as at Friday 9th February

PIM Manager – [REDACTED]

Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager. There is a number of personnel changes occurring from tomorrow afternoon with a handover period.

Key Message:

Evacuated personnel to contact the Civil Defence Welfare Centre

Follow the Nelson Tasman Civil Defence facebook page for updates and check their website

Media to contact the PIM Manager

FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs, 1500hrs and 1900hrs	RCC Christchurch	[REDACTED] and cc, [REDACTED] and Media@fireandemergency.nz
Evacuated Residents	Community Meeting scheduled	Various	Comms through social media, Civil Defence website, welfare team and media.

	for Monday 11 th Feb		
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz
Social media	Main channel: Nelson Tasman Civil Defence facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting tentatively scheduled for Saturday 9 th Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Media	Schedule
Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.
Media site visits	None scheduled currently.
Interviews	None scheduled currently
Message monitoring	
Messaging being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

Prepared by: [REDACTED]

Date: 9/2/19 1900hrs

Sector Supervisors Report (to be completed following shift)	Fire location		Signed			
	S-Supervisor name		Sector Name/Location			
	Shift Start	Date	Shift Start		Date	
		Time			Time	
Crews on your sector						
Crew Name/Company	C-Leader Name	No. Crew	Equipment used that crew supplied			
			Radios	C-saw	H-Tools	Other
Equipment used on the sector						
Pumps (hrs for each pump)	Wajax 1		hrs	Acqualite 1		hrs
	Wajax 2		hrs	Waterous 1		hrs
	Wajax 3		hrs	No Dams Used		
	Wajax 4		hrs			
Hose Lengths	25mm 4lengths=1pk		41mm 3lengths=1pk		70mm	
Suppressants	Foam		Litres		Soap Cap	
Fire Appliances Used on the sector						
Registration	Type	Driver name		Hourly Usage on site	Other Comments	
Heavy Machinery Used on site						
Registration	Type	Driver name		Hourly Usage on site	Other Comments	

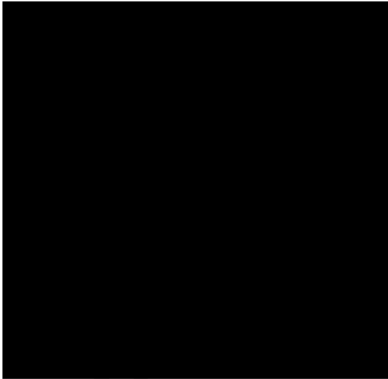
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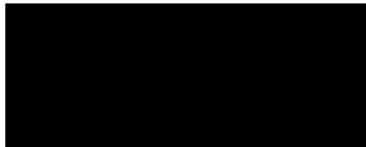
Incident Name	Operational Period	IAP COVER SHEET RF199
Pigeon Valley	Date 10/2/2019 Time 0700 - 1900	

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
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



Approved by Incident Controller:	Signed	Date/Time
Name 		2000 8/2/19



1. Incident Name Pigeon Valley	2. Operational Period Date 10/2/2019 Time 0700 - 1900	SITUATION REPORT RF201
3. Location Pigeon Rd, Eves Valley, Tasman	4. Vegetation Forest/Scrub/Grass/Slash/ Other:	
<p>Latest information as at 1400 9/2/2019: Fire activity has been low through the morning with crews focussing on hot spots and strengthening containment lines. Some air support was needed in the Redwood area to take the fire intensity out of some gully areas. Extra machinery is now putting in new control lines closer to Wakefield through the forest area. In the Atawhai area there has been increased hot spot activity as the heat of the day increases along with the sea breeze coming in. A clear perimeter has been established.</p> <p>A low intensity fire controlled burn is being considered in understorey in north western (X-Ray Div) to bring the burnt area out to the containment lines. This will aid our goal of overall containment of the fire and may help speed return of residents to this area. However if successful would greatly reduce future risk in this area. Detailed fire weather and behaviour has now been modelled for this section from 1300-1800 today, to evaluate risk and benefit, with an Options Analysis on tactics is being prepared, consultation with the Forest Owner is being undertaken and a media plan is being prepared.</p> <p>Weather conditions are reaching their peak for the day and are in line with those predicted. We are hoping the do not exceed predictions. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon. The potential for N/NE gusting 50km/hr localised for Sunday is a very high risk and will need to be monitored closely.</p> <p>Current resources working on the vegetation fire (day shift) are</p> <ul style="list-style-type: none"> - 23 helicopters, two fixed wings plane, 1 drone team - 18 vegetation crews, and 11 structure crews (151 personnel) - 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs - 47 incident management staff. 		

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6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2200ha as at 0700hrs on 9th Feb with a perimeter of 25km having extended overnight in the primarily in the pigeon valley area and north western boundary.

Thursday afternoon there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour was mainly internal burning throughout Friday, but has extended late evening and throughout the night along a 800m section north of Haytons Rd as the fire progressed upslope. Fire intensity has risen 0530hrs 9 Feb, and machinery and ground crews have focused much of the overnight activity on this 800m fire line. Drone infrared operations were used throughout the night to assist ground operations.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire has backed up on several structures close to the forest boundary on the south east, but are being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of the Sectors Zulu and Yankee.

Evacuations operations were conducted Friday across Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. This was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced Friday afternoon. With the suppression effort the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030hr Sat 9 Feb at night when favourable wind and weather conditions helped slow further progression.

A huge effort has been invested in this area today to allow this part of the fire to quietly burn down hill to the riverflats. To date we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind. Two contingency mobile site are currently being installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged.

The fire that started yesterday afternoon at Atawhai Road Fire.

Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopter arrived on site.

As of 0730 this is still active with smoke rising from the site and further aircraft has been dispatched to site this morning. Fire confirmed at 9.6ha 1.6km perimeter and is under control with monitoring.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones Sat night shift.

7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are

- 23 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment lines is being constructed by fellerbunchers, and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees.

Machinery and feller bunchers will continue are felling larger trees, shifting logs, and extending a contingency control line to enhance the fire break there in anticipation of the E wind, which is forecasted for today on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with overnight work.

Fire observers continue working throughout fire grounds including providing helicopter observation of areas which have potential for spotting.

Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.

Thursday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

3 drone teams will survey the fire lines overnight Saturday to look at extent of containment lines for updates Sunday morning.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer will also monitor the Atawhai Road fire.

8. Factors,

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Forecasted winds will again turn northerly to 20km by afternoon. The wind strength and smoke is proving challenging for aerial operations at times.

Relative humidity is tracking as expected for Saturday with moderate temperatures and high relative humidity supporting firefighting.

9. Predicted Incident Development

Weather forecasts are being updated every two hours, so we always have current information.

Weather conditions are reaching their peak for the day and are in line with those predicted. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon, and the potential for N/NE gusting 40km/hr localised for Sunday is being monitored closely.

Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-Iti river by 1900 hrs and there would be the possibility of a new fire run on the other side of the Pigeon Valley which would threaten a significant amount of structures on South Pigeon Valley Road. This analysis was reworked Saturday morning and remains unchanged.

10. Prepared by: [REDACTED]		Date/Time:
Authorised by [REDACTED] (Incident Controller)		1500 9 th Feb 2019
1. Incident Name Pigeon Valley	2. Operational Period Date 9/2/2019 Time 0700 - 1900	SITUATION REPORT RF201
3. Location Pigeon Rd, Eves Valley, Tasman	4. Vegetation Forest/Scrub/Grass/Slash/ Other:	

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1. Incident Name Pigeon Valley	2. Operational Period Date 10/2/2019 Time 0700 - 1900	INCIDENT OBJECTIVES RF202
3. Overall Incident Objectives <ol style="list-style-type: none"> 1. Ensure the safety of responders and public at all times during the incident 2. Minimise the impact on structures, infrastructure, assets and values during the incident 3. Minimise impact on environment, culture and historic values during the incident 4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident 5. Report on costs on a daily basis by 1800 6. Return community to homes/normal life as soon as practicable 7. Investigate cause (including protect initial ignition site and evidence) 		
4. Strategies to meet objectives <ol style="list-style-type: none"> 1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation. 2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates. 3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection. 4. Cultural/Historical/environmental values identified on incident ground (Actual and projected) 5. Assign fire investigation to determine cause 6. Financial reporting established and continued 7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> • Consider operation delivery to minimise impacts in support of the recovery plan. 		
Specific operational tasks for this shift to meet objectives <ul style="list-style-type: none"> • Crew blacking out to 30m in 10m increments • Patrol, and monitor all fire edges, focusing on • Protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill. • Continue to patrol and mop up • Establish an 'initial attack capability' for the incident. • Create and strengthen firebreaks • Management of prescribed burn • Heavy machinery to reinforce firebreaks and establish new lines identified in sectors. • Urban appliances tasked for structure protection. 		
5. Prepared by: ██████████	Date/Time: 1900 8/2/19	

1. Incident Name	2. Operational Period Date 10/2/2019 Time 0700 - 1900	ORGANISATION ASSIGNMENT RF203
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3. Incident Control	Phone	Radio Ch
Incident Controller [REDACTED] (NIMT)	[REDACTED]	
Deputy IC [REDACTED]	[REDACTED]	
Information Officer	[REDACTED]	
Safety Officer [REDACTED] (NMIT)	[REDACTED]	
Liaison Officer		

4. Agency Representative	Phone	Radio Ch
Lead Agency [REDACTED] FENZ	[REDACTED]	
Agency Police [REDACTED]	[REDACTED]	
Agency [REDACTED]	[REDACTED]	
Agency CDEM [REDACTED]	[REDACTED]	
Agency CDEM Duty Phone	[REDACTED]	
Agency FENZ Urban Liason [REDACTED]	[REDACTED]	

5. Planning/Intell Section	Phone	Radio Ch
Planning/Intell Manager	[REDACTED]	
Situations Unit	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	
Management Support Unit [REDACTED]	[REDACTED]	
Information Unit		

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Advance Planning Unit			
Fire investigation	[REDACTED]	[REDACTED]	
6. Logistics Section			
		Phone	Radio Ch
Logistics Manager	[REDACTED] (NMIT)	[REDACTED]	
Supply Unit	[REDACTED]		
Catering Unit			
Facilities Unit	[REDACTED]	[REDACTED]	
Finance Unit			
Communications Unit			
Medical Unit			
7. Operations Section			
		Phone	Radio Ch
Operations Manager	[REDACTED]	[REDACTED]	[REDACTED]
Deputy Operations Manager	[REDACTED]	[REDACTED]	[REDACTED]
Division Alpha	[REDACTED]	[REDACTED]	[REDACTED]
Division Xray	[REDACTED]	[REDACTED]	[REDACTED]
Division Yankee	[REDACTED]	[REDACTED]	[REDACTED]
Division Zulu	[REDACTED]	[REDACTED]	[REDACTED]
Division Atawhai	[REDACTED]	[REDACTED]	[REDACTED]
Air Division Commander	[REDACTED]	[REDACTED]	[REDACTED]
Air Attack Supervisor	[REDACTED]	[REDACTED]	[REDACTED]
Air Attack Supervisor(Trainee)	[REDACTED]	[REDACTED]	[REDACTED]
Air Support Supervisor	[REDACTED]	[REDACTED]	[REDACTED]
8. Prepared by:		[REDACTED]	Date/Time: 1900 8/2/19

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1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT <small>RF204a</small>	
3. Division Alpha		4. Description Point of ignition to Dove Saddle on Eder Rd			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████	Command: Fire Crew: Simplex		
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Bulldozer D7		TLC			
Excavator 20 T		TLC			
Hira Smoke Chaser from 2pm					
DOC Motueka +3 PX		Last Day			
DOC Takaka + 8 PX		Last Day			
DOC Nelson Lakes + 4 PX		Last Day			
DOC South Marlborough + 4 PX					
JNL + 4 PX					
Ngatimoti 5325 Smoke Chaser +2					
A1					
Dozer to continue to widen Rout Rd. Smoke chaser and crews blacking out to 30 m in 10m increments along perimeter where possible and safe. Structure protection in Sharps Rd Valley area					
A2					
Feller buncher to continue removing large trees along the East side of Cut Hill Rd and where required on fire ground. To be directed by Heavy equip. manager and Div. Commander Mop up with ground crews from yesterdays burn					
Helicopters to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 to request					
Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)					
8. Division Communications			Phone		Radio Ch
Operations Manager		██████████	██████████		Fire 1/Cellphone
Air Division Commander		██████████	██████████		Fire 4/Cellphone
9. Prepared By: ██████████			Date/Time 1900 9/2/19		

1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Xray		4. Description Division from Cut hill Johnsons Rd to CHH saw mill			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████	Fire 5		
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
				<i>Radio Ch</i>	
D155 Dozer					
Nicholson Tanker		13,000 L			
Excavators X2					
Appleby Tanker (short crewed)					
Smoke Chaser Wainui 3px					
NZDF RFA x7px					
Invercargill Crew + 5 PX					
AFM – ████████ 4px					
Otago Crew + 5 PX					
Hurunui Crew + 4 PX					
<p>X1 Mop up with ground crews following yesterdays burn. Continue widening Cut Hill Rd to Moutere saddle and assist on Johnsons Rd if required</p> <p>X2 Check and enhance perimeter around structures. Ground crews to mop up and patrol.</p> <p>X3 Monitor only, no operations required at this stage.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000 Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
8. Division Communications				Phone	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
10. Prepared By: ██████████				Date/Time 1900 9/2/19	

1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT <small>RF204a</small>	
3. Division Yankee		4. Description Bennets Road to CHH saw mill at Eves Valley			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████	Wakefield VFB	██████████	Fire 3		
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
2x Excavator 20T		Taylors			
Bulldozer D8		Taylors			
Brightwater 5026 + 4px					
Rural Tanker Downers + 1px					
Brightwater 5071 + 3px					
Stoke 221 + 5px					
Richmond 331 + 4px					
Ngatimoti 5375 + 4px					
Wellington 2 + 5 PX					
West Coast 2 + 5 PX And Smoke Chaser and Tanker					
<p>Y1 Push fire line in from Eder Rd and continue to widen Eder Rd Monitor existing fire break</p> <p>Y2 Continue felling Eucalyptus trees aroun Eves Valley Mill Protect Mill and surrounding structures</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
8. Division Communications				Phone	Radio Ch
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
11. Prepared By: ██████████			Date/Time 1900 9/2/19		

1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Zulu		4. Description Point of ignition to CHH saw mill			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████	Fire 2		
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
4x Excavator 20T		TLC			
D65 Dozer		██████████			
Watertanker					
Tree and Forestry + 4px					
South Canterbury 10px					
Lake Rotoiti + 4 PX					
Upper Moutere 321 + 5 PX					
Wellington 1 + 5 PX					
<p>Z1 Protection of cell tower with aircraft only Maintain mobility in this sector react to any break out (smoke chasers, 4wd tankers). Prioritise this area due to large number of structures. Remove vegetation between Pigeon Creek and vehicle/machinery yard and continue to the North to the road near the small bridge across dry creek. Lay a contingent retardant line by tanker & hose 5 metres wide on the forest side at the junction of Pigeon and Wai iti streams. Lay a contingent retardant line around structures north of Wakefield as directed by Div Commander.</p> <p>Will instruct Division Commander of exact locations at morning briefing</p> <p>Z2 Link containment line from Barton Rd to Tea Pot valley. Protection of dairy farm and structures Ground crews continue to mop up. Protection of structures near top of Drones by extending defensible space.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.</p>					
8. Division Communications				Phone	Radio Ch
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
12. Prepared By: ██████████			Date/Time 1900 9/2/19		

1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Atawhai		4. Description			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████	FENZ	██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
Doc S.Cant Crew 8px (2 merged)					
Hawks Bay Crew – 5px					
716 smoke chaser					
Hira Smoke chaser 2px					
██████████ Winn Tanker (Bulk) 1x					
7. Division Assignment/Special Instructions					
Ground crews continue to mop up and blacken out.					
Deeper seated spots will need to be dug out.					
8. Division Communications				<i>Phone</i>	
Operations Manager					
13. Prepared By: ██████████				Date/Time 1900 9/2/2019	

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1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Property Assessments		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	Affiliation	Phone		Radio Ch	
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
[REDACTED]		FENZ Liaison			
7. Division Assignment/Special Instructions					
<ol style="list-style-type: none"> 1. The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation. Fire danger risk assessments will be completed for each property, surrounding area and access routes. The risk assessments will include work on danger trees, condition of surrounding flammable fuels and built structures. These will be reviewed in relation to incident status and predicted weather. 2. The assessments will include staff from Civil defence, FENZ and specialist contractors as required. 3. Liaison communications will be maintained with division commanders at all times when on the incident ground 4. Timeline for the assessments to be confirmed 					
8. Division Communications				Phone	Radio Ch
Operations Manager		[REDACTED]	[REDACTED]	[REDACTED]	Fire 1/Cellphone
Air Division Commander		[REDACTED]	[REDACTED]	[REDACTED]	Fire 4/Cellphone
14. Prepared By: [REDACTED]				Date/Time 1900 8/2/19	

1. Incident Name Pigeon Valley	2. Operational Period Date 10/2/2019 Time 0700 - 1900	AIR OPERATIONS PLAN RF208
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3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Air Div Commander	[REDACTED]		[REDACTED]	
Air Attack Supervisor		Fire 4		
Air Attack Supervisor(Trainee)				
Air Support Supervisor				
Lead Helicopter Pilot				
Lead Fixed-Wing Pilot				

4. Air Resource Assignments						
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name	Telephone Numbers
Becks	UH-1	HHF		Fire 4	[REDACTED]	
Becks	UH-1	HHB		Fire 4		
Helicharter	500D	HXX		Fire 4		
Garden City Heli	B3	IHL		Fire 4		
Garden City Heli	EC130	IGF		Fire 4		
Garden City Heli	BK	IVB		Fire 4		
Reid Heli	B2	HPE		Fire 4		
Reid Heli	FX2	HEX		Fire 4		
Reid Heli	B2	IOR		Fire 4		
Southern Heli Lift	UH-1L	HUE		Fire 4		
Marlborough Heli	Jetranger	HZE		Fire 4		
Marlborough Heli	Long Ranger	HTA		Fire 4		
Skyworks	B3	HWW		Fire 4		
Amuri Heli	FX2	HJM		Fire 4		
Anderson	B2	HKA		Fire 4		
Independent Heli	EC130	IWS		Fire 4		
Christchurch Heli	B2	HNC		Fire 4		
Wanaka Heli	B2	HFF		Fire 4		
Mt Hutt Heli	BA	HYS		Fire 4		
Heliventures	B2	IER		Fire 4		
Murchison Heli	BA	ILW		Fire 4		
[REDACTED]	Cresco			Fire 4		
[REDACTED]	Airtractor			Fire 4		
Interpine	RPAS / UAV	PINES1		Fire 4		

Interpine	RPAS / UAV	PINES2		Fire 4	
Usar	RPAS / UAV	PINES3		Fire 4	
5. Location of Filling Points/Service Areas					
Name			Grid Reference		
Heli base			-41.31777, 137.10987		
Fixed wing			41 22 39.9 S 173 05 04.6 E		
6. Safety Notes / Hazards / Radio Coverage Limitations					
7. Air Operations Special Equip or Service					
<ul style="list-style-type: none"> • Retardent filling crew (Fixed Wing) - [REDACTED] • Bryant Earthworks - [REDACTED] <ul style="list-style-type: none"> • 2x dip trucks • 1x dip truck and trailer • 5x support tankers 					
8. Prepared By: [REDACTED]				Date/Time: 1900 8/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900		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 Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankee	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
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		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
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)					
Resources	resources@FENZNelsonIMT.com				
Safety	safety@FENZNelsonIMT.com				
Logistics	logistics@FENZNelsonIMT.com				
PIM	pim@FENZNelsonIMT.com				
Planning	planning@FENZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fireemergency.nz			[REDACTED]	
Situation / GIS / Intel	situation@FENZNelsonIMT.com				
Operations	operations@FENZNelsonIMT.com				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			https://www.facebook.com/groups/1924082991035550/	
6. Prepared by: [REDACTED]				Date/Time 1900 8/2/19	
7.					

1. Incident Name Pigeon Valley	2. Operational Period Date 10/2/2019 Time 0700 - 1900	SAFETY PLAN RF209
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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 (Complete DTR's).

Maintain regular situation reports especially kestrel observations (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"> 1. conditions and forecasts 2. Know what your fire is doing at all times. 3. Base all actions on current and expected fire behaviour of the fire. 4. Identify escape routes and safety zones and make them known. 5. Post lookouts when there is possible danger. 6. Stay alert. Keep calm, Think clearly, act decisively. 7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. 8. Give clear instructions and ensure they are understood. 9. Maintain control of your crew/s at all times. 10. Fight fire aggressively having provided for safety first. 	<ol style="list-style-type: none"> 1. Fire size is unknown (no size up). 2. Unfamiliar territory 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. No communications link with crew members or supervisor. 6. Instructions and assignments not clear. 7. Weather is getting hotter, drier and relative humidity dropping 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line 10. Working uphill or down wind of a fire 11. Working on a steep slope 12. Working in rugged terrain 13. Can't see main fire 14. In unburnt vegetation 15. Walking through hot ashes 16. Working alone 17. Getting tired 18. Working near power lines 19. Working near machinery 20. Working with aircraft 21. Working around trees or spars

- 4. Specific Safety Points**
- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
 - Public access managed by cordons
 - Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
 - All crews to have adequate food, water, PPE to manage fatigue and hydration.
 - Work rest periods enforced. Seek shade during rest period.
 - Ensure nine-hour rest periods before returning to fire ground.
 - Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point 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 Yankee) from Eves Valley Landfill. Avoid if possible.
 - Avoid skid sites where stability of surface cannot be assured.
 - Particular care in smoke, work in smoke and traveling in smoke.
 - Ensure operational separation from Air-ops at forward command post
 - Follow carpark signage at Forward command post
 - Report all incidents and near misses to safety officer.
 - Be sun smart, use hats and cover completely.
 - Drive carefully in the vicinity of the Brightwater community
 - Ensure under garments are flame resistant
 - Forestry track road speed 20 km/hr. Use beacons/ lights etc.

5. Prepared By:	Date/Time 1900 8/2/19
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1. Incident Name Pigeon Valley		2. Operational Period Date 10/2/2019 Time 0700 - 1900			MEDICAL PLAN RF206					
3. First Aid Station <i>Name</i>		<i>Location</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available at Station</i>				
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 <i>Ambulance Service</i>		<i>Address</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available with Ambulance</i>				
Ambulance St Johns		Closest unit		111		Yes				
5. Hospitals <i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>		<u><i>Travel Time</i></u> <i>Road</i>		<i>Burn Unit</i>	<i>Heli Pad</i>	
Nelson Public Emergency		Waimea Rd.		111		27m		4min	y	y
Hutt Hospital (Burn Unit)				111		n/a		40min	Y	y
6. Special Emergency Procedures										
St John will transport patients to whichever health facility is appropriate										
7. Prepared By: [REDACTED]				Shift - Manager Nelson				Date/Time 1900 8/2/19		

Short range FORECAST

4 pm Saturday – 6 am Sunday

Rainfall: Chance of a light shower through to 7pm, thereafter none expected

Sustained wind: Currently NE 15 km/h gradually easing to 10 km/h and less by 10pm and turning S-SW. After midnight through to 6pm sustained winds are expected to be light, ~ 5 km/h

Wind gusts: Currently gusting ~ 30 km/h and beginning to ease. Gusts will gradually decrease to 15 km/h or less from 11pm onward.

Temperature: Decreasing to near 14°C early morning.

Humidity: 70% and increasing to near 95% after midnight.

6 am – 6 pm Sunday

Rainfall: None expected

Sustained wind: Light (~ 5 km/h) W-SW in the morning, gradually increasing and becoming E-NE by 1pm through to 6pm. From 1pm onwards sustained winds will be 15 km/h.

Wind gusts: Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm. From 1pm-6pm gusts up to 45 km/h are possible.

Temperature: A maximum of 22-23°C by early-to-mid-afternoon.

Humidity: 95% decreasing to 60% by 2pm and then slightly increasing to 70% by 6pm.

Outlook for Monday:

Rainfall - None expected.

Afternoon wind gusts up to 35 km/h possible.

Maximum temperature 23-24°C.

Outlook for Tuesday:

Light afternoon/evening showers possible

Afternoon wind gusts up to 40 km/h possible.

Maximum temperature 25-26°C

FIRE BEHAVIOUR FORECAST

Fire name: Pigeon Road	Prediction for: 0800-1800 10 Feb-19
Prepared by: [REDACTED]	Time and date issued: 1430 09th Feb 19
Forecast no. 5	Day Shift

<i>Assumptions: Dovedale weather station</i>				<i>Saturday's forecast</i>					
Temp *	RH %	Wind km/hr	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
21	65	15	0	79	102	477	7	133	18

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

Fire Behaviour General:

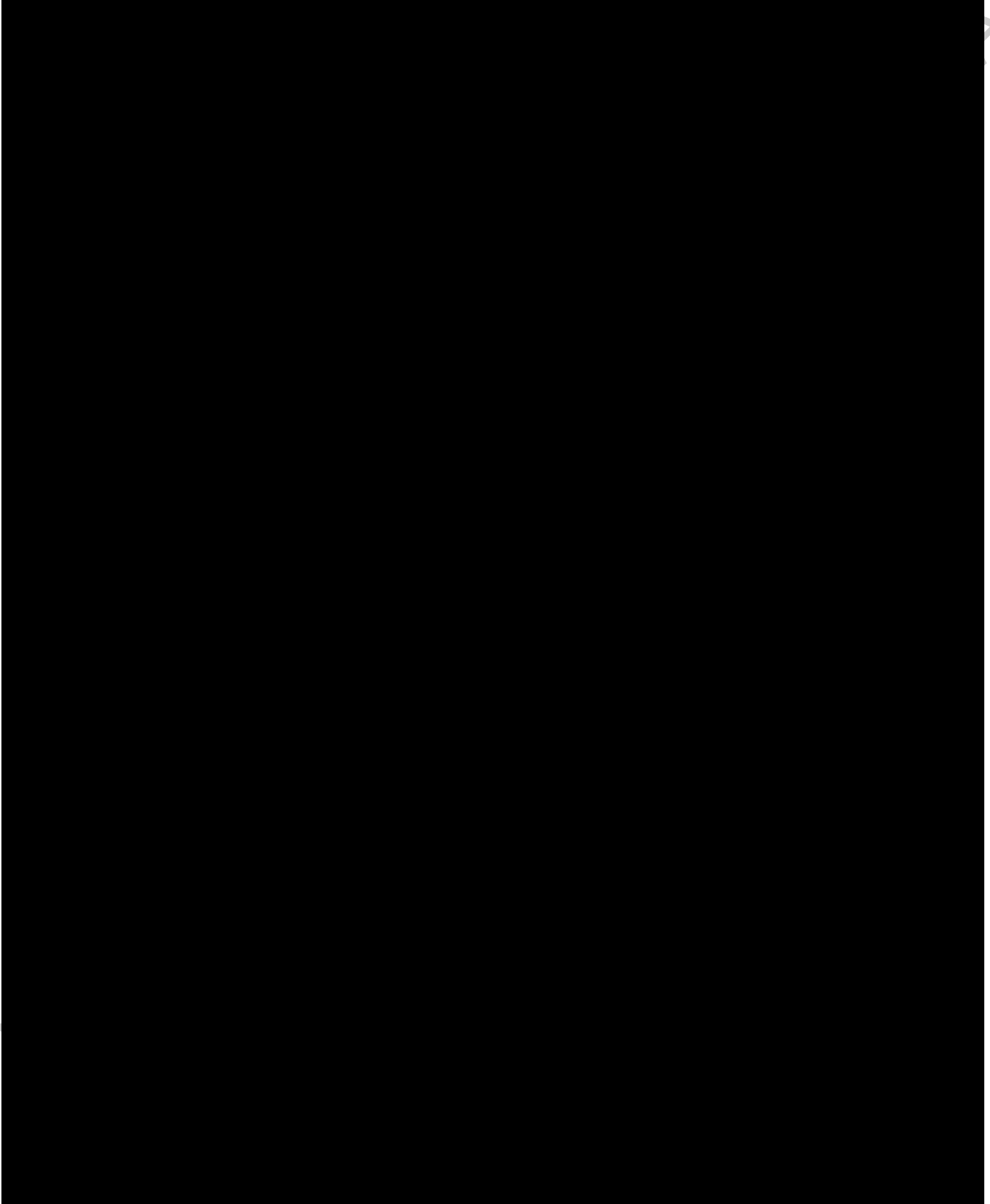
Expected fire behaviour – slope 0° (expected fire front)	Forecast worst case – 28°C 45%RH slope 20° 1400-1800
Fuel type: Forest/Scrub/gorse mix	Fuel type: Forest/Scrub/ gorse mix
Expect HF rate of spread of 185 m/hr HF Intensity 2939 kw/m Flame lengths 3.1 m	Expect HF rate of spread of 600 m/hr HF Intensity >8900 kw/m Flame lengths 5 m
Fuel type: Grass-80% GC, 100% cover, 0.1m height	Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height
Expect HF rate of spread of 500 m/hr HF Intensity 630 kw/m Flame lengths 1.4 m	Expect HF rate of spread of 1600 m/hr HF Intensity 1570 kW/m Flame lengths 2.3 m
Safety Considerations:	
Head Fire intensity, in pine/scrub fuels will require air attack.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels.. Flank fires intensity is now too high for ground crews
Based on the Dovedale weather station and NIWA forecasting.	

RF201a

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1. Incident Name Pigeon Valley	2. Operational Period Date 10/2/2019 Time 0700 - 1900	MAPS RF
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps		

QR CODES FOR MAP DOWNLOAD





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Public Information Management Plan

Overview of PIM response

The NIMT PIM team is working to support the Nelson Tasman Civil Defence PIM team. It is essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

The overall PIM team is increasing personnel numbers.

NIMT PIM team – for Sunday 10th February

PIM Manager – [REDACTED]

Media Officer – [REDACTED]

PIM Support – [REDACTED]

Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The **PIM Team roster** is available from NIMT Logistics Manager.

PIM meetings:

Ops Briefing	0700hrs
Media Briefing #1	0830hrs
Planning Meeting #1	1030hrs
Tactics Meeting	1300hrs
Media Briefing #2	1530hrs
Planning Meeting #2	1700hrs

Key Messages:

- **Attn Cordons:** Media should only be allowed access to cordoned areas and restricted sites if approved and accompanied by a member of the PIM Team. Please be diligent with allowing people through.
- Evacuations are still in place, for more information, go to www.nelsontasmancivildefence.co.nz
- Evacuated residents should check in at the Civil Defence Welfare Centre located at the Saxton Field Stadium or call the Civil Defence Welfare helpline - 03 543 8400
- Media should contact the Media Officer for specific event information and media standup information.
- Fire safety messages are: Stay away from the area and follow authorities instructions. Also help protect your property by creating a 'defensible zone' – Compost, mulch or remove any section or yard waste materials.
- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs, 1500hrs and 1900hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, [REDACTED], [REDACTED], Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 th Feb	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz
Social media	Main channel: Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting Monday 11 th February – details TBC.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	

Media	Schedule
Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1530hrs. 2 hourly Media Releases
Media site visits	Stuff reporter requested for flyover - TBA
Interviews	Regular interviews with FENZ personnel
Message monitoring	
<p>Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.</p>	

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1. Incident Name Pigeon Valley Fire, Nelson	2. Operational Period 09/02/2019 – 0700 to 1900
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Sector Supervisors Report (to be completed following shift)	Fire location			Signed		
	S-Supervisor name			Sector Name/Location		
	Shift Start	Date		Shift Start	Date	
		Time			Time	

Crews on your sector

Crew Name/Company	C-Leader Name	No. Crew	Equipment used that crew supplied			
			Radios	C-saw	H-Tools	Other

Equipment used on the sector

Pumps (hrs for each pump)	Wajax 1		hrs	Acqualite 1		hrs
	Wajax 2		hrs	Waterous 1		hrs
	Wajax 3		hrs	No Dams Used		
	Wajax 4		hrs			
Hose Lengths	25mm 4lengths=1pk		41mm 3lengths=1pk		70mm	
Suppressants	Foam		Litres		Soap Cap	

Fire Appliances Used on the sector

Registration	Type	Driver name	Hourly Usage on site	Other Comments

Heavy Machinery Used on site

Registration	Type	Driver name	Hourly Usage on site	Other Comments

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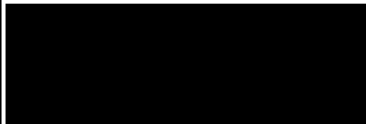
Incident Name	Operational Period	IAP COVER SHEET RF199
Pigeon Valley	Date 10&11/2/2019	
	Time 1900 – 0700	

INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



Approved by Incident Controller:	Signed	Date/Time
Name 		1900 10/2/19



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1. Incident Name Pigeon Valley	2. Operational Period Date 10&11/2/2019 Time 1900 – 0700	SITUATION REPORT RF201
3. Location Pigeon Rd, Eves Valley, Tasman	4. Vegetation Forest/Scrub/Grass/Slash/ Other:	
<p>Latest information as at 1400 9/2/2019: Fire activity has been low through the morning with crews focussing on hot spots and strengthening containment lines. Some air support was needed in the Redwood area to take the fire intensity out of some gully areas. Extra machinery is now putting in new control lines closer to Wakefield through the forest area. In the Atawhai area there has been increased hot spot activity as the heat of the day increases along with the sea breeze coming in. A clear perimeter has been established.</p> <p>A low intensity controlled burn was completed in understorey in north western (X-Ray Div) to bring the burnt area out to the containment lines. This will aid our goal of overall containment of the fire and may help speed return of residents to this area</p> <p>Weather conditions are reaching their peak for the day and are in line with those predicted. We are hoping these not exceed predictions. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon. A revised weather forecast from NIWA has lowered the wid speed prediction to 20kph gusting to 30kph rather than 40kph tomorrow</p> <p>Current resources working on the vegetation fire (day shift) are</p> <ul style="list-style-type: none"> - 23 helicopters, two fixed wings plane, 1 drone team - 18 vegetation crews, and 11 structure crews (151 personnel) - 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs - 47 incident management staff. 		

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6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2200ha as at 0700hrs on 9th Feb with a perimeter of 25km having extended overnight in the primarily in the pigeon valley area and north western boundary.

Thursday afternoon there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour was mainly internal burning throughout Saturday Drone infrared operations were used throughout the night to assist ground operations.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire has backed up on several structures close to the forest boundary on the south east, but are being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of the Sectors Zulu and Yankee.

Evacuations operations were conducted Friday across Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. This was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced Friday afternoon. With the suppression effort the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030hr Sat 9 Feb at night when favourable wind and weather conditions helped slow further progression.

A huge effort has been invested in this area today to allow this part of the fire to quietly burn down hill to the riverflats. To date we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind. Two contingency mobile site are currently being installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged.

The fire that started yesterday afternoon at Atawhai Road Fire.

Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopters, 4x urban and one rural arrived on site. As of 0730 this is still active with smoke rising from the site and further aircraft was dispatched to site the next day. Fire confirmed at 9.6ha 1.6km perimeter and is under control with monitoring.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones Sat night shift.

7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are

- 23 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment lines is being constructed by fellerbunchers, and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees.

Machinery and feller bunchers will continue are felling larger trees, shifting logs, and extending a contingency control line to enhance the fire break there in anticipation of the E wind, which is forecasted for today on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with overnight work.

Fire observers continue working throughout fire grounds including providing helicopter observation of areas which have potential for spotting.

Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.

Thursday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

3 drone teams will survey the fire lines overnight Saturday to look at extent of containment lines for updates Sunday morning.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer will also monitor the Atawhai Road fire.

8. Factors,

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Forecasted winds will again turn northerly to 20km gusting to 40km by afternoon. The wind strength and smoke is proving challenging for aerial operations at times.

Relative humidity is tracking as expected for Saturday with moderate temperatures and high relative humidity supporting firefighting.

9. Predicted Incident Development

Weather forecasts are being updated every two hours, so we always have current information.

Weather conditions are reaching their peak for the day and are in line with those predicted. High RH and low temps will continue through to Monday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon, and the potential for N/NE gusting 30km/hr localised for Monday is being monitored closely.

Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-Iti river in six hours and there would be the possibility of a new fire run on the other side of the Pigeon Valley which would threaten a significant amount of structures on South Pigeon Valley Road. This analysis was reworked Saturday morning and remains unchanged.

10. Prepared by: [REDACTED]

Date/Time:

Authorised by [REDACTED] **(Incident Controller)**

10/2/19 1900hrs

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1. Incident Name Pigeon Valley	2. Operational Period Date 10&11/2/2019 Time 1900 – 0700	INCIDENT OBJECTIVES RF202
3. Overall Incident Objectives <ol style="list-style-type: none"> 1. Ensure the safety of responders and public at all times during the incident 2. Minimise the impact on structures, infrastructure, assets and values during the incident 3. Minimise impact on environment, culture and historic values during the incident 4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident 5. Report on costs on a daily basis by 1800 6. Return community to homes/normal life as soon as practicable 7. Investigate cause (including protect initial ignition site and evidence) 		
4. Strategies to meet objectives <ol style="list-style-type: none"> 1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation. 2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates. 3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection. 4. Cultural/Historical/environmental values identified on incident ground (Actual and projected) 5. Assign fire investigation to determine cause 6. Financial reporting established and continued 7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> • Consider operation delivery to minimise impacts in support of the recovery plan. 		
5. Specific operational tasks for this shift to meet objectives <ul style="list-style-type: none"> • Crew blacking out to 30m in 10m increments • Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads • Protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill. • Create and strengthen firebreaks – focusing on Heines and Foxes Rd. New breaks on Golf Rd linkages • Urban appliances tasked for structure protection Teapot Valley. • Drone hotspot and perimeter surveys. • Tree Felling around Mill • Initial Attack crew on standby 		
5. Prepared by: ██████████	Date/Time: 10/2/19 1900hrs	

1. Incident Name	2. Operational Period Date 10&11/2/2019 Time 1900 – 0700	ORGANISATION ASSIGNMENT RF203	
3. Incident Control Incident Controller [REDACTED] [REDACTED] (NIMT) (Emergency) Deputy IC [REDACTED] (Emergency) Safety Officer [REDACTED] [REDACTED] [REDACTED] (NIMT) (Emergency)		Phone [REDACTED]	Radio Ch
4. Agency Representative - Emergency contacts Lead Agency [REDACTED] FENZ Agency Police [REDACTED] Agency [REDACTED] Agency CDEM [REDACTED] Agency CDEM Duty Phone Agency FENZ Urban Liason [REDACTED] [REDACTED]		Phone [REDACTED]	Radio Ch
5. Planning/Intell Section - Emergency contacts Planning/Intell Manager [REDACTED] Situations Unit [REDACTED] Resources Unit [REDACTED]		Phone [REDACTED]	Radio Ch
6. Logistics Section - Emergency contacts Logistics Manager [REDACTED] (NIMT)		Phone [REDACTED]	Radio Ch
7. Operations Section Operations Manager Deputy Operations Manager Division Alpha Commander Division Xray Commander Division Yankee Commander Division Zulu Commander Division Atawhai Commander		Phone Radio Ch [REDACTED]	

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Air Division – Drone	[REDACTED]	
Air Division Commander	[REDACTED]	
8. Prepared by:	[REDACTED]	Date/Time: 10/2/19 1900hrs

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1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700		DIVISION ASSIGNMENT RF204a	
3. Division Alpha		4. Description Point of ignition to Dove Saddle on Eder Rd			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
D65 Dozer					
D7 Dozer					
210 Excavator					
772-4 Grader					
850-2 Dozer					
NFM 8px Crew					
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> • A1 Monitor and patrol to boundary at ford into A2 • A2 Monitor Eder and Cuthill roads, especially around the area where burn took place in Zulu 1 Crews blackening out to 30m in 10m increments where safe to do so Widen Heines and Foxes Rd to Sunrise Valley Cut break from Eder Rd to ~6.5k mark then down prominent ridge to Forest Rd at A1/A2 junction <p>Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)</p>					
8. Division Communications				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager ██████████				██████████	
9. Prepared By: ██████████				Date/Time 10/2/19 1900hrs	

1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700		DIVISION ASSIGNMENT RF204a	
3. Division Xray		4. Description Division from Cut hill Johnsons Rd to CHH saw mill			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████		██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
██████████ Packer Crew					
AFM Crew					
Appleby Crew					
Brightwater Tank 5075+ Crew					
Upper Takaka CAF + Crew					
RT 210B Excavator					
RT 210A Excavator					
RD JD850 Dozer					
Higgins Tanker					
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> • X1 Mop up and patrol following prescribed burn. Blacken out to 30m • X2 Patrol and protect structures • X3 Monitor Area <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000 Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
8. Division Communications				Phone	
Operations Manager		██████████		██████████	
10. Prepared By: ██████████				Date/Time 10/2/19 1900hrs	

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1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700		DIVISION ASSIGNMENT RF204a	
3. Division Yankee		4. Description Bennets Road to CHH saw mill at Eves Valley			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████			
6. Resources Assigned this Period					
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>		
Wainui 541 – Defence crew					
Upper Takaka + 5px	Last night				
210 Excavator					
240 Excavator					
336 Excavator					
D8 Dozer					
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> • Y1 Mop up and patrol, aim for blackening to 30 from perimeter • Y2 Tree felling machinery to remove Eucalyptus around mill. Patrols to protect mill and surrounding structures <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
8. Division Communications			Phone	Radio Ch	
Operations Manager	██████████		██████████		
11. Prepared By: ██████████			Date/Time 10/2/19 1900hrs		

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1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700		DIVISION ASSIGNMENT RF204a	
3. Division Zulu		4. Description Point of ignition to CHH saw mill			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████			
6. Resources Assigned this Period					
Sector		Supervisor		Crews	
AFM Crew 5px		Last night 11th			
██████ Bears Smoke Chase					
Maraharu VRRF smoke Chaser					
██████ Bears Tanker					
Tapawera 01 + 10px					
Brightwater 5071 – Rural Appliance					
Takaka 391 Urban appliance					
Wainui Urban appliance					
D8 Dozer					
155-6 Dozer					
21T Excavator					
26T Excavator					
7. Division Assignment/Special Instructions					
Z1 Rural patrol along pigeon and Wai-iti streams Structure protection in pigeon valley Blackening out to 30m					
Z2 Structure protection in Teapot Valley Fire break from Bradley's gate up ridge to Golf Rd, along Watkins Lane and down ridge to sealed area of Golf Rd. Continue to construct mechanical break down track on peninsular in Z1 to Z2 (Cooks Rd area)					
Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.					
8. Division Communications			Phone	Radio Ch	
Operations Manager ██████████			██████████		
12. Prepared By: ██████████			Date/Time 10/2/19 1900hrs		

1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700		DIVISION ASSIGNMENT RF204a	
3. Division Atawhai		4. Description			
5. Division Commander	Affiliation	Phone		Radio Ch	
		[REDACTED]			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Night					
Tasman Smoke Chaser + 2px					
7. Division Assignment/Special Instructions Ground crew to continue to mop out and blacken out. Deeper seated spots need to be dug out.					
8. Division Communications				<i>Phone</i>	
<i>Radio Ch</i>					
Operations Manager		[REDACTED]		[REDACTED]	
13. Prepared By: [REDACTED]				Date/Time 10/2/19 1900hrs	

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1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700		DIVISION ASSIGNMENT <small>RF204a</small>	
3. Division Structure protection		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> • Coordinate resources and response to meet requirements of the IAP work assignments as requested from logistics • Any activities within geographical divisions must be under the direction and control of the geographical division commander • Urban division also responsible for adequate rotation and replenishment of Urban crews 					
8. Division Communications				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████	██████████	██████████	Fire 1/Cellphone
Air Division Commander		██████████	██████████	██████████	Fire 4/Cellphone
14. Prepared By: ██████████				Date/Time 10/2/19 1900hrs	

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1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700		DIVISION ASSIGNMENT RF204a	
3. Division Initial Attack		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> Be available at FCP for immediate response to any new breakout or urgent support required 					
8. Division Communications				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████		██████████	Fire 1/Cellphone
Air Division Commander		██████████		██████████	Fire 4/Cellphone
15. Prepared By: ██████████				Date/Time 10/2/19 1900hrs	

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1. Incident Name Pigeon Valley		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700			AIR OPERATIONS PLAN RF208	
3. Personnel and Communications						
Position	Name	Affiliation	Phone	Radio Chan		
Air Div Commander	[REDACTED]		[REDACTED]			
Air Division – Drone						
4. Air Resource Assignments						
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name	Telephone Numbers
Interpine	RPAS / UAV	PINES1		Fire 4	[REDACTED]	
Interpine	RPAS / UAV	PINES2		Fire 4		
Usar	RPAS / UAV	PINES2		Fire 4		
5. Location of Filling Points/Service Areas						
Name				Grid Reference		
Heli base				-41.31777, 137.10987		
Fixed wing				41 22 39.9 S 173 05 04.6 E		
6. Safety Notes / Hazards / Radio Coverage Limitations						
7. Air Operations Special Equip or Service						
Drone operations						
1. Full perimeter survey of containment to 30m						
2. Atawhai – Full hotspot survey and aerial map before sunset						
3. Observation platform for Zulu overnight						
8. Prepared By: [REDACTED]				Date/Time: 10/2/19 1900hrs		

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1. Incident Name		2. Operational Period		COMMUNICATIONS	
Pigeon Valley		Date 10&11/2/2019 Time 1900 – 0700		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 Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankie	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Division Bravo	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		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
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)					
Resources	resources@FENZNelsonIMT.com				
Safety	safety@FENZNelsonIMT.com				
Logistics	logistics@FENZNelsonIMT.com				
PIM	pim@FENZNelsonIMT.com				
Planning	planning@FENZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fireemergency.nz		[REDACTED]		
Situation / GIS / Intel	situation@FENZNelsonIMT.com				
Operations	operations@FENZNelsonIMT.com				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS		https://www.facebook.com/groups/1924082991035550/		
6. Prepared by: [REDACTED]				Date/Time 10/2/19 1900hrs	

1. Incident Name Pigeon Valley	2. Operational Period Date 9&10/2/2019 Time 1900 - 0700	SAFETY PLAN RF209
3. General Safety Points <p>Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).</p> <p>Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.</p>		

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"> 1. conditions and forecasts 2. Know what your fire is doing at all times. 3. Base all actions on current and expected fire behaviour of the fire. 4. Identify escape routes and safety zones and make them known. 5. Post lookouts when there is possible danger. 6. Stay alert. Keep calm, Think clearly, act decisively. 7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. 8. Give clear instructions and ensure they are understood. 9. Maintain control of your crew/s at all times. 10. Fight fire aggressively having provided for safety first. 	<ol style="list-style-type: none"> 1. Fire size is unknown (no size up). 2. Unfamiliar territory 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. No communications link with crew members or supervisor. 6. Instructions and assignments not clear. 7. Weather is getting hotter, drier and relative humidity dropping 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line 10. Working uphill or down wind of a fire 11. Working on a steep slope 12. Working in rugged terrain 13. Can't see main fire 14. In unburnt vegetation 15. Walking through hot ashes 16. Working alone 17. Getting tired 18. Working near power lines 19. Working near machinery 20. Working with aircraft 21. Working around trees or spars

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4. Specific Safety Points

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point 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 Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Ensure under garments are flame resistant
- Forestry tracks & road speed 20 km/hr. Use beacons/ lights etc. Not response speed!
- Seat belts must be worn at all times
- Big trees with root plates compromised
- Ensure safe distance from felling machines (2 tree lengths ~ 80m minimum)
- Breakfast @ 0600-0800, Lunch @ 1100 – 1300, Dinner 1800 – 2000
- Fatigue campaign fire

5. Prepared By: [REDACTED]

Date/Time 10/2/19 1900hrs

1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700			MEDICAL PLAN RF206					
3. First Aid Station <i>Name</i>		<i>Location</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available at Station</i>				
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 <i>Ambulance Service</i>		<i>Address</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available with Ambulance</i>				
Ambulance St Johns		Closest unit		111		Yes				
5. Hospitals <i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>		<i>Travel Time</i>		<i>Burn Unit</i>	<i>Heli Pad</i>	
						<i>Road</i>		<i>Air</i>		
Nelson Public Emergency		Waimea Rd.		111		27m		4min	y	y
Hutt Hospital (Burn Unit)				111		n/a		40min	Y	y
6. Special Emergency Procedures										
St John will transport patients to whichever health facility is appropriate										
7. Prepared By: [REDACTED] Shift - Manager Nelson					Date/Time 10/2/19 1900hrs					
8. Reviewed by Safety Advisor: [REDACTED]					Date/Time 10/2/19 1900hrs					

1. Incident Name Pigeon Valley	2. Operational Period Date 10&11/2/2019 Time 1900 – 0700	SHORT RANGE FORECAST
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps		

4 pm Sunday – 6 am Monday

Rainfall: None expected

Sustained wind: Currently around 20 km/h NE. Will gradually decrease and turn SW by 11pm, 10 km/h or less overnight.

Wind gusts: Gusts will gradually begin to decrease after 4:30pm. By 6pm gusts of up to 30 km/h are expected and these will continue decreasing thereafter to 15 km/h or less from 11pm onward.

Temperature: Decreasing to near 13°C early morning.

Humidity: 60% and increasing to near 95% after midnight.

6 am – 6 pm Monday

Rainfall: None expected

Sustained wind: Light (~ 5 km/h) W-SW in the morning, gradually increasing and becoming E-NE by 12pm through to 6pm. From 1pm onwards sustained winds could be up to 15 km/h.

Wind gusts: Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm. From 1pm-6pm gusts up to 40 km/h are possible.

Temperature: A maximum of 24-24°C by early-to-mid-afternoon.

Humidity: 95% decreasing to 50% by 2pm and then slightly increasing to 60% by 6pm.

Outlook for Tuesday

Rainfall: Light showers possible but unlikely

Sustained winds: SW up to 10 km/h in the morning turning NE by 10am, increasing to up to 15 km/h by mid arvo. Winds turn SW again ~ 6pm due to frontal passage

Wind gusts: Afternoon gusts up to 35 km/h possible.

Temperature: Min: 13-15°C. Max: 25-26°C.

Humidity: Morning max 95%, afternoon min 50%

Outlook for Wednesday

Rainfall: None expected.

Sustained winds: W-SW, ~ 10km/ in the morning. Turning NE by mid-day and increasing to up to 15 km/h by late arvo.

Wind gusts: Afternoon gusts up to 40 km/h possible.

Temperature: Min: 13-15°C. Max: 26-27°C.

Humidity: Morning max 85%, afternoon min 50%

1. Incident Name Pigeon Valley	2. Operational Period Date 10&11/2/2019 Time 1900 – 0700	FIRE BEHAVIOUR FORECAST
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps		

General Weather Overview

Tonight: NE gradually turning SW by 10pm, 10 km/h or less. Gusts up to 30 km/h at 6pm, gradually decreasing thereafter to 15 km/h or less from 11pm onward. Temp Decreasing to near 13°C early morning. RH 70% and increasing to near 95% after midnight.

Tomorrow Cloud increasing through the day and NE winds dying out. RH reaching 50% mid afternoon and temperatures 23-25. Wind 20km with gusts to 40km

Fire weather @ 1300hrs											
Weather Station	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI
Dovedale											
Feb 9 Actual	23	64	NE	16	0	79	102	477	2.4	133	12.6
Feb 10 Forecast	22	68	NE	10	0	86	105	490	4.2	136	19.5

General Fire Behaviour

Similar burning conditions to Sunday but with significant peak activity in exposed areas and steeper slopes

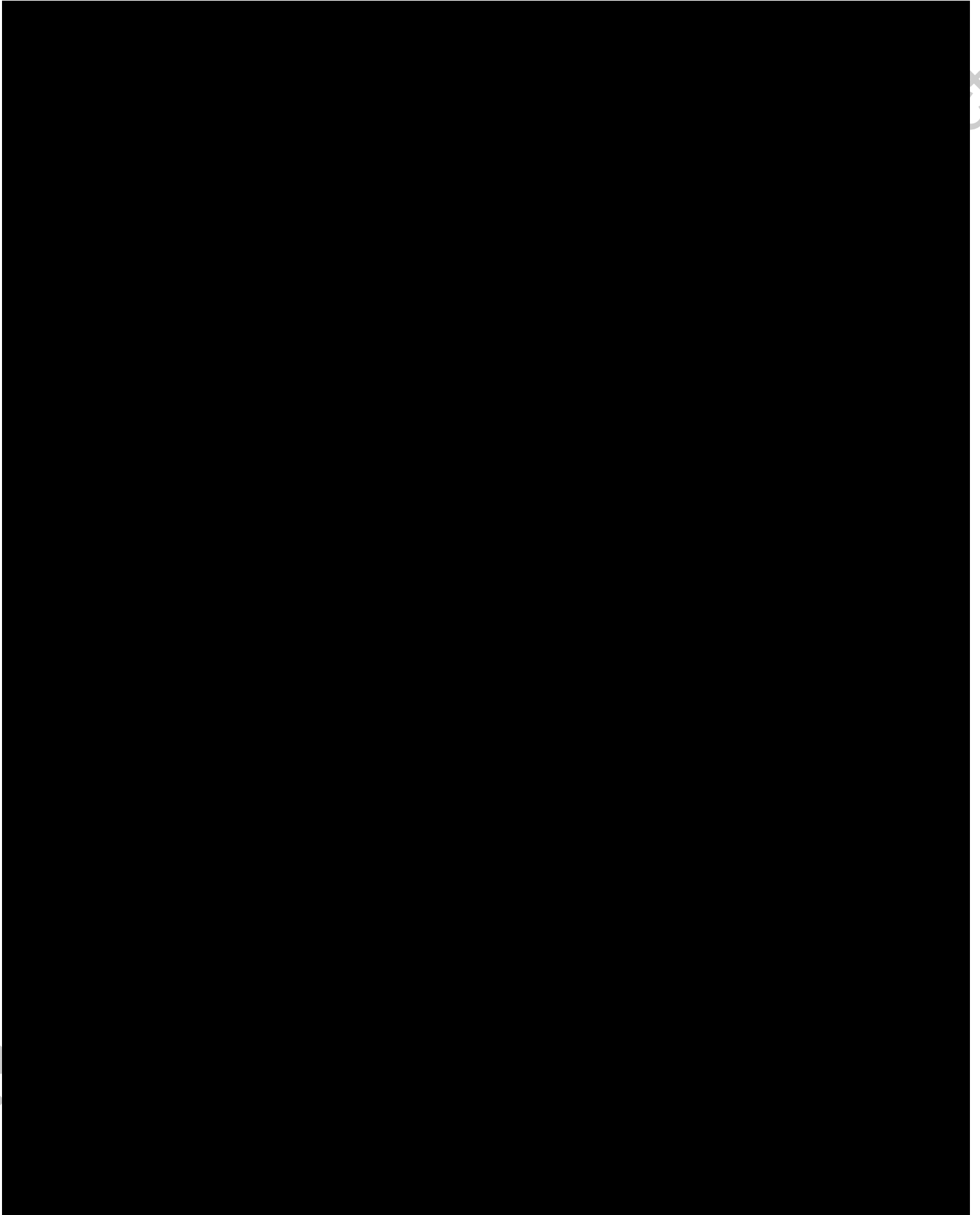
Specific Fire Behaviour			
Fuel Type	Forecast	ROS/ Height (No Suppression)	Peak ROS / Flame height
Mature Pine	185m/hr	3.1m	3,000m/hr 11m
Grass (GC80%,H 0.1m,C100%)	760m/hr	1.6m	7,000m/hr 4.5m

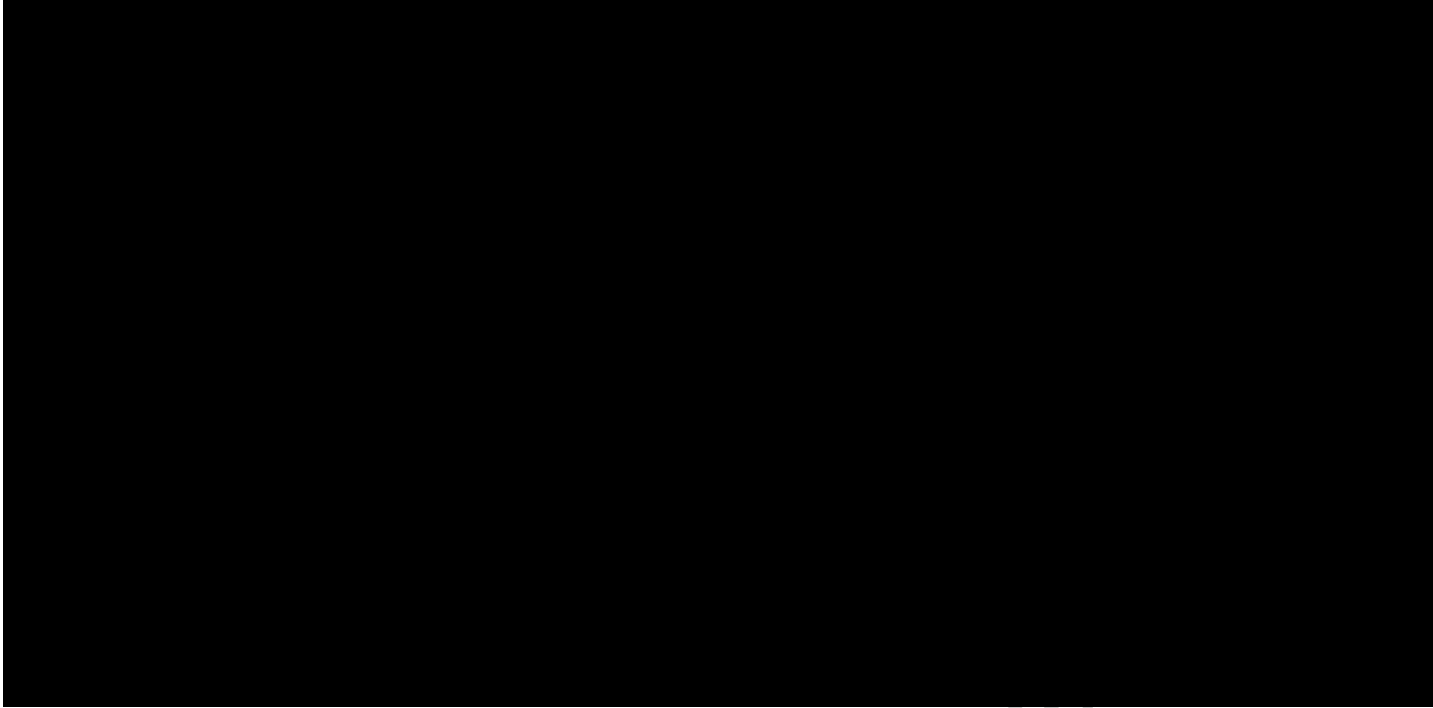
Specific Notes

Good opportunities for ground crew mop up through the morning. As the afternoon weather develops the ground crew mop up will become limited and the need for heavy equipment and air support will increase.

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QR CODES FOR MAP DOWNLOAD





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1. Incident Name

Pigeon Valley Fire, Nelson

Date 10&11/2/2019

Time 1900 – 0700

Public Information Management Plan

Overview of PIM response

The NIMT PIM team is working to support the Nelson Tasman Civil Defence PIM team. It is essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

The overall PIM team is increasing personnel numbers.

NIMT PIM team – for Sunday 10th February

PIM FENZ Manager – [REDACTED]

PIM Liaison – [REDACTED]

Media Officer – [REDACTED]

PIM Support – [REDACTED]

Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager.

PIM meetings:

Ops Briefing 0700hrs
Media Briefing #1 0830hrs
Planning Meeting #1 0900hrs – to be confirmed
Tactics Meeting 1100hrs
Media Briefing #2 1600hrs – to be confirmed
Planning Meeting #2 1700hrs

Key Messages:

- **Attn Cordons:** Media should only be allowed access to cordoned areas and restricted sites if approved and accompanied by a member of the PIM Team. Please be diligent with allowing people through.
- Evacuations are still in place, for more information, go to www.nelsontasmancivildefence.co.nz
- Evacuated residents should check in at the Civil Defence Welfare Centre located at the Saxton Field Stadium or call the Civil Defence Welfare helpline - 03 543 8400
- Media should contact the Media Officer for specific event information and media stand-up information.
- Fire safety messages are: Stay away from the area and follow authorities' instructions. Also help protect your property by creating a 'defensible zone' – Use compost, mulch and remove any section or yard waste materials.

- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0830hrs, 1100hrs, 1500hrs and 1830hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, [REDACTED], [REDACTED], [REDACTED], Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 th Feb @ 5.30pm, Appleby School.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

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Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz
Social media	Main channel is: Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting Monday 11 th February – details TBC.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Media	Schedule
Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1600hrs. 2 hourly Media Releases
Media site visits	
Interviews	Regular interviews with FENZ personnel
Message monitoring	
Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

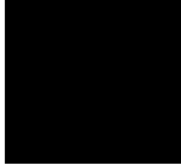
Prepared by: [REDACTED]

Date: 10/2/19 1900hrs

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Sector Supervisors Report (to be completed following shift)	Fire location		Signed		
	S-Supervisor name		Sector Name/Location		
	Shift Start	Date	Shift Start	Date	
		Time		Time	
Crews on your sector					
Crew Name/Company	C-Leader Name	No. Crew	Equipment used that crew supplied		
			Radios	C-saw	H-Tools
Equipment used on the sector					
Pumps (hrs for each pump)	Wajax 1		hrs	Acqualite 1	hrs
	Wajax 2		hrs	Waterous 1	hrs
	Wajax 3		hrs	No Dams Used	
	Wajax 4		hrs		
Hose Lengths	25mm 4lengths=1pk		41mm 3lengths=1pk		70mm
Suppressants	Foam		Litres		Soap Cap
Fire Appliances Used on the sector					
Registration	Type	Driver name	Hourly Usage on site	Other Comments	
Heavy Machinery Used on site					
Registration	Type	Driver name	Hourly Usage on site	Other Comments	



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Incident Name Pigeon Valley	Operational Period	IAP COVER SHEET  RF199
	Date 11/2/2019 Time 0700 - 1900	

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
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA

Approved by Incident Controller: Name 	Signed 	Date/Time 2000 110/2/19
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1. Incident Name Pigeon Valley	2. Operational Period Date 11/2/2019 Time 0700 - 1900	SITUATION REPORT RF201
3. Location Pigeon Rd, Eves Valley, Tasman	4. Vegetation Forest/Scrub/Grass/Slash/ Other:	
<p>Latest information as at 1800 10/2/2019:</p> <p>During the afternoon winds were gusting to 35km in exposed areas. The controlled burn was completed by 1530Hrs and crew patrols and monitoring are as the initiative scales down. The risk of toppling trees within the fireground is being addressed with 8 danger tree assessors sourced from local forestry crews working in pairs and distributed across the sectors. In ZULU sector above Wakefield the control lines were widened extensively with trees removed and taken away from the area. Plans for continued firebreaking work through the nightshift are in place. During the evening 3 drone crew's will be deployed initially tasked with assessing properties and assets with a view to increasing the likelihood of their owners return. They will then survey and assess the perimeter for hot spots to provide direction to ground operations for Monday. Air operations will assess the work program early tomorrow with a view to dropping equipment out of the operation should there not be adequate work. At the Atawhai strong northerlies prevailed through the afternoon.</p> <p>Through the evening the weather will ease and turn SW by 11pm with winds reducing to 10km or less. Monday WSW through the morning gradually increasing and becoming ENE by midday and through to 6pm. From 1-6pm gusts to 40km are possible. Fire weather indices BUI 136 ISI 4.2 and FWI 19.5 are forecast. Through the week the weather will warm and dry with temperatures in the high 20's and RH in the low 50's later in the week. Over the next 14 days there is very low probability of rain exceeding 5mm.</p> <p>Current resources working on the vegetation fire (day shift) are</p> <ul style="list-style-type: none"> - 23 helicopters, two fixed wings plane, 1 drone team - 18 vegetation crews, and 11 structure crews (151 personnel) - 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs - 47 incident management staff. 		

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6. Assessment

A large scrub/ forest fire is currently burning, estimated to be over 2300ha as at 1200hrs on 9 Feb with a perimeter of 25km extending primarily in the pigeon valley area and north western boundary.

Last night 9.4km of the fire perimeter was surveyed by the USAR and Interpine Drone Teams. 1.9km is deemed to be contained (7.6% overall contained) and the other 7.5km was showing thermal activity within 30m of the fire perimeter.

Thursday afternoon, there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning, this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour has been mainly internal, burning throughout Friday, but has extended late evening and throughout the night along an 800m section north of Haytons Rd as the fire progressed upslope. This area has continued to cause concerns of containment throughout Saturday late afternoon. Drone infrared operations will be used throughout the night to capture intelligence that will assist ground operations.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire is backed up on several structures close to the forest boundary on the south-east but is being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of sectors Zulu and Yankee.

Evacuation operations were conducted Friday across Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. This was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced Friday afternoon. With the suppression effort the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030hr, Sat 9 Feb at night when favourable wind and weather conditions helped slow further progression.

A huge effort was invested in this area yesterday and continues today to allow this part of the fire to progressively burn down hill to the riverflats. To date, we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

A telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control and is being wrapped up. Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopters, 4x urban and one rural appliance. Mopping-up operations continue with two crew and a field observer on site.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones.

7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are:

- 23 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment line is being constructed by fellerbunchers and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees.

Machinery and feller bunchers will continue felling larger trees, shifting logs and extending a contingency control line to enhance the fire break in anticipation of the easterly wind, which is forecasted for today on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with work overnight and continuing today.

Fire observers continued working throughout fire-grounds including providing helicopter observation of areas which have potential for spotting.

Black out work, machine fire breaking and hot spot targeting has continued on the other parts of the fire ground.

Thursday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Three drone teams surveyed the fire lines overnight Saturday, to look at extent of containment lines and have updated this morning. We should be able to provide percentages of progress later today.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has continued to monitor the Atawhai Road fire.

Dozer control lines have contained around 92% of the perimeter to a minimum width of 6m, with greater than 10m. We now have a control line extending around the fire perimeter made up of Dozer lines, roadway and river bed.

The plan for a controlled understorey burn on the Cuthill sector has been undertaken today. A media release was timed to go out at the time of ignition.

During the late afternoon yesterday, there was a significant increase in fire activity in the Zulu Div near Cooks Rd, which resulted in a growth of the fire perimeters. This "slop over" was under control by dark yesterday. The area has been measured by drones overnight and amounts to 3ha.

8. Factors

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Forecasted winds will again turn northerly to 20km by afternoon with gusts predicted to 40 kph. The wind strength and smoke are proving challenging for aerial operations at times.

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua today with no concerns.

Relative humidity is tracking as expected for Sunday with higher temperatures than yesterday. We are expecting more active fire behaviour over the fire grounds later this afternoon, especially in Zulu Division.

9. Predicted Incident Development

Weather forecasts are being updated every two hours, so we always have current information.

Through the evening the weather will ease and turn SW by 11pm with winds reducing to 10km or less. Monday WSW through the morning gradually increasing and becoming ENE by midday and through to 6pm. From 1-6pm gusts to 40km are possible. Fire weather indices BUI 136 ISI 4.2 and FWI 19.5 are forecast. Through the week the weather will warm and dry with temperatures in the high 20's and RH in the low 50's later in the week. Over the next 14 days there is very low probability of rain exceeding 5mm.

10. Prepared by: [REDACTED]

Authorised by [REDACTED] **(Incident Controller)**

Date/Time:

1800hrs 10th Feb 2019

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1. Incident Name Pigeon Valley	2. Operational Period Date 11/2/2019 Time 0700 - 1900	INCIDENT OBJECTIVES RF202
3. Overall Incident Objectives <ol style="list-style-type: none"> 1. Ensure the safety of responders and public at all times during the incident 2. Minimise the impact on structures, infrastructure, assets and values during the incident 3. Minimise impact on environment, culture and historic values during the incident 4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident 5. Report on costs on a daily basis by 1800 6. Return community to homes/normal life as soon as practicable 7. Investigate cause (including protect initial ignition site and evidence) 		
4. Strategies to meet objectives <ol style="list-style-type: none"> 1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation. 2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates. 3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection. 4. Cultural/Historical/environmental values identified on incident ground (Actual and projected) 5. Assign fire investigation to determine cause 6. Financial reporting established and continued 7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> • Consider operation delivery to minimise impacts in support of the recovery plan. 		
Specific operational tasks for this shift to meet objectives <ul style="list-style-type: none"> • Crew blacking out to 30m in 10m increments • Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads • Urban appliances tasked for protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill. • Heavy Machinery to create and strengthen firebreaks – focusing on Heine’s and Foxes Rd. New breaks on Golf Rd linkages • Tree Felling around Mill safe to do so • Initial Attack crew on standby from FOP • Aircraft to support ground operations 		
5. Prepared by: ██████████	Date/Time: 1900 8/2/19	

1. Incident Name	2. Operational Period Date 11/2/2019 Time 0700 - 1900	ORGANISATION ASSIGNMENT RF203
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3. Incident Control	Phone	Radio Ch
Incident Controller [REDACTED] (NIMT)	[REDACTED]	
Deputy IC [REDACTED]		
Information Officer		
Safety Officer [REDACTED] (NMIT)		
Liaison Officer		

4. Agency Representative	Phone	Radio Ch
Lead Agency [REDACTED] FENZ	[REDACTED]	
Agency Police [REDACTED]		
Agency [REDACTED]		
Agency CDEM [REDACTED]		
Agency CDEM Duty Phone		
Agency FENZ Urban Liason [REDACTED] [REDACTED]		

5. Planning/Intell Section	Phone	Radio Ch
Planning/Intell Manager	[REDACTED]	
Situations Unit		
Resources Unit		
Management Support Unit		
Information Unit		
Advance Planning Unit		
Fire investigation [REDACTED]	[REDACTED]	

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		Phone	Radio Ch
6. Logistics Section			
Logistics Manager	██████████ (NMIT)	██████████	
Supply Unit	██████████		
	██████████		
	██████████		
Catering Unit			
Facilities Unit	██████████		
	██████████		
Finance Unit	██████████		
Communications Unit	██████████		
Medical Unit	██████████		
7. Operations Section			
Operations Manager	██████████		
Deputy Ops Manager	██████████		
Ops planning Manager	██████████		
Division Alpha	██████████		
Division Xray	██████████		
Division Yankee	██████████		
Division Zulu	██████████		
Division Atawhai	██████████		
Air Division Commander	██████████		
Air Attack Supervisor	██████████		
	██████████		
Air Attack Supervisor(Trainee)	██████████		
Air Support Supervisor	██████████		
	██████████		
8. Prepared by: ██████████		Date/Time: 1900 10/2/19	

Released under Information Act

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Alpha		4. Description Point of ignition to Dove Saddle on Eder Rd			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████	Command: Fire Crew: Simplex		
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Bulldozer D7		TLC			
Excavator 20 T		TLC			
JNL + 4 PX					
Ngatimoti 5325 Smoke Chaser +2					
Doc Hauraki 5px					
Rai Silviculture 16px					
Tasman 2 tanker					
DOC S. Canterbury 8px					
Dangerous Tree Assessor 4px					
<p>A1 Dozer to continue to widen Rout Rd. Smoke chaser and crews blacking out to 30 m in 10m increments along perimeter where possible and safe. Structure protection in Sharps Rd Valley area</p> <p>A2 Push new line down Eder Rd to 6.5km mark then down the prominent ridge to Forestry Rd and down to A1/A2 boundary Mop up with ground crews from yesterdays burn</p> <p>DTA – Assess, mark and gps all hazardous trees with a particularly focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.</p> <p>Helicopters to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 to request</p> <p>Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)</p>					
8. Division Communications			Phone	Radio Ch	
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
9. Prepared By: ██████████			Date/Time 1900 10/2/19		

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Xray		4. Description Division from Cut hill Johnsons Rd to CHH saw mill			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████	Fire 5		
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
DOC Blenheim - USA 1 12px					
D155 Dozer					
Nicholson Tanker		13,000 L			
Excavators x4					
Appleby Tanker					
Smoke Chaser Wainui 3px					
NZDF RFA x7px					
Invercargill Crew + 5 PX					
Otago Crew + 5 PX					
Wainui 9572 5px					
Dangerous Tree Assessor 4px					
<p>X1 Mop up with ground crews following yesterdays burn. Continue widening and patrolling Cut Hill Rd to Moutere saddle and assist on Johnsons Rd if required</p> <p>X2 Check and enhance perimeter around structures. Ground crews to mop up and patrol.</p> <p>X3 Monitor only, no operations required at this stage.</p> <p>DTA – Assess, mark and gps all hazardous trees with a particularly focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000 Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
8. Division Communications				Phone	
Radio Ch					
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
10. Prepared By: ██████████				Date/Time 1900 10/2/19	

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Yankee		4. Description Bennets Road to CHH saw mill at Eves Valley			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████	Wakefield VFB	██████████	Fire 3		
6. Resources Assigned this Period					
Sector		Supervisor		Crews	
2x Excavator 20T		Taylors			
Bulldozer D8		Taylors			
Brightwater 5026 + 4px					
Rural Tanker Downers + 1px					
Brightwater 5071 + 3px					
Wanuiomata 441 5px					
Richmond 331 4x					
Ngatimoti 5375 + 4px					
Wellington 2 + 5 PX					
West Coast 8 PX And Smoke Chaser and Tanker					
Dangerous Tree Assessor 4px					
<p>Y1 Push fire line in from Eder Rd and continue to widen Eder Rd Monitor existing fire break</p> <p>Y2 Continue felling Eucalyptus trees around Eves Valley Mill Protect Mill and surrounding structures</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>DTA – Assess, mark and gps all hazardous tress with a particularly focus around structures and within 60m of roads and 60m from the black edge.</p> <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
8. Division Communications				Phone	
Operations Manager		██████████		Fire 1/Cellphone	
Air Division Commander		██████████		Fire 4/Cellphone	
11. Prepared By: ██████████				Date/Time 1900 10/2/19	

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Zulu		4. Description Point of ignition to CHH saw mill			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████	Fire 2		
6. Resources Assigned this Period					
Sector		Supervisor		Crews	
Radio Ch					
4x Excavator 20T		TLC			
D65 Dozer		██████████			
Watertanker					
Pumicelands 7px					
South Canterbury 10px					
Lake Rotoiti + 4 PX					
Newlands 291 4px					
NZDF RFA 3px					
Wellington 1 + 5 PX					
Auckland 1 5px					
Tapawera 4wd tanker					
Dangerous Tree Assessor 4px					
<p>Z1 Protection of cell tower with aircraft only Maintain mobility in this sector react to any break out (smoke chasers, 4wd tankers). Prioritise this area due to large number of structures. Strengthen vegetation break between Pigeon Creek and vehicle/machinery yard and continue to the North to the road near the small bridge across dry creek.</p> <p>Z2 Check access into and petrol McCalls, Tea Pot Valley and Bennits Roads. Protection of dairy farm and structures Ground crews continue to mop up. Protection of structures near top of Drones by extending defensible space.</p> <p>DTA – Assess, mark and gps all hazardous tress with a particularly focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.</p>					
8. Division Communications				Phone	Radio Ch
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
12. Prepared By: ██████████				Date/Time 1900 10/2/19	

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Atawhai		4. Description			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████	FENZ	██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Hawkes Bay Crew – 5px					
716 smoke chaser					
Dangerous Tree Assessor 2px					
7. Division Assignment/Special Instructions					
Ground crews continue to mop up and blacken out.					
Deeper seated spots will need to be dug out.					
DTA – Assess, mark and gps all hazardous tress with a particularly focus around structures and within 60m of roads and 60m from the black edge.					
8. Division Communications				<i>Phone</i>	
Operations Manager _____				<i>Radio Ch</i>	
13. Prepared By: ██████████				Date/Time 1900 10/2/2019	

Released under the Official Information Act

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Structure protection		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
Nelson 212 4px					
Nelson 213 4px					
Takaka 391 4px					
Nelson 2118 2px					
2 excitative offices					
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> • Coordinate resources and response to meet requirements of the IAP work assignments as requested from logistics • Any activities within geographical divisions must be under the direction and control of the geographical division commander • Urban division also responsible for adequate rotation and replenishment of Urban crews 					
<p>NB Additional resources are available through firecom if required</p>					
8. Division Communications				<i>Phone</i>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				<i>Radio Ch</i>	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
14. Prepared By: ██████████				Date/Time 1900 10/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT <small>RF204a</small>	
3. Division Initial Attack		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> Be available at FCP for immediate response to any new breakout or urgent support required 					
8. Division Communications				<i>Phone</i>	
Operations Manager				[REDACTED]	
Air Division Commander				[REDACTED]	
				<i>Radio Ch</i>	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
15. Prepared By: [REDACTED]				Date/Time 1900 10/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Property Assessments		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
██████████		FENZ Liaison			
7. Division Assignment/Special Instructions					
<ol style="list-style-type: none"> The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation. Fire danger risk assessments will be completed for each property, surrounding area and access routes. The risk assessments will include work on danger trees, condition of surrounding flammable fuels and built structures. These will be reviewed in relation to incident status and predicted weather. The assessments will include staff from Civil defence, FENZ and specialist contractors as required. Liaison communications will be maintained with division commanders at all times when on the incident ground Timeline for the assessments to be confirmed 					
8. Division Communications				<i>Phone</i>	
				<i>Radio Ch</i>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
16. Prepared By: ██████████				Date/Time 1900 8/2/19	

Released under the Official Information Act

1. Incident Name Pigeon Valley	2. Operational Period	Date 11/2/2019 Time 0700 - 1900	AIR OPERATIONS PLAN RF208
3. Personnel and Communications			
Position	Name	Affiliation	Phone
Air Div Commander	[REDACTED]		
Air Attack Supervisor	[REDACTED]		Fire 4
	[REDACTED]		
	[REDACTED]		
Air Attack Supervisor(Trainee)	[REDACTED]		
Air Support Supervisor	[REDACTED]		
	[REDACTED]		
Lead Helicopter Pilot	[REDACTED]		
Lead Fixed-Wing Pilot			
5. Location of Filling Points/Service Areas			
Name		Grid Reference	
Heli base		-41.31777, 137.10987	
Fixed wing		41 22 39.9 S 173 05 04.6 E	
6. Safety Notes / Hazards / Radio Coverage Limitations			
7. Air Operations Special Equip or Service			
<ul style="list-style-type: none"> Retardent filling crew (Fixed Wing) - [REDACTED] Bryant Earthworks - [REDACTED] <ul style="list-style-type: none"> 2x dip trucks 1x dip truck and trailer 5x support tankers 			
8. Prepared By: [REDACTED]		Date/Time: 1900 8/2/19	

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Company Name	Aircraft Type	Rego/Call Sign	Pilots Name	Bucket Size	Contact Number	Availability
Rotary						
Beck's	UH-1	HHF	[REDACTED]	1500L	[REDACTED]	Available
	UH-1	HHB		1500L		Available
Helicharter	500D	HXX		500L		Available
Garden City Heli	B3	IHL		1100L		Available
	EC130	IGF		1000L		Available
	BK	IVB		1100L		Available
Reid Heli	B2	HPE		900L		Available
	FX2	HEX		1000L		Available
	B2	HAA		1000L		Available
	B2	IOR		Platform		Available
Southern Heli Lift	UH-1L	HUE		1500L		Available
Marlborough Heli	Long Ranger	HTA		650L		Available
Skyworks	B3	HWW		1050L		Available
Amuri Heli	FX2	HJM		1000L		Available
Anderson	B2	HKA		1000L		Available
Independent Heli	EC130	IWS		1000L		Available
Christchurch Heli	B2	HNC		1000L		Available
Wanaka Heli	B2	HFF		1000L		Available
Mt Hutt Heli	BA	HYS		700L		Relief Aircraft
	BA	HDQ		700L		Available
Heliventures	B2	IER	1000L	Available		
Murchison Heli	BA	ILW	680L/Platform	Available		
Wellington Heli	EC130	IWN	880L	14hrs remaining		
Fixed Wing						
[REDACTED]	Cresco		[REDACTED]			Available
[REDACTED]	Airtractor		[REDACTED]			Available
Drone						
Interpine	RPRS/UAV	PINES1	[REDACTED]		[REDACTED]	
Interpine	RPRS/UAV	PINES2	[REDACTED]		[REDACTED]	
USAR	RPRS/UAV	PINES2	[REDACTED]		[REDACTED]	

Released under
 Information Act

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		COMMUNICATIONS PLAN RF205	
3. Radio Channels					
Assigned To	Function	Channel	Frequency	System	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankee	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
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		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
4. Telephone					
Assigned To	Landline	Cell phone	Fax	Comments	
Emergency		111			
Regional Command Centre (RCC)					
6. Other (e.g. email, Satphone, etc)					
Resources	resources@FENZNelsonIMT.com				
Safety	safety@FENZNelsonIMT.com				
Logistics	logistics@FENZNelsonIMT.com				
PIM	pim@FENZNelsonIMT.com				
Planning	planning@FENZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fireemergency.nz			[REDACTED]	
Situation / GIS / Intel	situation@FENZNelsonIMT.com				
Operations	operations@FENZNelsonIMT.com				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			https://www.facebook.com/groups/1924082991035550/	
6. Prepared by: [REDACTED]				Date/Time 1900 8/2/19	

1. Incident Name Pigeon Valley	2. Operational Period Date 11/2/2019 Time 0700 - 1900	SAFETY PLAN RF209
3. General Safety Points <p>Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).</p> <p>Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.</p>		

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"> 1. conditions and forecasts 2. Know what your fire is doing at all times. 3. Base all actions on current and expected fire behaviour of the fire. 4. Identify escape routes and safety zones and make them known. 5. Post lookouts when there is possible danger. 6. Stay alert. Keep calm, Think clearly, act decisively. 7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. 8. Give clear instructions and ensure they are understood. 9. Maintain control of your crew/s at all times. 10. Fight fire aggressively having provided for safety first. 	<ol style="list-style-type: none"> 1. Fire size is unknown (no size up). 2. Unfamiliar territory 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. No communications link with crew members or supervisor. 6. Instructions and assignments not clear. 7. Weather is getting hotter, drier and relative humidity dropping 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line 10. Working uphill or down wind of a fire 11. Working on a steep slope 12. Working in rugged terrain 13. Can't see main fire 14. In unburnt vegetation 15. Walking through hot ashes 16. Working alone 17. Getting tired 18. Working near power lines 19. Working near machinery 20. Working with aircraft 21. Working around trees or spars

Released under the Official Information Act

4. Specific Safety Points

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point 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 Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Ensure under garments are flame resistant
- Forestry tracks & road speed 20 km/hr. Use beacons/ lights etc. Not response speed!
- Seat belts must be worn at all times
- Big trees with root plates compromised
- Ensure safe distance from felling machines (2 tree lengths ~ 80m minimum)
- Breakfast @ 0600-0800, Lunch @ 1100 – 1300, Dinner 1800 – 2000
- Fatigue campaign fire

5. Prepared By: [REDACTED]

Date/Time 1900 9/2/19

1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900		MEDICAL PLAN RF206			
3. First Aid Station Name		Location	Phone/Radio Channel	Paramedics available at Station			
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		Closest unit	111	Yes			
5. Hospitals		Address	Phone	Road	Travel Time	Burn Unit	Heli Pad
Hospital Name				Air			
Nelson Public Emergency	Waimea Rd.	111	27m	4min	y	y	
Hutt Hospital (Burn Unit)		111	n/a	40min	Y	y	
6. Special Emergency Procedures							
St John will transport patients to whichever health facility is appropriate							
7. Prepared By: [REDACTED]			Shift - Manager Nelson		Date/Time 1900 8/2/19		

1. Incident Name Pigeon Valley	2. Operational Period Date 11/2/2019 Time 0700 - 1900	SHORT RANGE FORECAST
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps		

4 pm Sunday – 6 am Monday

Rainfall: None expected

Sustained wind: Currently around 20 km/h NE. Will gradually decrease and turn SW by 11pm, 10 km/h or less overnight.

Wind gusts: Gusts will gradually begin to decrease after 4:30pm. By 6pm gusts of up to 30 km/h are expected and these will continue decreasing thereafter to 15 km/h or less from 11pm onward.

Temperature: Decreasing to near 13°C early morning.

Humidity: 60% and increasing to near 95% after midnight.

6 am – 6 pm Monday

Rainfall: None expected

Sustained wind: Light (~ 5 km/h) W-SW in the morning, gradually increasing and becoming E-NE by 12pm through to 6pm. From 1pm onwards sustained winds could be up to 15 km/h.

Wind gusts: Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm. From 1pm-6pm gusts up to 40 km/h are possible.

Temperature: A maximum of 24-24°C by early-to-mid-afternoon.

Humidity: 95% decreasing to 50% by 2pm and then slightly increasing to 60% by 6pm.

Outlook for Tuesday

Rainfall: Light showers possible but unlikely

Sustained winds: SW up to 10 km/h in the morning turning NE by 10am, increasing to up to 15 km/h by mid arvo. Winds turn SW again ~ 6pm due to frontal passage

Wind gusts: Afternoon gusts up to 35 km/h possible.

Temperature: Min: 13-15°C. Max: 25-26°C.

Humidity: Morning max 95%, afternoon min 50%

Outlook for Wednesday

Rainfall: None expected.

Sustained winds: W-SW, ~ 10km/ in the morning. Turning NE by mid-day and increasing to up to 15 km/h by late arvo.

Wind gusts: Afternoon gusts up to 40 km/h possible.

Temperature: Min: 13-15°C. Max: 26-27°C.

Humidity: Morning max 85%, afternoon min 50%

1. Incident Name Pigeon Valley	2. Operational Period Date 11/2/2019 Time 0700 - 1900	FIRE BEHAVIOUR FORECAST
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps		

General Weather Overview
Tonight: NE gradually turning SW by 10pm, 10 km/h or less. Gusts up to 30 km/h at 6pm, gradually decreasing thereafter to 15 km/h or less from 11pm onward. Temp Decreasing to near 13°C early morning. RH 70% and increasing to near 95% after midnight.
Tomorrow Cloud increasing through the day and NE winds dying out. RH reaching 50% mid afternoon and temperatures 23-25. Wind 20km with gusts to 40km

Fire weather @ 1300hrs											
Weather Station	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI
Dovedale											
Feb 9 Actual	23	64	NE	16	0	79	102	477	2.4	133	12.6
Feb 10 Forecast	22	68	NE	10	0	86	105	490	4.2	136	19.5

General Fire Behaviour
Similar burning conditions to Sunday but with significant peak activity in exposed areas and steeper slopes

Specific Fire Behaviour			
Fuel Type	Forecast	ROS/ Height (No Suppression)	Peak ROS / Flame height
Mature Pine	185m/hr	3.1m	3,000m/hr 11m
Grass (GC80%,H 0.1m,C100%)	760m/hr	1.6m	7,000m/hr 4.5m

Specific Notes
Good opportunities for ground crew mop up through the morning. As the afternoon weather develops the ground crew mop up will become limited and the need for heavy equipment and air support will increase.

1. Incident Name Pigeon Valley	2. Operational Period Date 11/2/2019 Time 0700 - 1900	MAPS RF
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps		

QR CODES FOR MAP DOWNLOAD

