11:35pm 5/2/19

antil 700

notial Attach

Incide	ent Management Structure	(1) 上的建物基础		
Prepa Positi Date/t Build/I positio , name	red by: on: ime: Draw your structure and fill in ons es & radio call signs [RCS] Planning/Intelligence Name RCS Situation Resources Management suppor	Incident Controller Name RCS Operations Name RCS	Name RCS Supplies Facilities Communication Medical	polistics
	veture Protection (FCP) (ICP) Lotur Protection Craw		Finance Runa Arass 2 S Prof	1 Crows tractive tection
Opera Sector	Resource Plagges NPT Annul Weller	Task Create Waher Flying in Bann	Grid Paints	Tasked at hrs 23 30 18 00

Any Question Ring

IAP Cover Sheet

INCIDE	NT ACTION PLAN	
The items checked beloe SITUATION REPORT INCIDENT OBJECTIVE ORGANISATIONAL IS SECTOR ASSIGNME DIVISIONAL ASSIGN AIR OPERATIONS PI COMMUNICATION SAFETY PLAN MEDICAL PLAN FIRE MAP WEATHER FORECAS FIRE BEHAVIOUR FO FACILITIES LAYOUT	IST NT IMENT LAN PLAN ORECAST	n Plan
Approved by Incident Controller:	Signed	Date/Time



1. Pigeon Valley	2. 6Feb2019 0700 to 1900		

Situation Report

RF201

1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 6 th Feb 20	REPORT
	Time 04:30	RF201
3. Location	4. Vegetation	5. NZ TM Grid Ref.
Pigeon Rd, Eves Valley	Forest/Scrub/Grass/Slash/	41°22'32.51"S
,Tasman		173° 1'31.81"E

6. Assessment

A large scrub/ forest fire is currently burning estimated to be 1870ha at 00:30 hrs with a perimeter of 20km.

Values at risk are life and property.

We have unconfirmed reports of potential property losses in Eves Valley and Redwood Valley

The Eves Valley sawmill is at risk and fire crews are carrying out structural protection on structures.

Evacuations have occurred in the

- Eves Valley,
- Golden Hills Rd,
- Redwood Valley Rd
- Mallings Rd
- Greenacres Rd

We have confirmed records of 74 households (97 people) evacuated.

Notice of potential evacuations in place for Sunrise Valley (top end), Deepdale Rd (Upper Moutere), Pigeon Valley and South Pigeon Valley.

Crews are working in these areas as much as they can do safely, but fire conditions are proving challenging. At times crews have needed to retreat from property protection as dense smoke and ember attack meant conditions were too dangerous.

Prepared by: Date	ate:6Feb2019	Time: 0445
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1. Pigeon Valley

2. 6Feb2019 0700 to 1900

7. Action taken

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

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

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

8. Factors

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

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

9. Predicted Incident Development

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

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

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

10. Prepared by:	Date/Time 04:30 6 th Feb 2019
Authorised by (Incident	
controller)	

Prepared by:	Date:6Feb2019	Time: 0445

Incident Objectives

RF202

3. Overall Incident Objectives

Protect life (Public and Residents)

Protect Property

Identify and keep stakeholders informed

Ensure Firefighter Safety

Identify and protect Critical Infrastructure

Transition to NIMT using shadow process by 1500hrs

Protect Other Assets (Forests, crop etc)

Prepare for Northerly Wind Change

Contain then Extinguish fire

4. Objectives for specified Operational Period

Protect life (Public and Residents)

Identify and keep stakeholders informed

Allow for Firefighter Safety

Identify and protect Critical Infrastructure

Transition to NIMT by 1500hrs

Establish High volume Water Supplies

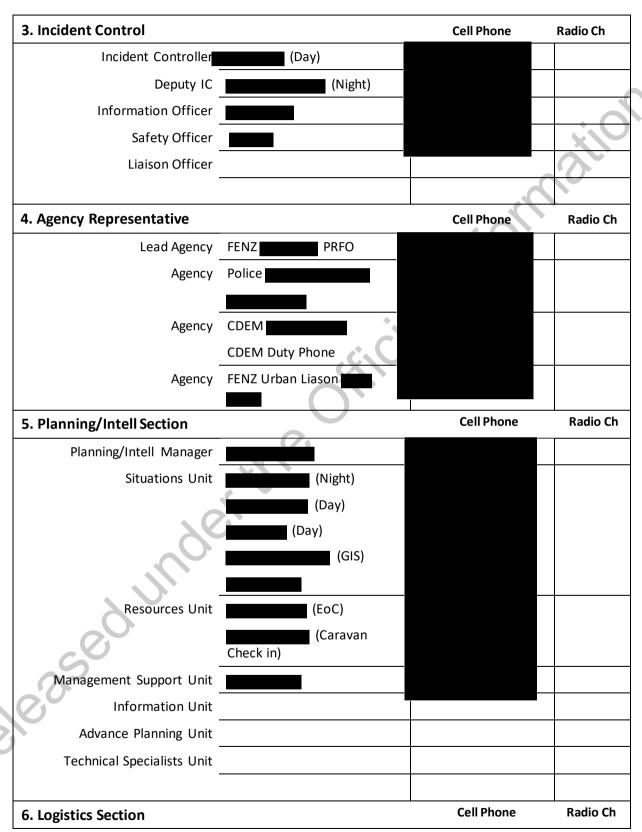
Protect property and critical infrastructure be establishing hard containment lines with heavy equipment or Identify opportunities for laying down retardant ahead of wind change to protect property/infrastructure

Establish trigger points with 3hrs lead-time for evacuations

Prepared by: Date:6Feb2019 Time: 0445

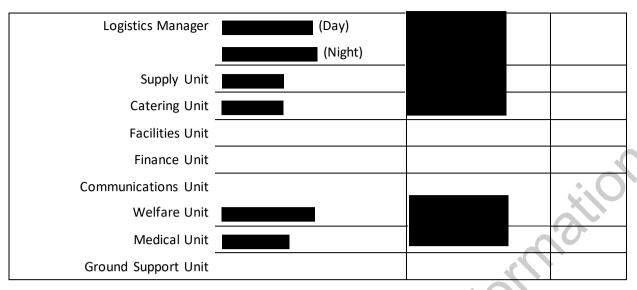
Organisation List

RF203



Prepared by:	Date:6Feb2019	Time: 0445

1. Pigeon Valley 2. 6Feb2019 0700 to 1900



7. Operations Section	Cell Phone	Radio Ch
Operations Manager	Centione	Waimea 1
Operations inlanager		vvaiiiica 1
Deputy Operations Manager		Waimea 1
Division Pigeon Commander	. (Fire 1
Division Hayton Commander		Fire 2
Division Teapot Commander		Fire 3
Division Redwood Commander		Fire 1
Division Moutere Commander		Fire 2
Division Two Commander		
Sector E Supervisor		
Sector F Supervisor		
Sector G Supervisor		
Sector H Supervisor		
Air Division Commander		
Air Attack Supervisor		Fire 4
Air Support Supervisor		
2,0		

1. Pigeon Valley	2. 6Feb2019 0700 to 1900

Sector Assignment

	<u> </u>				1	
3. Sector	4. Description				5. Divisio	n Assigned
						1
6. Sector Supervisor	Affiliation		Cellp	hone	Radio Ch	.0
7. Resources Assigned th	nis period					X
- /-				Transport	Drop-	Pickup
Resource/Crew	Leader	# Pei	rsons	Required	off Point/	Point/time
					time	
				8	\mathbf{O}	
			•			
			C			
		C				
8. Sector Assignment / S	pecial Instruction	s				
		,				
	N/C					
	0					
9. Sector Communication	ns				Phone	Radio Ch
Division/Division Cmdr						
Air Attack Supervisor						
Safety Officer						

Prepared by:	Date:6Feb2019	Time: 0445
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1. Pigeon Valley	2. 6Feb2019 0700 to 1900

3. Pigeon			4.Point of ig	nition to	Dove Saddle		
6. Sector Commander	Affili	iation Cellpho		one	Rad	dio Ch	
	Tasn	nan VI	RFF			Fire	e 1
6. Resources Assigned th	nis Per	iod					
Sector			Supervisor	•	Crews		Radio Ch
2 Taylors D8 jd850		1x H	EQB				
2 Taylors Excavator		1xHE	QB			3	
Tasman VRFF 4px					ζ(
West Coast +	3рх						
1 Smoke chaser + 2px Hi	ra						
1 Appliance + 4px Hira				•			
1 rural tanker							
7. Division Assignment/ Protect Life and Propert Keep Residents and Stak change Dozer to establish hard of Excavator to Establish his Hoult Valley Rd secon Provide Situation Report *Laydown Retardant to	contai gh vo nd t to Si prote	lers in nmen lume tuatio	formed in pro at lines for pro water supplie ons Unit at lea	perty/ir es Wai-it	nfrastructure p i river Baigents	rote	ction first and end of
8. Division Communicati					Phone		Radio Ch
Operations Manager							
Air Division Commander							

Prepared by:	Date:6Feb2019	Time: 0445
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1. Pigeon Valley	2. 6Feb2019 0700 to 1900

3. Haytons			4. Point of i	gnition t	o Teapot Valle	y Rd	end
6. Sector Commander	Affi	liation		Cellphone		Radio Ch	
	Do	C Motu	eka			Fire	2
6. Resources Assigned th	nis Pe	eriod			<u> </u>		X
Sector			Supervisor		Crews		Radio Ch
TLC Bulldozer D7							
TLC Excavator							
Appleby VRFF 4px					&(
North Canterbury							
+3px							
Nelson Lakes VRFF 4px				-			
1x smoke chaser					(O'		
1x appliance)		
2x rural tanker							
7. Division Assignment/	-	ial Inst	ructions				
Protect life and Property Keep Residents and Stake	•	ders in	formed in pr	eparatio	n for potential	nort	h easterly wind
change 1x Excavator establish H	igh \	/olume	Water Point	s Wai-iti	River end of B	ird La	ane
1x Bulldozer for Propert along Haytons Rd	_						
Ground crew begin 5m k	olack	out of	flank				
Provide Situation Repor	~			ast every	two hours		
*Laydown Retardant to		ect pro	perties				
8. Division Communicati					Phone	ı	Radio Ch
Operations Manage							
Air Division Commande	r						

Prepared by:	Date:6Feb2019	Time: 0445
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1. Pigeon Valley	2. 6Feb2019 0700 to 1900

3. Teapot		4.Eves Valle	y Rd to (Golden Hills Rd		
6. Sector Commander	Affiliation	<u> </u> 1	Cellph	one	Radio (Ch
	Wakefield	d VFB/NML			Fire 3	
6. Resources Assigned th	nis Period					X
Sector		Supervisor		Crews		Radio Ch
1 Taylors Bulldozer D8					_ <	
1 Taylors Excavator						•
Wakefield VFB 4px				<u>\$</u> (
DoC crew 4px						
Ngatimoti VRFF 4px						
4x Urban crew			*			
2x rural tankers						
7. Division Assignment/ Protect life and Property Keep Residents and Stak change Establish High Volume W 1x Bulldozer for Propert Eastern Flank/Eder Re Urban crew for Protection Provide Situation Report *Laydown Retardant to	Vater supp Vater supp y/Infrastru d? on of Eves V	nformed in pro ly end of Bells cture Protecti Valley Mill or o ons Unit at lea	rd Wai i on first, other pro	ti River with Ex Establish hard operties as req	cavator contain	
8. Division Communicati				Phone	Ro	adio Ch
Operations Manager						
Air Division Commander	<u> </u>					

Prepared by:	Date:6Feb2019	Time: 0445
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1. Pigeon Valley	2. 6Feb2019 0700 to 1900

3. Redwood	4. Golden Hills Rd to Cut Hill Rd				
6. Sector Commander	Affiliation	Cellphone	Ra	dio Ch	
Urban Officier to be Confirmed	d FENZ		Fir	e 1	
6. Resources Assigned this Per	iod	1			
Sector	Supervisor		Crews	Radio Ch	
1 Dozer Burson D65 Komatsu					
1 TLC Excavator			XO		
AFM 4px					
DoC crew 4px					
		A.C.			
7. Division Assignment/Special Protect Life and Property Keep Residents and Stakehold change Evacuation and notification of Excavator to identify and estal 1x Bulldozer for Property/Infra Contain fire South of Moutere Urban crew for protection of E Provide Situation Report to Sit *Laydown Retardant to protect	ers informed in properties of the properties of	vacuation h volume wate on assisted by t Golden Hills F ous Landfill ist every two h	er supply in e ground crev Rd ours	existing ponds	
8. Division Communications		Phon	е	Radio Ch	
Operations Manager					
Air Division Commander					

Prepared by:	Date:6Feb2019	Time: 0445
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1. Pigeon Valley	2. 6Feb2019 0700 to 1900

3. Moutere		4. Cut Hill Ro	d to Dov	e Hill Saddle	
6. Sector Commander	Affiliatio	n	Cellph	one	Radio Ch
	Bruce Foi	estry			Fire 2
6. Resources Assigned th	nis Period				
Sector	<u> </u>	Supervisor		Crews	Radio Ch
Taylors Hitachi 20T Excavator (on site)				Taylors	TPFL Ops 2
1 TLC Excavator ?				X	O
1 Taylors Dozer					
3x 4px crews TBC 1000h	rs?				
2x 4px mid Canterbury			•	%	
West Coast 4px			C		
		(
7. Division Assignment/ Protect Life and Propert Keep Residents and Stak change Excavator to Identify and 1x Bulldozer for Propert Taylors Excavator to esta Sunrise/Heines rd Provide Situation Report *Laydown Retardant to	y seholders i d Establish y/Infrastru ablish esca t to Situati protect pr	nformed in pre high volume v icture Protection pe route/acce	vater ac on, sunr ss down	cess to existing ise valley, esta Supplejack Va two hours	g ponds blish escape routes illey rd and
8. Division Communicati				Phone	Radio Ch
Operations Manage	-				
Air Division Commande	r				

Prepared by:	Date:6Feb2019	Time: 0445
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3. Personnel and Commu Position		ame	Affiliation	Phone	Radio Chan
Air Div Commander		<u> </u>			7
Air Attack Supervisor					
Air Support Supervisor					
Lead Helicopter Pilot					
Lead Fixed-Wing Pilot					2
4. Air Resource Assignme	nts				
Company	Type of Heli	Call Sign	Capacity	Pilot Name	Contact Details
Garden City Helicopters	B4 Squirrel	IWN	1000L		20000
Marlborough Helicopters	Long Range	HTA	600L		
Independent Helicopters	Squirrel	IMS	1000L		
Amuri Helicopter	Squirrel	HJM	1000L	-	
Anderson Helicopters	B2 Squirrel	HKA	1000L	-	
Christchurch Helicopters	B2 Squirrel	HND	1000L		
Christchurch Helicopters	B2 Squirrel	HFF	1000L		
Mount Hutt Helicopters	Squirrel	HDQ	1000L		
Heli Ventures	Squirrel	IER	1000L		
Beck Helicopters	BellUH1B		1500L		
Beck Helicopters	BellUH1F		1500L		
Fixed Wing					
1 TBC 1200hrs	Cresco				
2 TBC 1200hrs					
3 TBC 1200hrs					
5. Location of Filling Poin	ts/Service A	reas			
Name			Grid R	eference	
Sharp Rd (Divison Pigeon)	41 22 03.7 S	173 00 55.6 E		
Fixed Wings:		41 22 39.9 S	173 05 04.6 E		
airstrip via Teapot Valley					

Prepared by: Date:6Feb2019 Time: 0445		
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1. Pigeon Valley	2. 6Feb2019 0700 to 1900

7. Air Operations Special Equip or Service

Communications Plan

RF205

3. Radio Channels				
Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	
			154.33125 TX	20
Division Pigeon	Operational	Fire 1	143.82500	
Division Hayton	Operational	Fire 2	143.78750	0,
Division Teapot	Operational	Fire 3	140.92500	
Division Redwood	Operational	Fire 1	143.82500	
Division Moutere	Operational	Fire 2	143.78750	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX	
		01	154.33125 TX	
FireCom		FireCom		
	10)			
4. Telephone Assigned To	Landline	Cell phone	Fax	Comments
Emergency	•	111		
Regional Command Centre (RCC)				
25				
0.0				
6. Other (e.g. email, Sat	tphone, etc)			
GIS Mapping	planning.intellige	nce@nelsontasmar	ncdem.govt.nz	
ICP	Reception.nelson	tasman@fireemerg	ency.nz	
Command Unit	lcu.nelson@fireer	nergency.nz		

Prepared by:	Date:6Feb2019	Time: 0445
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Safety Plan

RF209

3. General Safety Points

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

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

LACES	Fire Orders	Watchouts
L - Lookout(s) A - Awareness - Anchor Point(s) C - Communication(s) E - Escape Route(s) S - Safety Zone(s)	 conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided for safety first. 	 Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or downwind of a fire Working on a steep slope Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working mear machinery Working around trees or spars

4. Specific Safety Points

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

Prepared by:	Date:6Feb2019	Time: 0445
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Medical Plan

RF206

3. First Aid Station Name	Location	Phone/Ro Channel		Param vailable d		010 =
		Channel		valiable (at Stati	on
Each Crew must have available one First aid Level 1 Certified	Each crew					1
Nelson 91 Ambulance	Forward command post	Waimea 1	1 Para	amedica	nd 1 EN	T T
				~		
			80			
4. Transportation Ambulance Service	Address	Phone/Ra Channel		Param able witl		lance
Ambulance St Johns	Richmond station	111	Yes			
	Motueka/Stoke Nelson/					
	0,					
5. Hospitals	Address	Phone	-		Burn	Heli
Hospital Name Nelson Public Emergency	Waimea Rd.	035461800	Road 27m	<i>Air</i> 4min	Unit	Pad
	vvaimea ka.	045666999	n/a	40min	Y	У
Hutt Hospital (Burn Unit)						
6. Special Emergency Procedur Emergency Helicopter statione		11"				l
8. Reviewed by Safety Advisor:		Date/	Time			

1. Pigeon Valley

2. 6Feb2019 0700 to 1900

FIRE WEATHER FORECAST

For Location Pidgeon Valley near Wakefield

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

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

Precipitation:

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

Temperature:

About 16C, rising to 20C midday.

Humidity: 70%, lowering to 50% midday.

Outlook for the next 12 hours:

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

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

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

Outlook for next 6 days:

Thursday: Light winds, sunny, dry and max temperature around 21C. Friday: Light winds, sunny, dry and max temperature around 20C. Saturday: Light winds, sunny, dry and max temperature around 22C.

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

Monday: Northerlies and rain, max temperature around 21C. Tuesday: Light winds, sunny and max temperature around 23C.

Fire Indices for Wednesday 6th Feb 2019

FFMC 86 (easy Ignition)

DMC 96.8 DC 457

816926

ISI 4.7 (moderately fast rate)

BUI 126 (Extreme)

FWI 20.8 (high fire intensity)

Prepared by:	Date:6Feb2019	Time: 0445

1. Pigeon Valley	2. 6Feb2019 0700 to 1900

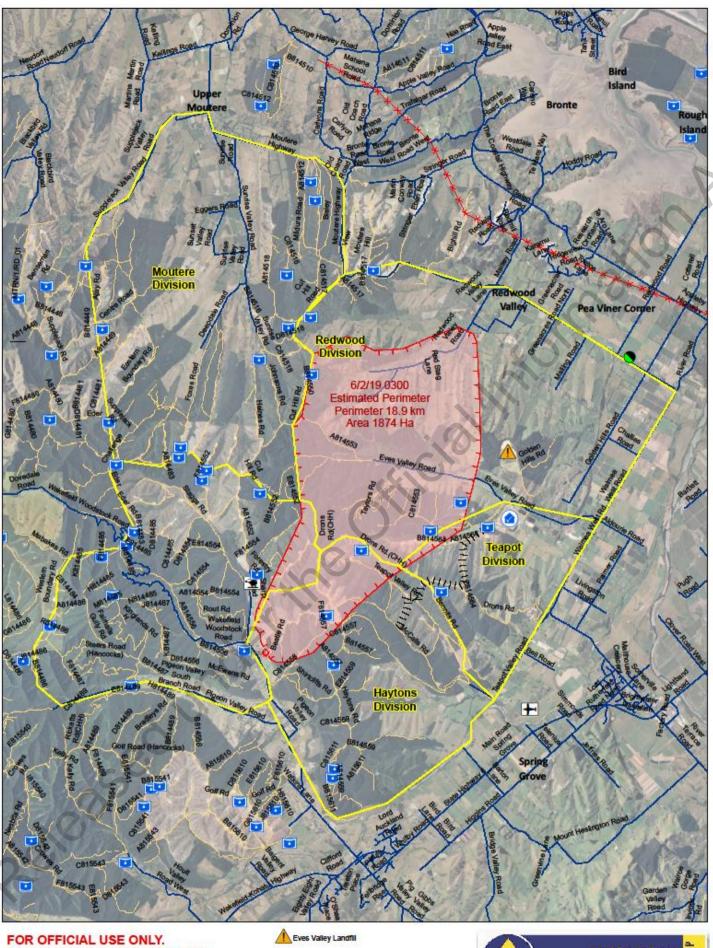
FIRE BEHAVIOUR FORECAST

Prepare	Fire name: Pigeon Road			Prediction for: 0800-1800 06 Feb-19					
Prepared by:			Time and date issued: 0300 Feb 19						
				Day Shift					
		Wind	Cloro*	today's fo		DC	TOT	ртп	Trax?
Temp	RH 71	Wind 13	Slope *	FFMC 86	DMC 97	DC 457	ISI 4.7	BUI 127	FW.
		he equilibriur	-						
		2							
	80								

1. Pigeon Valley	2. 6Feb2019 0700 to 1900

Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations:	Expected fire beh	aviour – slope 0°	Forecast worst case	– 28°C 45% RH slope 20° 14
Expect HF rate of spread of 10-40 m/hr HF Intensity 200-700 kw/m Flame lengths 1-1.5 Flame lengths 3 m Fuel type: Scrub/gorse 2m height Expect HF rate of spread of 500-1000 m/hr HF Intensity <10000 kw/m Flame lengths 7.2 m Flame lengths 13 m Fuel type: Grass-70% GC, 100% cover, 0.1m height Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Flame lengths 2 m Flame lengths 2 m Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.1m height Expect HF rate of spread of 600 m/hr HF Intensity 150-350 kw/m Flame lengths 2 m Flame lengths 2 m Flame lengths 2 m Flame lengths 3 m Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.1m height Expect HF rate of spread of 600 m/hr HF Intensity 150-350 kw/m Flame lengths 2 m Flame lengths 2 m Flame lengths 2 m Flame lengths 3 m Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Expect HF rate of spread of 600 m/hr HF Intensity 1050 kW/m Flame lengths 2 m Flame lengths 2 m Flame lengths 3 m Fuel type: Scrub/gorse 2m height Expect HF rate of spread of 3000 m/hr HF Intensity 10000 kw/m Flame lengths 5 m Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Expect HF rate of spread of 3000 m/hr HF Intensity 10000 kw/m Flame lengths 5 m Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Expect HF rate of spread of 3000 m/hr HF Intensity 10000 kw/m Flame lengths 1 m Fuel type: Scrub/gorse 2m height Expect HF rate of spread of 3000 m/hr HF Intensity 10000 kw/m Flame lengths 1 m Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height Fuel type: Ungrazed Grass -70% GC, 100%			1800	
HF Intensity 200-700 kw/m Flame lengths 1-1.5 Flame lengths 3 m Fuel type: Scrub/gorse 2m height Expect HF rate of spread of 500-1000 m/hr HF Intensity <10000 kw/m Flame lengths 7.2 m Flame lengths 13 m Fuel type: Grass-70% GC, 100% cover, 0.1m height Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Fuel type: Mature Pir	ne – 5m pruned	Fuel type: Mature P	Pine – 5m pruned
Flame lengths 1-1.5 Flame lengths 3 m Fuel type: Scrub/gorse 2m height Expect HF rate of spread of 500-1000 m/hr HF Intensity <10000 kw/m Flame lengths 7.2 m Fuel type: Grass-70%GC, 100%cover, 0.1mheight Expect HF rate of spread of 3000 m/hr HF Intensity >10000 kw/m Flame lengths 13 m Fuel type: Grass-70%GC, 100%cover, 0.1mheight Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Expect HF rate of spre	ead of 10-40 m/hr	Expect HF rate of sp	oread of 200 m/hr
Fuel type: Scrub/gorse 2m height Expect HF rate of spread of 500-1000 m/hr HF Intensity <10000 kw/m Flame lengths 7.2 m Flame lengths 7.2 m Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.1m height Expect HF rate of spread of 600 m/hr Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.1m height Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head Fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	HF Intensity	200-700 kw/m	HF Intensity	2100 kw/m
Expect HF rate of spread of 500-1000 m/hr HF Intensity <10000 kw/m Flame lengths 7.2 m Flame lengths 7.2 m Flame lengths 13 m Fuel type: Grass-70%GC, 100%cover, 0.1mheight Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Flame lengths	1-1.5	Flame lengths	3 m
HF Intensity < 10000 kw/m Flame lengths 7.2 m Flame lengths 13 m Fuel type: Grass-70% GC, 100% cover, 0.1m height Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head of the fire intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Fuel type: Scrub/gorse 2m height		Fuel type: Scrub/ go	orse 2m height
Flame lengths 7.2 m Flame lengths 13 m Fuel type: Grass-70% GC, 100% cover, 0.1m height 0.2m height Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m HF Intensity 1050 kW/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head Fire intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Expect HF rate of spre	ead of 500-1000 m/hr	Expect HF rate of sp	oread of 3000 m/hr
Fuel type: Grass-70% GC, 100% cover, 0.1m height Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Fame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head Fire intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	HF Intensity	<10000 kw/m	HF Intensity	>10000 kw/m
Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head Fire intensity exceed threshold for direct attack in gorse. Flank fires intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Flame lengths	7.2 m	Flame lengths	13 m
Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/scrub fuels. Flame lengths 1.2 m Head Fire intensity exceed threshold for direct attack in gorse/scrub fuels. Flame lengths 2 m Head Fire intensity exceed threshold for direct attack in gorse. Flank fires in gorse and mature pine fuels, and flame for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Fuel type: Grass-70%	GC, 100% cover, 0.1m height	Fuel type: Ungrazed	d Grass -70% GC, 100% co
HF Intensity 150-350 kw/m Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head Fire intensity exceed threshold for direct attack in gorse/ attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the				>
Flame lengths 1.2 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ attack in gorse and mature pine fuels, and flow fires in gorse. Flank fires intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Expect HF rate of spre	ead of 100-200 m/hr	Expect HF rate of sp	oread of 600 m/hr
Safety Considerations: Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ attack in gorse and mature pine fuels, and flows fires in gorse. Flank fires intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	HF Intensity	150-350 kw/m	HF Intensity	1050 kW/m
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head Fire intensity exceed threshold for direct attack in gorse/ attack in gorse and mature pine fuels, and fl fires in gorse. Flank fires intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	Flame lengths	1.2 m	Flame lengths	2 m
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels. Head Fire intensity exceed threshold for direct attack in gorse/ attack in gorse and mature pine fuels, and fl fires in gorse. Flank fires intensity is now to high for ground crews Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the				
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. Northerly change in the morning will move the head of the fire to the south/ eastern flank as wind strengthens during the day. The nature of the fuels means that fire behaviour has the	scrub fuels.		fires in gorse. Flank	fires intensity is now too
wind strengthens during the day. The nature of the fuels means that fire behaviour has the		70,	high for ground crev	vs
	. Northerly change in	the morning will move the	head of the fire to the	south/ eastern flank as t
potential for extreme fire behaviour especially with wind, temperature and fuel changes.	wind strengthens during	ng the day. The nature of the	he fuels means that fir	re behaviour has the
		<mark>fire behaviour especially w</mark>	ith wind, temperature	and fuel changes.
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Prepared by:	Date:6Feb2019	Time: 0445
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NOT FOR PUBLIC DISTRIBUTION.

Date saved: 6/02/2019, 0417 hrs

Scale at A3 1:52,511 0 0.25 0.5 Eves Valley Sawmill







Pigeon Valley Fire Extent
Pigeon Valley Fire Extent





NOT FOR PUBLIC DISTRIBUTION.

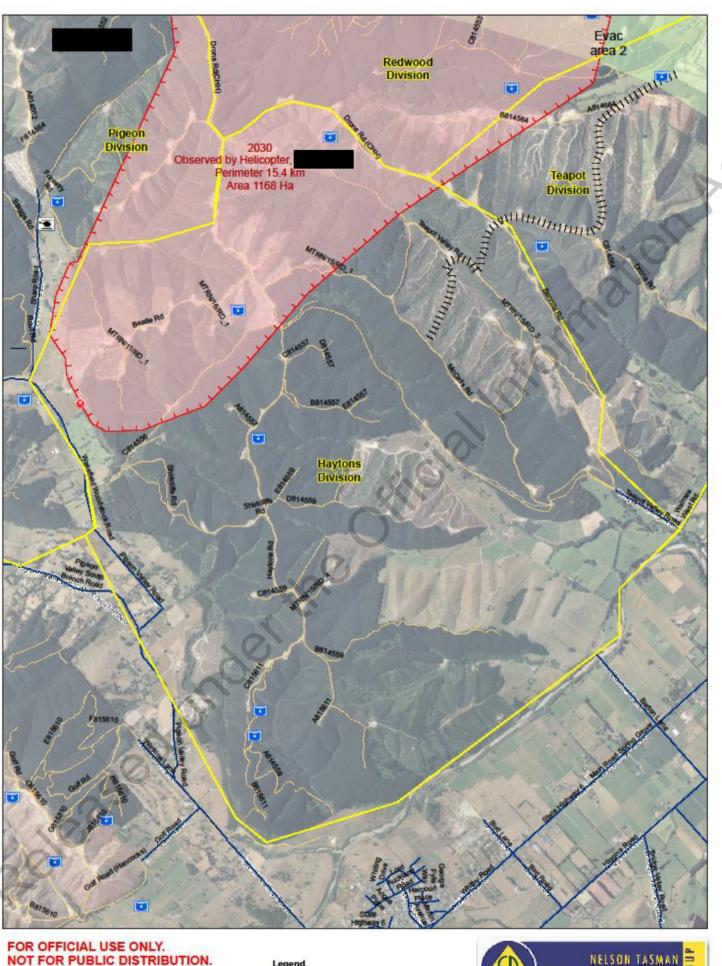
Date saved: 6/02/2019, 0400 hrs Prepared by: kilmenys

0.25 Scale at A3 1:25,000

Waterpoints Fire Origin

Pigeon Valley Fire Extent Estimated based on Police report at Malsey Road
Observed by Helicopter,





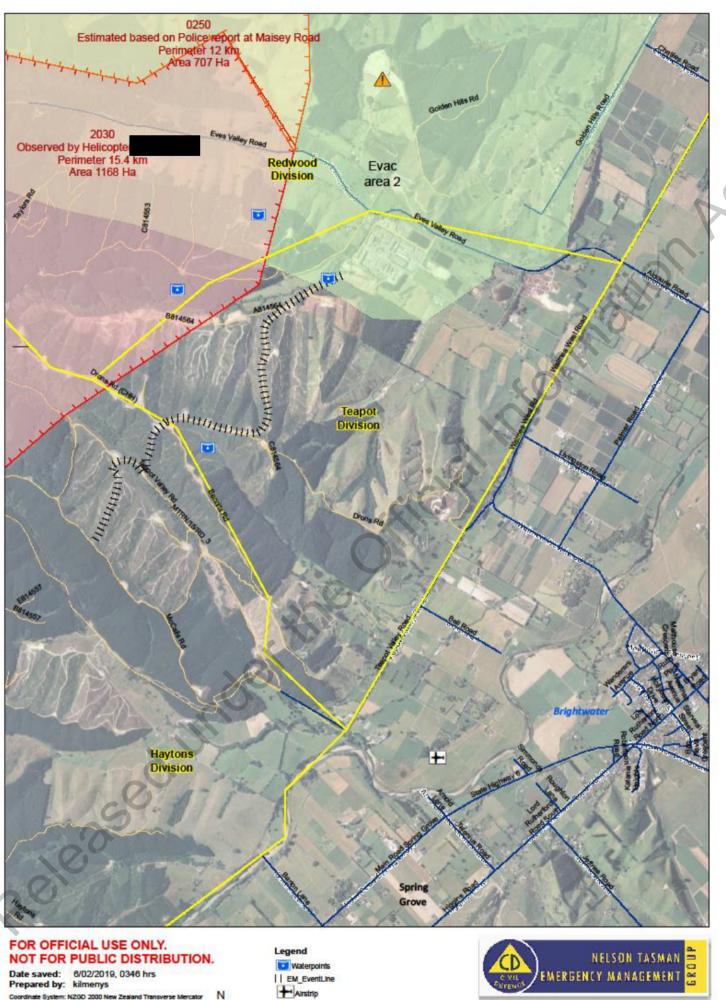
NOT FOR PUBLIC DISTRIBUTION.

Date saved: 6/02/2019, 0346 hrs Prepared by: kilmenys

Scale at A3 1:20,000

Legend Waterpoints | EM_EventLine Fire Origin Pigeon Valley Fire Extent
Cobserved by Helicopter,



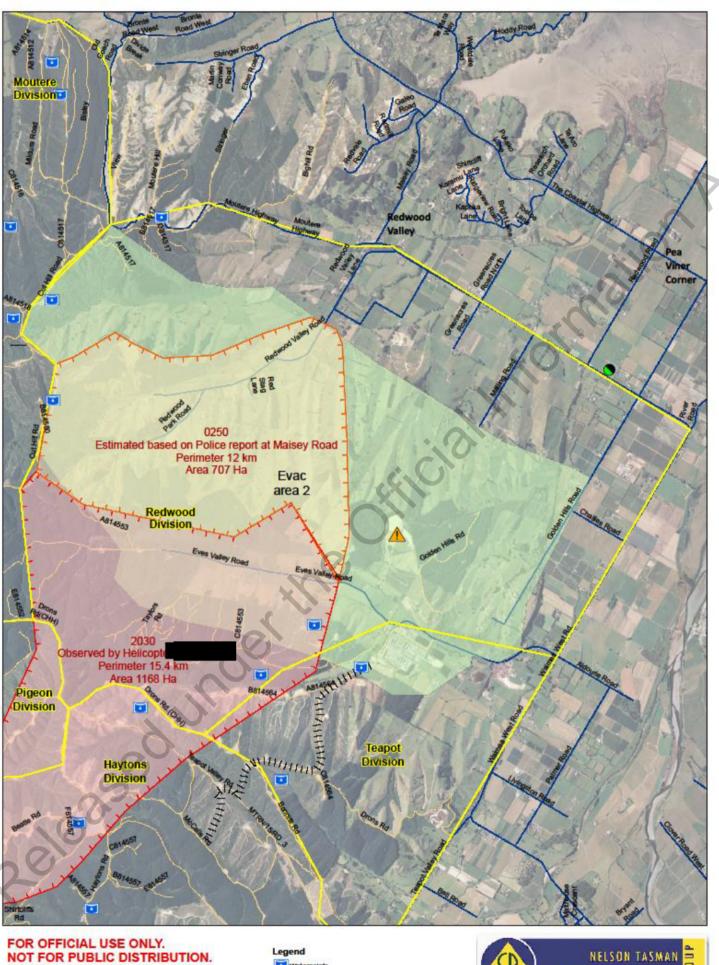




Scale at A3 1:20,000







Date saved: 6/02/2019, 0346 hrs

Prepared by: kilmenys

Scale at A3 1:30,000

0.25 0.5

Waterpoints

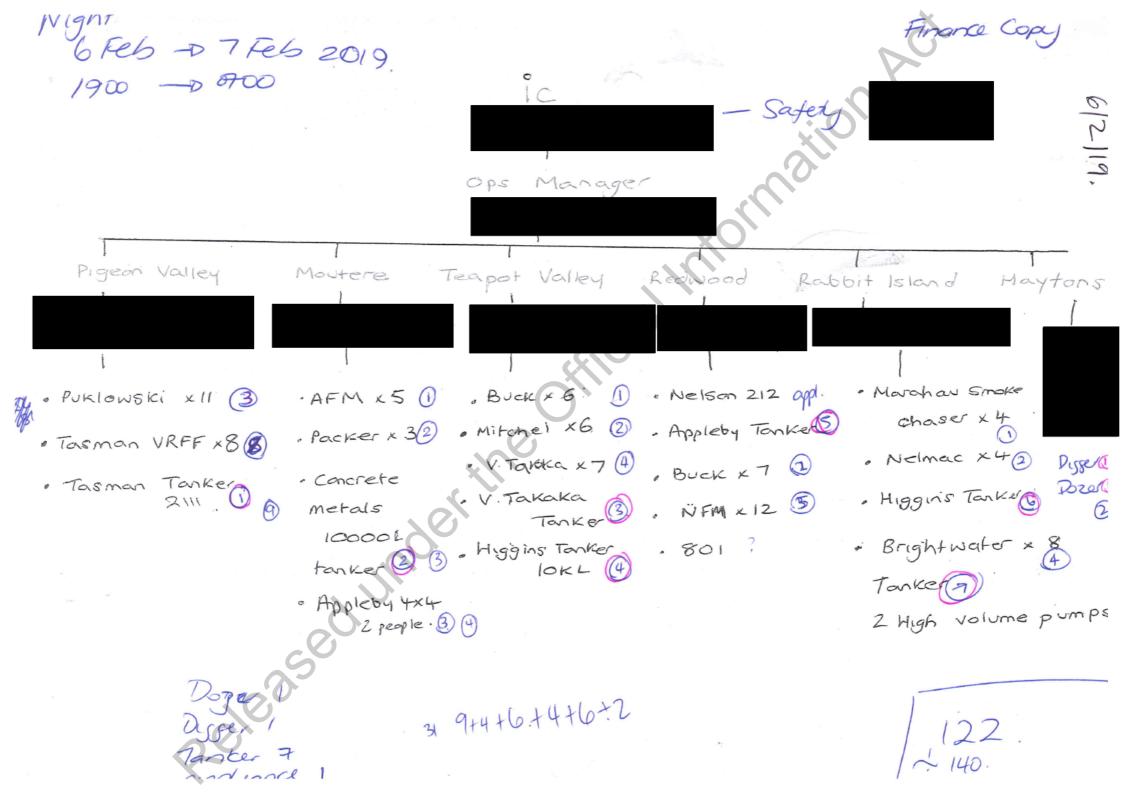
| EM_EventLine

Eves Valley Landfill

Pigeon Valley Fire I

Estimated based on Police
Observed by Helicopter,





7/2/19

IAP Cover Sheet

INCIDENT ACTION PLAN
The items checked below are included in the incident Action Plan SITUATION REPORT INCIDENT OBJECTIVES ORGANISATIONAL LIST SECTOR ASSIGNMENT DIVISIONAL ASSIGNMENT AIR OPERATIONS PLAN COMMUNICATION PLAN SAFETY PLAN MEDICAL PLAN FIRE MAP WEATHER FORECAST AND MAP FIRE BEHAVIOUR FORECAST FACILITIES LAYOUT PLAN
Approved by Incident Controller: Signed Date/Time
1810



Situation Report

RF201

1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 6 th Feb 2019	REPORT
	Time 1330	RF20
3. Location	4. Vegetation	5. NZ TM Grid Ref.
Pigeon Rd, Eves Valley	Forest/Scrub/Grass/Slash/	41°22'32.51"S
,Tasman		173° 1'31.81"E

6. Assessment

A large scrub/ forest fire is currently burning estimated to be 1870ha at 12:30 hrs with a perimeter of 22km.

Values at risk are life and property, assets.

Confirmed minor property damaged. Unconfirmed reports of potential property losses in Eves Valley and Redwood Valley.

The Eves Valley sawmill is at risk and fire crews are carrying out structural protection on structures. Telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind.

Evacuations have occurred in the

- Eves Valley,
- Golden Hills Rd,
- Redwood Valley Rd
- Mallings Rd
- Greenacres Rd

We have confirmed records of 170 households evacuated.

Evacuation of North and South Pigeon Valley, Teapot Valley, Eves Valley, Redwood Park, Malling Rd and Golden Hills Rd.

Notice of potential evacuations in place for Sunrise Valley (top end), Deepdale Rd (Upper Moutere).

Crews are working on most areas on the ground safely and are progressing fire containment due to more favourable weather conditions.

Prepared by	Date:7Feb2019	Time: 1500

1. Pigeon Valley

2. 7Feb2019 0700 to 1900

7. Action taken

14 Helicopters managed fire as requested throughout the day

Firebreaks being located to manage NNE wind change.

More predictable fire behaviour has made the fire ground more accessible for ground crews in particularly on the Northern front. These crews are being tasked with structure protection and controlling the fire when it has spotted onto grassland. Black out work has commenced in this area.

8. Factors

On Tuesday strong winds fanned the forest fire and the fire itself was creating its own extreme fire behaviour. Fire behaviour at night was still very active with highly flammable grass and scrubland carrying the fire. Wednesday day bought a change in wind direction pushing the fire back into the burnt stand areas and changing fire fronts along with more benign fire behaviour from lower temperatures and higher RH.

Light winds and higher relative humidity's have prevailed through the day enabling crews to move into direct attack.

9. Predicted Incident Development

The prevailing weather is supporting fire fighter activities with an increased in containment of existing fire lines. This will continue based on the forecast until unfavourable weather conditions occur. Significant reduction in the rate of spread due to current weather.

10. Prepared by:	Date/Time 16:30 6 th Feb 2019
Authorised b (Incident controller)	

Prepared by Date:7Feb2019 Time: 1500

Incident Objectives RF202

3. Overall Incident Objectives

Protect life (Public and Residents, firefighters)

Protect Property

Identify and keep stakeholders informed

Ensure Firefighter Safety

Identify and protect Critical Infrastructure

Transition to NIMT using shadow process by 1500hrs

Protect Other Assets (Forests, crop etc)

Prepare for significant wind/weather change

Containment lines constructed

- Haytons division; Wakefield cell tower retardant line, Firebreak at the base of the hill in the grass paddock
- Teapot Valley; back up the firebreak around the Eve's Valley Sawmill with retardant
- Redwood Valley; Progress firebreaks during northly winds
- Moutere; Assessing situation and developing a containment plan. Looking to develop a additional firebreak along Eder road and the southern end of Cuthill?

Contain then Extinguish fire

4. Objectives for specified Operational Period

Protect life (Public and Residents)

Identify and keep stakeholders informed

Allow for Firefighter Safety

Sectorise each divisional area

Identify and protect Critical Infrastructure

Transition to NIMT by 1500hrs

Establish High volume Water Supplies

Protect property and critical infrastructure be establishing hard containment lines with heavy equipment or Identify opportunities for laying down retardant ahead of wind change to protect property/infrastructure

Establish trigger points with 3hrs lead-time for evacuations

Prepared by	Date:7Feb2019	Time: 1500
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Organisation List

3. Incident Control	,	Cell Phone	Radio Ch
Incident Controller	(NIMT)		
Ops Strategy advisor	(MMIT)		
Information Officer			
Safety Officer	(NMIT)		0
Liaison Officer			
4. Agency Representative		Cell Phone	Radio Ch
Lead Agency	FENZ PRFO		
Agency	Police		
Agency	CDEM		
	CDEM Duty Phone		
Agency	FENZ Urban Liason		
5. Planning/Intell Section		Cell Phone	Radio Ch
Planning/Intell Manager			
Situations Unit	(FBAN) (Day)		
9 nuge	(Day) (GIS) (GIS) (Observer) (Observer) +2		
Resources Unit	(EoC)		
3	(Caravan Cneck in)		
Management Support Unit			
Information Unit	3		
Advance Planning Unit			
Technical Specialists Unit			

1. Pigeon Valley

2. 7Feb2019 0700 to 1900

-			
6. Logistics Section		Cell Phone	Radio Ch
Logistics Manager	(NMIT)		
	(Day) (Night)		
Supply Unit			
Catering Unit			
Facilities Unit			XIC
Finance Unit			70
Communications Unit			
Welfare Unit	-	•	
Medical Unit			
Ground Support Unit	8		

7. Operations Section	Cell Phone	Radio Ch
Operations Manager		Waimea 1
Deputy Operations Manager		Waimea 1
Ops Planning		Waimea 1
Division Pigeon Commander		Fire 1
Division Hayton Commander		Fire 2
Division Teapot Commander		Fire 3
Division Redwood Commander		Fire 1
Division Moutere Commander		Fire 2
Division Two Commander		
Sector E Supervisor		
Sector F Supervisor		
Sector G Supervisor		
Sector H Supervisor		
Air Division Commander	(NMIT)	
Air Attack Supervisor		Fire 4
Air Support Supervisor	J 19 2812	Fire 4

Prepared by:		Date:7Feb2019	Time: 1500	

1. Pigeon Valley	2. 7Feb2019 0700	to 1900
Public information section	(NMIT)	
	(NMIT)	
(NI	MIT)	
	(NMIT)	
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Prepared by	Date:7Feb2019	Time: 1500

Prepared by	Date:7Feb2019	Time: 1500
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 Pigeon Valley 	1.	Pigeon	Valley
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2. 7Feb2019 0700 to 1900

Sector Assignment

3. Sector	or 4. Description				5. Division Assigned		
6. Sector Supervisor	Affiliation		Cellp	hone .	Radio Ch		
7. Resources Assigned	this period		<u> </u>			11O)	
Resource/Crew	Leader	# Pe	rsons	Transport Required	Drop- off Point/ time	Pickup Point/time	
				4	0)		
	,						
×							
8. Sector Assignment /	Special Instruction	ns					
·	2 CONTROLLER)					
9. Sector Communicati					Phone	Radio Ch	
Division/Division Cmd		1-1141					
Air Attack Supervisor	·		_				
Safety Officer		······································					

Prepared by Date:7Feb2019 Time: 1500	
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3. Pigeon - Alpha			4.Point of ig	nition to	o Dove Saddle		
6. Sector Commander	Affiliation			Cellph	Cellphone		io Ch
	Tasm	an VF	RFF			Fire	1
6. Resources Assigned th	his Peri	od		i .	755 a. 210 MARY 2 dat 27 a. 5 a.		1:40
Sector			Supervisor		Crews		Radio Ch
1 Taylors D8 jd850		1x H	EQB				20
1 Taylors Excavator		1xHE	QB				
Tasman VRFF 6px					8		
1 Smoke chaser + 2px H	ira					Landa Co	
1 Appliance + 5px Hira						THE PERSON NAMED IN	
1 rural tanker 5075				*			
7. Division Assignment/ Protect Life and Propert Keep Residents and Stal change Dozer to establish hard Excavator to Establish h Hoult Valley Rd secon Provide Situation Repor *Laydown Retardant to	keholde contair igh vole nd t to Sit	ers in nmen ume uatio	formed in pro at lines for pro water supplie ons Unit at lea	pperty/in	nfrastructure p i river Baigent	rote	ction
8. Division Communicat					Phone		Radio Ch
Operations Manage							
Air Division Commande	<u>r</u>						

·····			T ' 4500
Prepared by		Date:7Feb2019	Time: 1500
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3. Haytons – Zulu		4. Point of i	gnition to	o Teapot Valle	y Rd end	
6. Sector Commander	Affiliation		Cellpho	one	Radio Ch	
	DoC Motu	eka			Fire 2	-
6. Resources Assigned th	nis Period				, , , , , , , , , , , , , , , , , , ,	3
Sector		Supervisor	•	Crews	Radio C	h
TLC Bulldozer D7					20	
+ additional dozer						
TLC x2 Excavator				. (
Appleby VRFF 4px				X	9	
Nelson Lakes VRFF 4px						
1x smoke chaser				Lake Rotoiti		
1x appliance			+_(Lake Rotoiti		
2x rural tanker			*. C)		-	
7. Division Assignment/ Protect life and Property Keep Residents and Stake change 1x Excavator establish H 1x Bulldozer for Properte along Haytons Rd Ground crew begin 5m k Provide Situation Reporte along Resident to 100C Lakes Crew	deholders in seholders in sigh Volume y/Infrastruction plackout of t to Situation protect pro	oformed in proceed water Point cture Protect flank ons Unit at le	s Wai-iti ion and E	River end of B stablish hard o	ird Lane	
8. Division Communicati				Phone	Radio Ch	
Operations Manager						
Air Division Commander	<u> </u>		*****			

Prepared by:	Date:7Feb2019	Time: 1500
Prepared by:	Date:7Feb2019	Time: 1500

3. Teapot - Yankie		4.Eves Valle	ey Rd to (Golden Hills Ro	d
6. Sector Commander	Affiliation	I VFB/NML	Cellpho	one	Radio Ch
C. Dansauran Ansima al Al					11103
6. Resources Assigned to Sector	nis Perioa	Supervisor		Crews	Radio Ch
1 Taylors Bulldozer D8					
2x Taylors Excavator					
Wakefield 02 VFB 4px			:		
Upper Moutere 321, 32	11			<u> </u>	O
Ngatimoti VRFF					
4x Urban crew				Upper Moute	ere
2x rural tankers					
2x Tankers 10000L Concrete& Metals		(Dow	ner		No PPE No PPE
7. Division Assignment	-	tructions			
Protect life and Propert Keep Residents and Sta	-	nformed in n	onaratio	n for notentia	I north eactarly wind
change	kenoluersi	momieu m pi	eparatio	ii ioi poteiitia	i north easterly wind
Establish High Volume V	Water supp	ly end of Bell	s rd Wai i	ti River with E	xcavator
1x Bulldozer for Propert Eastern Flank/Eder R	A	icture Protect	ion first,	Establish hard	l containment line on
Urban crew for Protecti		•	-	•	quired
Provide Situation Repor			ast every	two hours	
*Laydown Retardant to	protect pr	operties			
8. Division Communicat	ions			Phone	Radio Ch
Operations Manage	er				
Air Division Commande	r				

Time: 1500

Date:7Feb2019

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Prepared by

3. Redwood - Xray	4. Golden H	ills Rd to Cut	Hill Rd	
6. Sector Commander	Affiliation FENZ	Cellphone		Radio Ch Fire 1
6. Resources Assigned this Period			,	
Sector	Supervisor	П	Crews	Radio Ch
1 Dozer Burson D65 Komatsu?		·		
1 TLC Excavator			~(
AFM 2px				
Wainui VRFF 2px				MR.000.00.00.00.00.00.00.00.00.00.00.00.0
- Smoke Chaser				
3 Military Crews	S.			
7. Division Assignment/Special in Protect Life and Property Keep Residents and Stakeholders change Excavator to identify and establis 1x Bulldozer for Property/Infrastr Contain fire South of Moutere His Urban crew for protection of Eve Provide Situation Report to Situa Build containment lines where provide Staydown Retardant to protect process.	informed in process for hig ructure Protecti ghway and Wes s Valley Hazard tions Unit at lea ractical in light f	h volume wa on assisted b it Golden Hills ous Landfill ast every two uel areas. rovide contai	ter supply y ground o s Rd hours inment	in existing ponds
8. Division Communications		Pho 	ne	Radio Ch
Operations Manager Air Division Commander				

Prepared by: Date:7Feb2019 Time: 1500

3. Moutere – Bravo		4. Cut Hill	Rd to Dove	Hill Saddl	е	
6. Sector Commander	Affiliation		Cellpho	ne	Ra	dio Ch
	Bruce Fore	estry			Fir	e 2
o. kesources Assi gned th	nis Period					X
Sector		Superviso)r	Crev	/5	Radio Ch
Taylors Hitachi 20T Excavator (on site)	}			Taylors		TPFL Ops 2
1 TLC Excavator ?						
1 Taylors Dozer		· · · · · · · · · · · · · · · · · · ·				
1x 3px crew VRFF -						
Brightwater	THE STATE OF THE S					•
2x 4px mid Canterbury?				0.		
			.c.O			
West Coast 4px?						
Brightwater 5071 Appliance 5px)			
7. Division Assignment/ Protect Life and Propert Keep Residents and Stake change Excavator to Identify an 1x Bulldozer for Propert Taylors Excavator to est Sunrise/Heines rd Develop Containment linglan for additional co	y keholders in d Establish y/Infrastruc ablish escap nes from Cu entainment t to Situatio	nformed in phigh volume eture Protect oe route/act at Hill to Ede lines throug ons Unit at l	e water acc ction, sunri cess down er Road wh gh Dovedal	ess to exis se valley, e Supplejach ere safe to e saddle.	sting po establis Valley o do so.	nds h escape routes rd and
8. Division Communicati		***************************************		Phone		Radio Ch
Operations Manage						
Die Diesialan Carana auchter			ı			

Air Operations Plan

		RF208				
3. Personnel and Commun Position		ame	Affiliation	Phone	Radio Cha	า
Air Div Commander		_				
Air Attack Supervisor						>
Air Support Supervisor						
Lead Helicopter Pilot					10	
Lead Fixed-Wing Pilot						
4. Air Resource Assignme	nts			7,6		
Company	Type of Heli	Call Sign	Capacity	Pilot Name	Contact Details	
	1			Pilot walle	Details	
Garden City Helicopters	B4 Squirrel	IWN	1000L	-		
Marlborough Helicopters	Long Ra\nge	IMS IWS	600L			
Independent Helicopters	Squirrel		1000L			
Amuri Helicopter	Squirrel	HJM	1000L			
Anderson Helicopters	B2 Squirrel	HKA	1000L			
Christchurch Helicopters	B2 Squirrel	HND	1000L			
Christchurch Helicopters	B2 Squirrel	HFF	1000L			
Mount Hutt Helicopters	Squirrel	HDQ	1000L			
Heli Ventures	Squirrel	IER	1000L			
Beck Helicopters	BellUH1B		1500L			
Beck Helicopters	BellUH1F	V	1500L			
Fixed Wing	1					
1 TBC 1200hrs	Cresco	OAS				
2 TBC 1200hrs	Airtractor	SKF				
3 TBC 1200hrs	V					
5. Location of Filling Point	ts/Service Ar	eas				
Name			Grid	Reference		
Sharp Rd (Divison Pigeon)	41 22 03.7 S 17	3 00 55.6 E	Flight Summ	narjes	
					. 0	_
Fixed Wings:		41 22 39.9 S 17	3 05 04.6 F	Southern Heli	1199 HUE	
airstrip via Teapot Valley		11 22 3313 3 27		Garden City	141	
6. Safety Notes / Hazards		erage Limitation	s	Govalen Cita	TIL	
Di Barcey Notes / Hazaras	, madio cov	Champlov's C	H77	Garden City Garden City	IGF	
		Skyworks	1122	Itelicharter Nel	enn ill	
				Reid Helicopter	C HOE	
7. Air Operations Special	Equip or Serv	vice		KEYN HOUMPTON	HEV	
					1100	
				Mardleman 1	II HIT	
				Marlborough He	11/11/1	
				V		

Prepared by	Date:7Feb2019	Time: 1500
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Communications Plan

RF205

3. Radio Channels				
Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	
			154.33125 TX	
Division Pigeon (Alpha)	Operational	Fire 1	143.82500	. 0
Division Hayton (Zulu)	Operational	Fire 2	143.78750	
Division Teapot (Yankie)	Operational	Fire 3	140.92500	70
Division Redwood (Xray)	Operational	Fire 1	143.82500	
Division Moutere (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	
,		· C	154.33125 TX	
FireCom		FireCom		÷
п				
4. Telephone	100			
Assigned To	Landline	Cell phone	Fax	Comments
Emergency	_ <	111		
Regional Command Centre (RCC)	3			
70,				
6. Other (e.g. email, Satpho	ne, etc)			
GIS Mapping	planning.intellige	nce@nelsontasr	mancdem.govt.nz	
ICP	Reception.nelson	tasman@fireem	ergency.nz	
Command Unit	lcu.nelson@fireer	mergency.nz		

Prepared by:	Date:7Feb2019	Time: 1500	
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Safety Plan

RF209

3. General Safety Points

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

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

L - Lookout(s) A - Awareness - Anchor Point(s) C - Communication(s) E - Escape Route(s) S - Safety Zone(s) 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. 1. Fire size is unknown (no size up). 2. Unfamiliar vitrivory 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 downwind of a fire 11. Working on a steep slove 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 requent spot fires across the line 10. Working uphill or downwind of a fire 11. Working on a steep slove influencing fire behaviour. 12. Working on a steep slove influencing fire behaviour. 13. Can't see main fire 14. In unburnt vegetation 15. Walking through hot ashes 16. Working near machinery 16. Stay alert. Keep calm, Think clearly, and decisively humidity dropping 18. Working on a steep slove influencing fire behaviour. 19. Working uphill or downwind of a fire influencing fire behaviour. 19. Working uphill or downwind of a fire influencing fire behaviour. 19. Working uphill or down	LACES	Fire Orders	Watchouts
	A – Awareness – Anchor Point(s) C – Communication(s) E – Escape Route(s)	 Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided 	 Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or downwind of a fire Working on a steep slope Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working mear machinery Working with aircraft

4. Specific Safety Points

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

Prepared by Date:7Feb2019 Time: 1500	
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Medical Plan

RE206

3. First Aid Station		Pho	ne/Radio	<u> </u>	Parame	edics	:
Name	Location		annel	available at Station			
Each Crew must have available one First aid Level 1 Certified	Each crew						
Nelson 91 Ambulance	Forward command post	Wain	nea 1	1 Para	medic an	id 1 EM	Т
			<u> </u>	O'	0,0		
4. Transportation Ambulance Service	Address		one/Radio annel		Parame able with		lance
Ambulance St Johns	Richmond station	111		Yes			
	Motueka/Stoke Nelson/			,			
	0),						
	(2)						
5. Hospitals Hospital Name	Address	Ph	one	<u>Trave</u> Road	l Time Air	Burn Unit	Heli Pad
Nelson Public Emergency	Waimea Rd.	03546	1800	27m	4min	у	У
Hutt Hospital (Burn Unit)		04566	6999	n/a	40min	Υ	У
6. Special Emergency Procedur Emergency Helicopter statione		11"					
8. Reviewed by Safety Advisor	.		Date/Tin	ne			

repared by	Date:7Feb2019	Time: 1500
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1. Pigeon Valley

2. 7Feb2019 0700 to 1900

FIRE WEATHER FORECAST

Attention Tasman Fire CD

FIRE WEATHER FORECAST

For Location Pigeon Valley near Wakefield

Issued by MetService at 08:55am 06-Feb-2019, and valid for the following 9 hours

Wind: East to northeast 15-20km/h gusting 25-30km/h rising to east to southeast 25km/h gusting 40km/h this afternoon.

Precipitation: Remaining drizzle clearing this morning - Less than 1mm.

Temperature: Rising to 20-21C this afternoon.

Humidity: 65% lowering to 40-50% this afternoon.

Outlook for the next 12 hours:

Mailny fine, some cloud about. Temperatures lowering to 10-12C. Humidity increasing to 70-80%. Southeast easing to 10-15km/h.

Outlook for next 6 days:

FWI 14.5 (high fire intensity)

Thursday: Light winds, sunny, dry and max temperature around 21C. Friday: Light winds, sunny, dry and max temperature around 20C. Saturday: Light winds, sunny, dry and max temperature around 22C.

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

Monday: Northerlies and rain, max temperature around 21C. Tuesday: Light winds, sunny and max temperature around 23C.

Fire Indices for Wednesday 6th Feb 2019 (8:00am) FFMC 83 (easy Ignition) DMC 95.8 DC 451.1 ISI 2.9 (moderately fast rate) BUI 125.1 (Extreme) 1. Pigeon Valley

2. 7Feb2019 0700 to 1900

Prepared by 1918?

FIRE BEHAVIOUR FORECAST

Fire name: Pigeon Road			Prediction for: 0800-1800 07 Feb-19						
Prepared	by			Time and date issued: 1500 06 Feb 19					
Forecast	no. I				Day Sl	nift	4 TE CO. C.		
Assump	tions;			today's fe	orecast				
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
17.1	59.4	10.7	0	86	98.3	463.3	4.2	128.1	19.1

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

Fire Behaviour General:

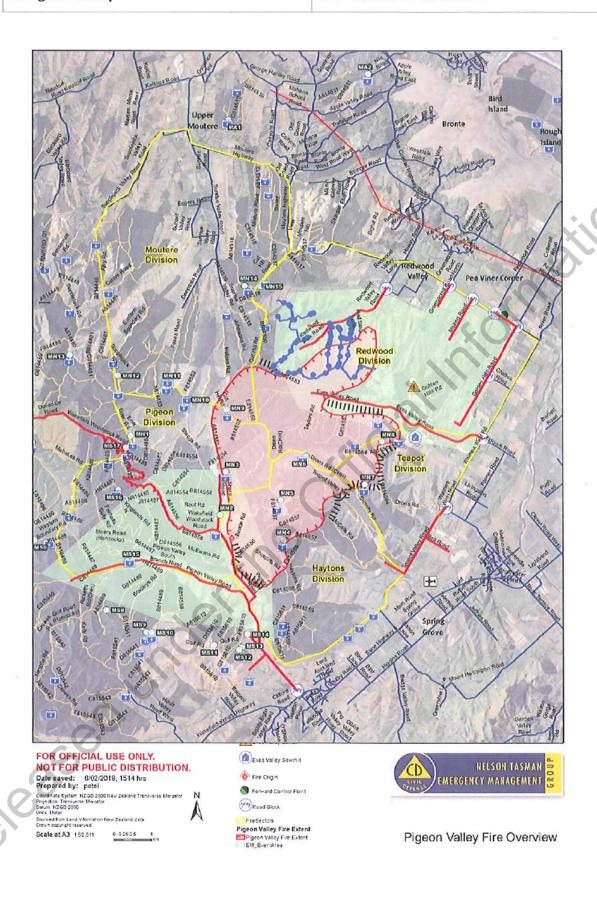
Expected fire behaviour – slope 0°	Forecast worst case – 28°C 45%RH slope 20° 1400-
	1800
Fuel type: Mature Pine – 5m pruned	Fuel type: Mature Pine – 5m pruned
Expect HF rate of spread of 40 m/hr	Expect HF rate of spread of 200 m/hr
HF Intensity 633 kw/m	HF Intensity 2100 kw/m
Flame lengths 1.5	Flame lengths 3 m
Fuel type: Scrub/gorse 2m height	Fuel type: Scrub/ gorse 2m height
Expect HF rate of spread of 926 m/hr	Expect HF rate of spread of 3000 m/hr
HF Intensity >10000 kw/m	HF Intensity >10000 kw/m
Flame lengths 6.7 m	Flame lengths 13 m
Fuel type: Grass-70% GC, 100% cover, 0.1m heig	ht Fuel type: Ungrazed Grass -70% GC, 100% cover,
	0.2m height
Expect HF rate of spread of 187 m/hr	Expect HF rate of spread of 600 m/hr
HF Intensity 296 kw/m	HF Intensity 1050 kW/m
Flame lengths 1.1 m	Flame lengths 2 m
Safety Considerations:	
Head Fire intensity, and flank fire intensity	Head Fire intensity exceed threshold for direct
exceed threshold for direct attack in gorse/	attack in gorse and mature pine fuels, and flank
scrub fuels.	fires in gorse. Flank fires intensity is now too
7	high for ground crews
. Weather conditions for Thursday are predeic	eted to be similar to Wednesday. The NE conditions

. Weather conditions for Thursday are predeicted to be similar to Wednesday. The NE conditions should continue to provide higher relative hunidities and enable a focus on containment activity. Watch for a fall in RH as the afternoon develops and be prepared to adjust your attack strategy.

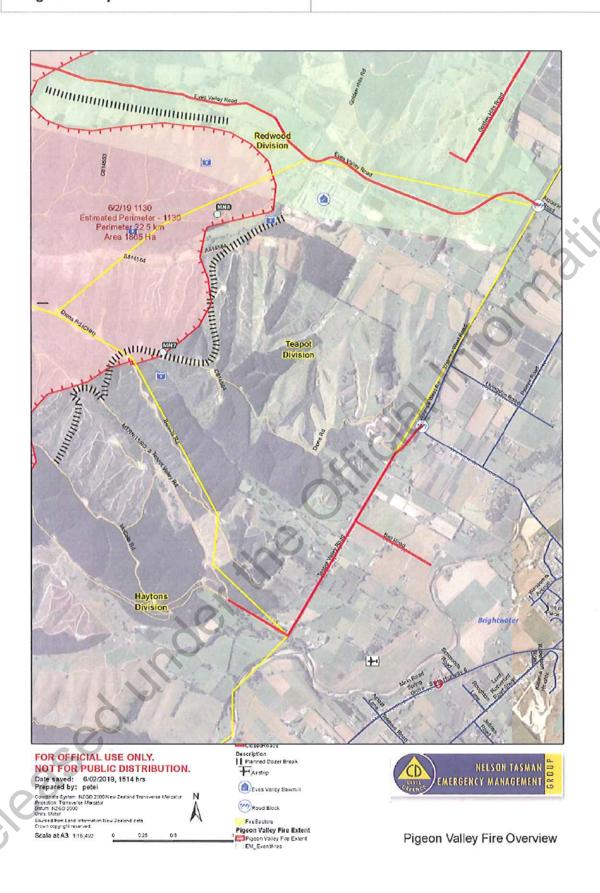
ared by	Date:7Feb2019	Time: 1500
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Released under the Official Information Act

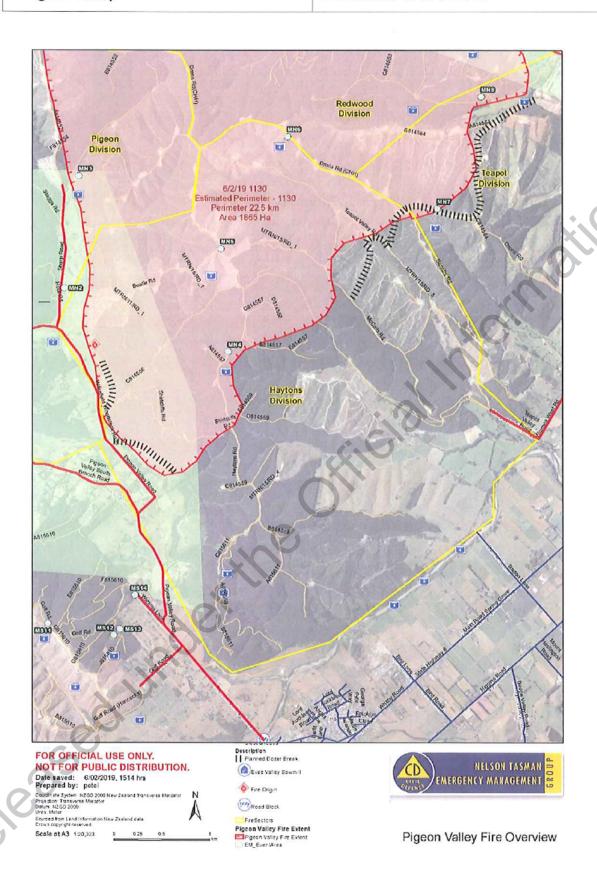
Prepared by Date:7Feb2019 Time: 1500	
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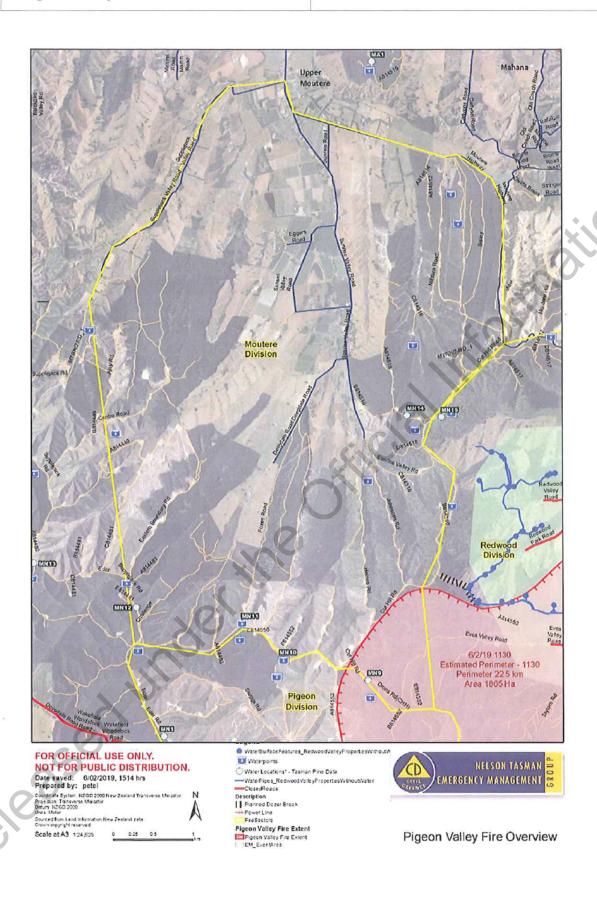
Prepared by	Date:7Feb2019	Time: 1500	



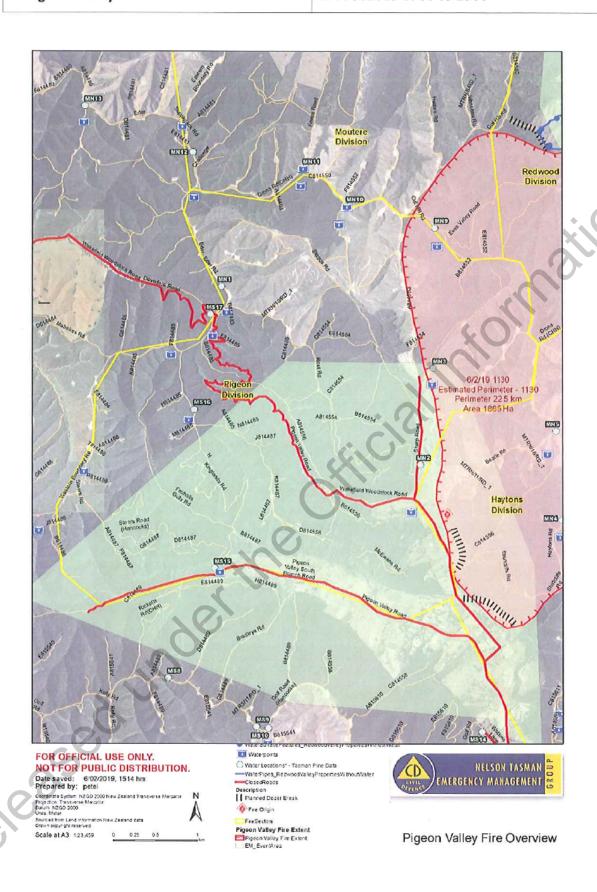
B 11	D . HH 10040	Time: 1500	
Prepared by:	Date:7Feb2019	Time. 1500	



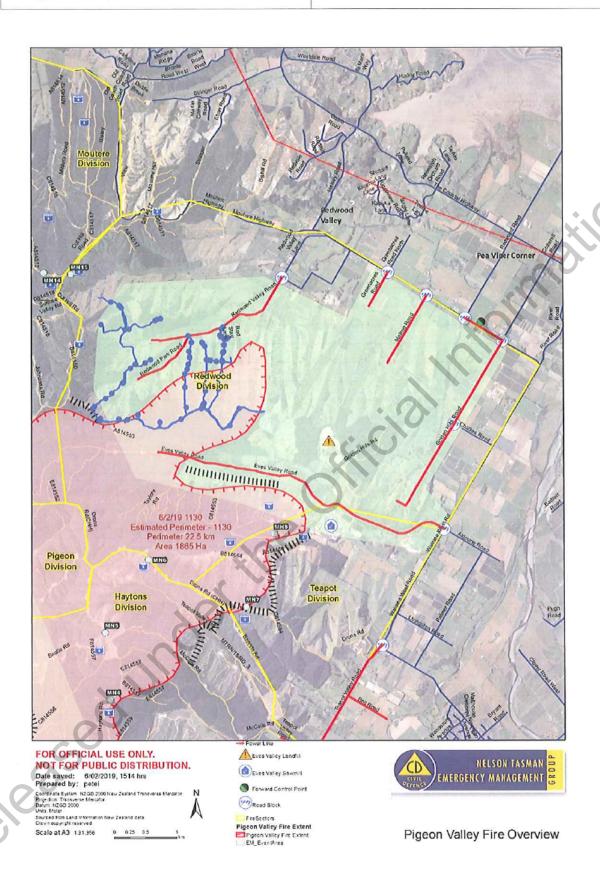
Prepared by:	Date:7Feb2019	Time: 1500	



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Prepared by	Date:7Feb2019	Time: 1500	
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Prepared by:		Date:7Feb2019	Time: 1500

1.	Pigeon	Vall	ey
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2. 7Feb2019 0700 to 1900

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		V		
Prepared by:		Date:7Feb2019	Time: 1500	

IAP Cover Sheet

INCIDENT ACTION PLAN
The items checked below are included in the incident Action Plan SITUATION REPORT INCIDENT OBJECTIVES ORGANISATIONAL LIST SECTOR ASSIGNMENT DIVISIONAL ASSIGNMENT AIR OPERATIONS PLAN COMMUNICATION PLAN SAFETY PLAN MEDICAL PLAN FIRE MAP WEATHER FORECAST AND MAP FIRE BEHAVIOUR FORECAST FACILITIES LAYOUT PLAN
Approved by Incident Controller: Signed Date/Time



Situation Report

RF201

1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 6 th Feb 20	REPORT
	Time 16:30	RF201
3. Location	4. Vegetation	5. NZ TM Grid Ref.
Pigeon Rd, Eves Valley	Forest/Scrub/Grass/Slash/	41°22'32.51"S
,Tasman		173° 1'31.81"E

6. Assessment

A large scrub/ forest fire is currently burning estimated to be 1900ha at 12:30 hrs with a perimeter of 22km.

Values at risk are life and property, assets.

Confirmed minor property damaged. Unconfirmed reports of potential property losses in Eves Valley and Redwood Valley.

The Eves Valley sawmill is at risk and fire crews are carrying out structural protection on structures. Telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind.

Evacuations have occurred in the

- Eves Valley,
- Golden Hills Rd,
- Redwood Valley Rd
- Mallings Rd
- Greenacres Rd

We have confirmed records of 170 households evacuated.

Evacuation of North and South Pigeon Valley, Teapot Valley, Eves Valley, Redwood Park, Malling Rd and Golden Hills Rd.

Notice of potential evacuations in place for Sunrise Valley (top end), Deepdale Rd (Upper Moutere).

Crews are working on most areas on the ground safely and are progressing fire containment due to more favourable weather conditions.

1. Pigeon Valley

2. 6 Feb2019 0700 to 1900

7. Action taken

14 Helicopters managed fire as requested throughout the day

Firebreaks being located to manage NNE wind change.

More predictable fire behaviour has made the fire ground more accessible for ground crews in particularly on the Northern front. These crews are being tasked with structure protection and controlling the fire when it has spotted onto grassland. Black out work has commenced in this area.

8. Factors

On Tuesday strong winds fanned the forest fire and the fire itself was creating its own extreme fire behaviour. Fire behaviour at night was still very active with highly flammable grass and scrubland carrying the fire. Wednesday morning brought a change in wind direction pushing the fire back into the burnt stand areas and changing fire fronts along with more benign fire behaviour from lower temperatures and higher RH.

Light winds and higher relative humidity have prevailed through the day enabling crews to move into direct attack.

9. Predicted Incident Development

The prevailing weather is supporting fire fighter activities with an increased in containment of existing fire lines. This will continue based on the forecast until unfavourable weather conditions occur. Significant reduction in the rate of spread due to current weather.

10. Prepared by:	Date/Time 16:30 6 th Feb 2019
Authorised by (Incident controller)	

Prepared by:	Date:6 Feb2019	Time: 1500
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Incident Objectives RF202

3. Overall Incident Objectives

Protect life (Public and Residents, firefighters)

Protect Property

Identify and keep stakeholders informed

Ensure Firefighter Safety

Identify and protect Critical Infrastructure

Transition to NIMT using shadow process by 1500hrs

Protect Other Assets (Forests, crop etc)

Prepare for significant wind/weather change

Containment lines constructed

- All divisions maintain existing contament lines
- Maintain patrols within divisional areas
- Any flares ups as they occur.

Contain then Extinguish fire

4. Objectives for specified Operational Period

Protect life (Public and Residents)

Identify and keep stakeholders informed

Allow for Firefighter Safety

Sectorise each divisional area

Identify and protect Critical Infrastructure

Protect property and critical infrastructure be establishing hard containment lines with heavy equipment or Identify opportunities for laying down retardant ahead of wind change to protect property/infrastructure

Establish trigger points with 3hrs lead-time for evacuations

Organisation List

3. Incident Control		Cell Phone	Radio Ch
Incident Controller	(Day)		
Deputy IC	(Night)		
Information Officer			
Safety Officer			(0)
Liaison Officer			
			0
4. Agency Representative		Cell Phone	Radio Ch
Lead Agency	CDEM		
Agency	Police		
Agency	CDEM		
	CDEM Duty Phone		
Agency	FENZ Urban Liason		
5. Planning/Intell Section		Cell Phone	Radio Ch
Planning/Intell Manager			
Situations Unit			
Resources Unit			
Management Support Unit			
Information Unit			
Advance Planning Unit			
Technical Specialists Unit			
0			
6. Logistics Section		Cell Phone	Radio Ch
Logistics Manager			
Supply Unit			
Catering Unit			
Facilities Unit			
Finance Unit			
	•	·	•

Prepared by: Da	ate:6 Feb2019	Time: 1500
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1.	Pigeor	າ Valley

2. 6 Feb2019 0700 to 1900

Communications Unit		
Welfare Unit		
Medical Unit		
Ground Support Unit		.:(0)

7. Operations Section		Cell Phone	Radio Ch
Operations Manager			
Deputy Operations Manager		(0)	
Division Pigeon Commander			
Division Hayton Commander			
Division Teapot Commander	÷ (2	
Division Redwood Commander			
Division Moutere Commander			
Division Two Commander			
Sector E Supervisor			
Sector F Supervisor	W6		
Sector G Supervisor			
Sector H Supervisor			
Air Division Commander			
Air Attack Supervisor			
Air Support Supervisor			
0			
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repared by:	Date:6 Feb2019	Time: 1500
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Sector Assignment

3. Sector	4. Description				5. Divisi	on Assigned
6. Sector Supervisor	Affiliation Cellphone		Radio Cl	1		
7. Resources Assigned t	his period			_	_	£,0),
Resource/Crew	Leader	# Pe	rsons	Transport Required	Drop- off Point/ time	Pickup Point/time
				ζ.(
					>	
			*			
8. Sector Assignment / S	Special Instruction	s		l		
	erine					
9. Sector Communication					Phone	Radio Ch
Division/Division Cmdr						
Air Attack Supervisor Safety Officer						
Salety Officer						

Prepared by:	Date:6 Feb2019	Time: 1500
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3. Pigeon		4.Point of ignition to Dove Saddle				
6. Sector Commander	Affiliation	Cellphone		Radio Ch		
6. Resources Assigned the Sector	nis Period	Supervisor		Crews	Radio Ch	
1 Ground Crew						
1 Smoke chaser						
1 Appliance				, (
					9	
7. Division Assignment/ Protect Life and Propert Keep Residents and Stak change Provide Situation Repor *Laydown Retardant to	y keholders ir t to Situatio	nformed in pre			north easterly wind	
8. Division Communicati	ions			Phone	Radio Ch	
Operations Manage	r					
Air Division Commande	r					

repared by:	Date:6 Feb2019	Time: 1500
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3. Haytons		4. Point of ignition to Teapot Valley Rd end				
6. Sector Commander	Affiliation		Cellphone		Radio Ch	
6. Resources Assigned th	nis Period		1		.40)	
Sector		Supervisor		Crews	Radio Ch	
1 Ground Crew				20		
1 Smoke chaser						
1 Appliance						
				X)	
7. Division Assignment/	Special Inst	ructions	+_(
Protect life and Property Keep Residents and Stal change Provide Situation Repor	keholders in	ons Unit at lea			north easterly wind	
*Laydown Retardant to	protect pro	perties				
100C Lakes Crew	Servi					
8. Division Communicat	ions			Phone	Radio Ch	
Operations Manage	r					
Air Division Commande	r					

repared by:	Date:6 Feb2019	Time: 1500
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3. Teapot		4.Eves Valley Rd to Golden Hills Rd				
6. Sector Commander	Affiliation	Cellphone		Radio Ch		
6. Resources Assigned the Sector	nis Period	Supervisor		Crews	Radio Ch	
1 Ground Crew					~0.	
1 Smoke chaser						
1 Appliance						
Urban crew for Protection Provide Situation Report *Laydown Retardant to	t to Situatio	ns Unit at lea		=	uired	
	×	76				
	A.V					
	Sel					
8. Division Communicat	ions		Pho	one	Radio Ch	
8. Division Communications Manage			Pho	one	Radio Ch	

repared by:	Date:6 Feb2019	Time: 1500
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	4. Golden I	4. Golden Hills Rd to Cut Hill Rd				
6. Sector Commander	Affiliation	ffiliation Cellphone		adio Ch		
6. Resources Assigned this Pe	eriod Superviso	r (Crews	Radio Ch		
2 Ground Crew				~0		
2 Smoke chaser						
1 Appliance			. ~			
-			XO			
change		, () Y				
Property/Infrastructure Prote Contain fire South of Mouter Urban crew for protection of Provide Situation Report to S Build containment lines when *Laydown Retardant to prote	e Highway and We Eves Valley Hazard Situations Unit at le re practical in light	st Golden Hills R dous Landfill ast every two ho fuel areas.	ours			
Contain fire South of Mouter Urban crew for protection of Provide Situation Report to S Build containment lines when	e Highway and We Eves Valley Hazard Situations Unit at le re practical in light	st Golden Hills R dous Landfill ast every two ho fuel areas.	ours ment	Radio Ch		
Contain fire South of Mouter Urban crew for protection of Provide Situation Report to S Build containment lines when *Laydown Retardant to prote	e Highway and We Eves Valley Hazard Situations Unit at le re practical in light	st Golden Hills R dous Landfill east every two ho fuel areas. provide containn	ours ment	Radio Ch		

repared by:	Date:6 Feb2019	Time: 1500
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3. Moutere		4. Cut Hill Rd to Dove Hill Saddle				
6. Sector Commander	Affiliatio	Affiliation Cells			Radio Ch	
	Bruce Forestry				Fire 2	
6. Resources Assigned th	nis Period				.:(0)	
Sector	<u> </u>	Supervisor		Crews	Radio Ch	
1 Ground Crew					20	
1 Smoke chaser						
1 Appliance				, (
				X		
				111,		
Protect Life and Propert Keep Residents and Stalchange Excavator to Identify an 1x Bulldozer for Propert Taylors Excavator to est Sunrise/Heines rd Develop Containment linglan for additional containment to Provide Situation Report *Laydown Retardant to	d Establish y/Infrastro ablish esca nes from (ontainmen t to Situat protect pr	n high volume ucture Protect ape route/act Cut Hill to Ede t lines throug ions Unit at l	e water access ction, sunrise v cess down Sup er Road where gh Dovedale sa east every two	to existing valley, estal oplejack Val safe to do addle. o hours	ponds blish escape routes lley rd and so. Consider and	
8. Division Communication			Pho	one	Radio Ch	
Operations Manage						
Air Division Commande	<u> </u>					

Prepared by:	Date:6 Feb2019	Time: 1500
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Communications Plan

RF205

Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	System
Communa		vvaiiiica 1	154.33125 TX	
Division Diggon	Operational	Fire 1	143.82500	
Division Pigeon	Operational			
Division Hayton	Operational	Fire 2	143.78750	
Division Teapot	Operational	Fire 3	140.92500	.0.
Division Redwood	Operational	Fire 1	143.82500	
Division Moutere	Operational	Fire 2	143.78750	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX	
		. (154.33125 TX	
FireCom		FireCom		
4. Telephone		3		
Assigned To	Landline	Cell phone	Fax	Commer
Emergency		111		
Regional Command	70,			
Centre (RCC)				
70.				
6. Other (e.g. email, Sa	tphone, etc)			
GIS Mapping	planning.intelliger	nce@nelsontasman	cdem.govt.nz	
ICP	Reception.nelsont	asman@fireemerg	ency.nz	

Prepared by:	Date:6 Feb2019	Time: 1500

Safety Plan

RF209

3. General Safety Points

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

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

LACES	Fire Orders	Watchouts
L - Lookout(s) A - Awareness - Anchor Point(s) C - Communication(s) E - Escape Route(s) S - Safety Zone(s)	 conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided for safety first. 	 Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or downwind of a fire Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working with aircraft Working around trees or spars

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- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Hayton) from Eves Valley Landfill

Prepared by:	Date:6 Feb2019	Time: 1500	l
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Medical Plan

RF206

3. First Aid Station Name	Location		Phone/Radio Channel		o Paramedics available at Station			
Each Crew must have available one First aid Level 1 Certified	Each crew						P	
Nelson 91 Ambulance	Forward command post	Wain	nea 1	1 Para	ımedic ar	nd 1 EM	T	
					\(\frac{1}{2}\)			
				1				
4. Transportation Ambulance Service	Address		one/Radio nannel		Param able witl		lance	
Ambulance St Johns	Richmond station	111		Yes				
	Motueka/Stoke Nelson/	3						
	0,,							
	0							
5. Hospitals Hospital Name	Address	Ph	one	<u>Trave</u> Road	<u>l Time</u> Air	Burn Unit	Heli Pad	
· ·	Waimea Rd.	03546	1800	27m	4min	у	у	
Hutt Hospital (Burn Unit)		04566	6999	n/a	40min	Y	У	
6. Special Emergency Procedure Emergency Helicopter statione		1"	<u> </u>					
8. Reviewed by Safety Advisor:			Date/Tim	ne				

Prepared by:	Date:6 Feb2019	Time: 1500
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1. Pigeon Valley

2. 6 Feb2019 0700 to 1900

FIRE WEATHER FORECAST

Attention Tasman Fire CD

FIRE WEATHER FORECAST

For Location Pigeon Valley near Wakefield

Issued by MetService at 08:55am 06-Feb-2019, and valid for the following 9 hours

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Precipitation: Remaining drizzle clearing this morning - Less than 1mm.

Temperature: Rising to 20-21C this afternoon.

Humidity: 65% lowering to 40-50% this afternoon.

Outlook for the next 12 hours:

Mailny fine, some cloud about. Temperatures lowering to 10-12C Humidity increasing to 70-80%. Southeast easing to 10-15km/h.

Outlook for next 6 days:

Thursday: Light winds, sunny, dry and max temperature around 21C. Friday: Light winds, sunny, dry and max temperature around 20C. Saturday: Light winds, sunny, dry and max temperature around 22C.

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

Monday: Northerlies and rain, max temperature arond 21C. Tuesday: Light winds, sunny and max temperature around 23C.

Fire Indices for Wednesday 6th Feb 2019 (8:00am) FFMC 83 (easy Ignition)

DMC 95.8 DC 451.1

ISI 2.9 (moderately fast rate)

BUI 125.1 (Extreme)

FWI 14.5 (high fire intensity)

FIRE BEHAVIOUR FORECAST

Fire nam	e: Pigeo	n Road			Predic	tion for:	0800-1	.800 07 F	eb-19
Prepared	by:				Time a	nd date	issued	: 1500 06	Feb 19
Forecast	no. 1				Day Sh	nift			
Assumpt	tions:		today's forecast						
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
17.1	59.4	10.7	0	86	98.3	463.3	4.2	128.1	19.1

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 beha	aviour – slope 0°	Forecast worst case – 28°C 45%RH slope 20° 1400-			
		1800			
Fuel type: Mature Pin	te – 5m pruned	Fuel type: Mature P	Pine – 5m pruned		
Expect HF rate of spre	ead of 40 m/hr	Expect HF rate of sp	oread of 200 m/hr		
HF Intensity	633 kw/m	HF Intensity	2100 kw/m		
Flame lengths	1.5	Flame lengths	3 m		
Fuel type: Scrub/gors	e 2m height	Fuel type: Scrub/ go	orse 2m height		
Expect HF rate of spre	ead of 926 m/hr	Expect HF rate of sp	oread of 3000 m/hr		
HF Intensity	>10000 kw/m	HF Intensity	>10000 kw/m		
Flame lengths	6.7 m	Flame lengths	13 m		
Fuel type: Grass-70%	Fuel type: Grass-70% GC, 100% cover, 0.1m height		Fuel type: Ungrazed Grass -70% GC, 100% cover,		
		0.2m height			
Expect HF rate of spre	ead of 187 m/hr	Expect HF rate of spread of 600 m/hr			
HF Intensity	296 kw/m	HF Intensity	1050 kW/m		
Flame lengths	1.1 m	Flame lengths	2 m		
Safety Consideration	s:	1			
Head Fire intensity, ar	nd flank fire intensity	Head Fire intensity exceed threshold for direct			
exceed threshold for d	irect attack in gorse/	attack in gorse and mature pine fuels, and flank			
scrub fuels.		fires in gorse. Flank fires intensity is now too			
		high for ground crews			
. Weather conditions f	or Thursday are predeicte	d to be similar to Wed	nesday. The NE conditions		

Prepared by:	Date:6 Feb2019	Time: 1500

should continue to provide higher relative hunidities and enable a focus on containment activity.

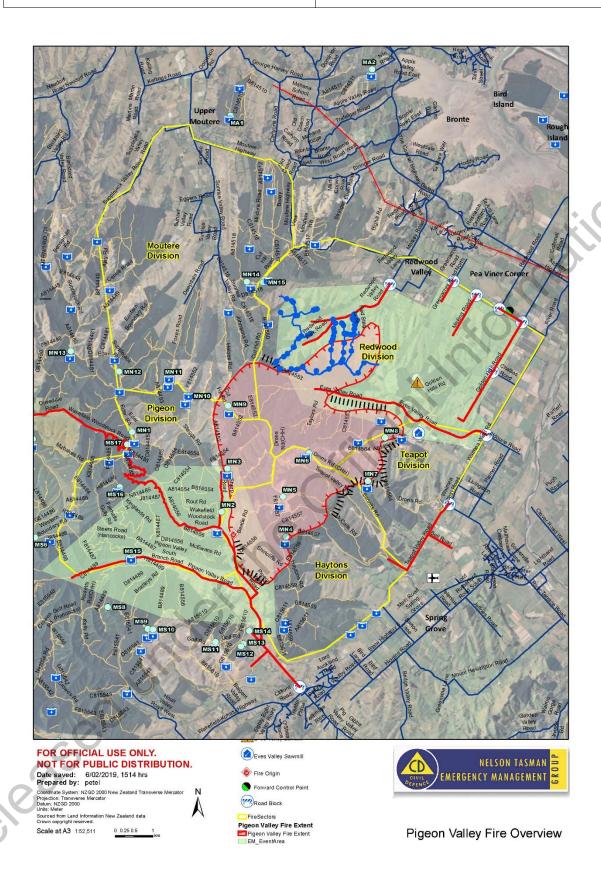
Watch for a fall in RH as the afternoon develops and be prepared to adjust your attack strategy.

2. 6 Feb2019 0700 to 1900

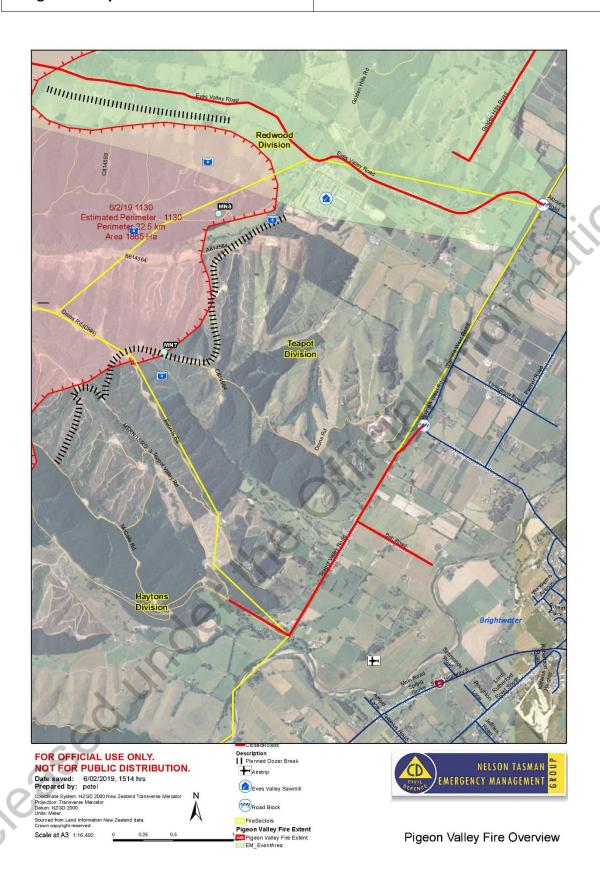
Prepared.

1817

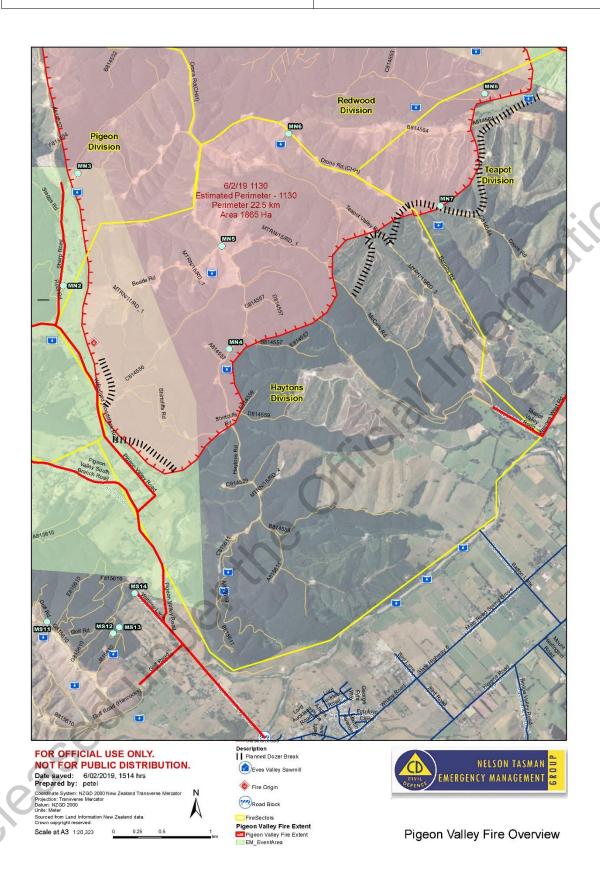
Prepared by:	Date:6 Feb2019	Time: 1500
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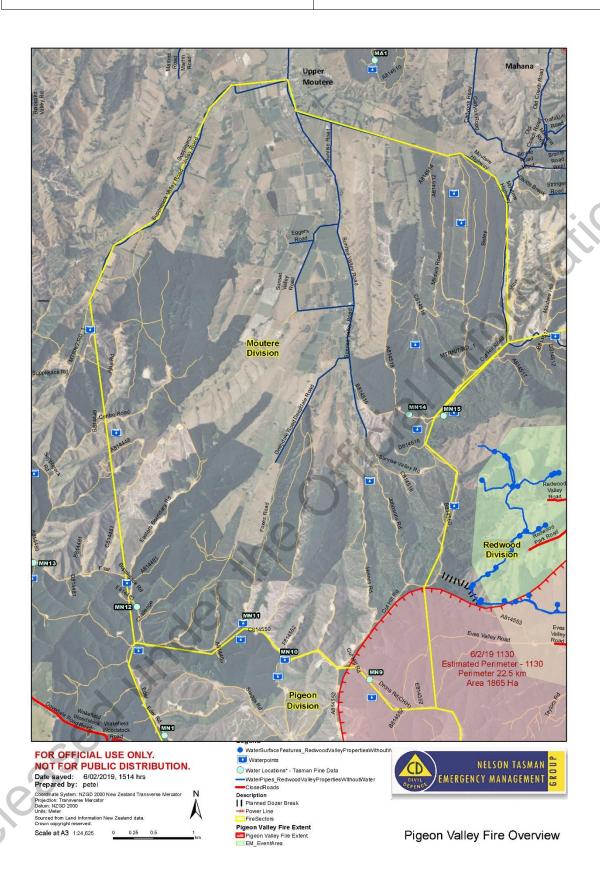
Prepared by:	Date:6 Feb2019	Time: 1500
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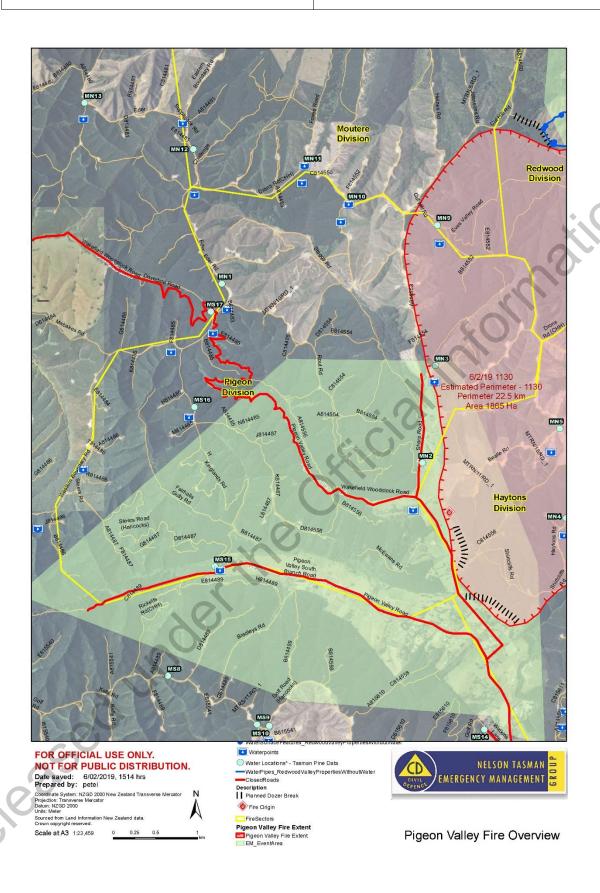
Prepared by:	Date:6 Feb2019	Time: 1500
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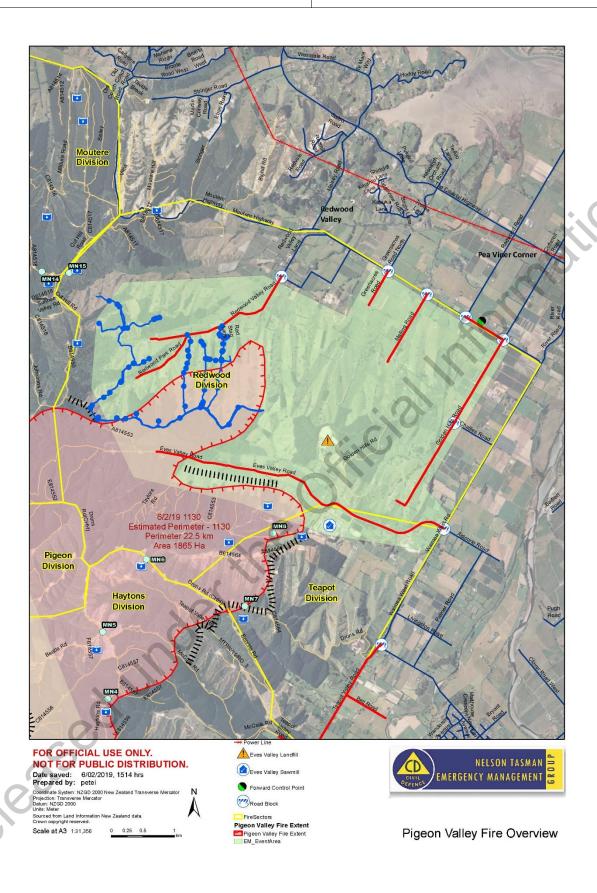
Prepared by:	Date:6 Feb2019	Time: 1500
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Prepared by:	Date:6 Feb2019	Time: 1500
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Prepared by:	Date:6 Feb2019	Time: 1500
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	Incident Name	Operati	onal Period	IAP	COVER SHEET
	Pigeon Valley	Date 8/	2/2019	1	RF199
		Time 07	00 - 1900		
	IN	ICIDEI	NT ACTION	PLAN	
	The items che	cked belov	w are included in the	incident Actio	on Plan
	SITUATION REP	ORT			
	<u> </u> INCIDENT OBJE	CTIVES	S		
	ORGANISATION	NAL LIS	ST .		
	SECTOR ASSIGN	MEN ⁻	Γ		
	DIVISIONAL ASS	SIGNIV	IENT		
	AIR OPERATION	NS PLA	N		
	COMMUNICAT	ION PL	.AN		
	SAFETY PLAN		-		
	☐ MEDICAL PLAN		<i>*</i> . C		
	FIRE MAP				
	☐ WEATHER FORI	ECAST	AND MAP		
	FIRE BEHAVIOU	JR FOR	ECAST		
	OVERVIEW MA	PS AN	D DOWNLOA	ND QR CC	DES
	DUBLIC INFORM	OITAN	N & MEDIA		
	Approved by Incident Cont	troller:	Signed		Date/Time
	Name				2000 7/2/19
	0		**		
20		HAKARATONGA I	FIR EMERGEN		



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 8/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

6. Assessment

A large scrub/ forest fire is currently burning estimated to be 1874ha as at 1900hrs on 7th Feb with a This afternoon we have experienced a breakout in an area where the boundary hadn't been secured approximately 170ha of heavy fuels (pine forest).

25 residences on the boundary of this breakout have been evacuated Values at risk are life, property.

Telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind. Evacuations are still in place for the following areas while operations are still active.

• Eves Valley, Golden Hills Rd, Redwood Valley Rd, Tea Pot Valley, Bartons Lane

7. Action taken

Resources deployed include 6 bull dozers, 7 excavators, 6 tankers, 15 rural appliances, 9 urban appliances, 3 Defence Force appliances and 22 Helicopters are currently working today as well as two fixed wings. A lot of this resource is now targeting the breakout area.

Due to the nature of the terrain and vegetation helicopter resources are targeting this area, though control is proving difficult with the current weather conditions, extreme dryness of the forest/ scrub fuels and the resulting high fire intensity.

Changes in fuel as the fire moves to pasture and to the contingency fire-breaking (on the northern end) will assist in suppressing this breakout.

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

For night shift there will be 11 crew, 5 bull dozers, 5 excavators, 4 tankers, 3 rural appliances and 6 urban appliances. No Defence Force resources.

8. Factors,

Extreme fire conditions. Limited water supply. Changeable wind conditions. Wind conditions the current breakout fire is creating. Sustained 20km winds gusting to 30km/hr, warm temperatures and lower humidity.

9. Predicted Incident Development

Weather conditions and fuel continuity will have a large influence on the management of the current breakout.

6pm Today – 6am Friday Rainfall: None expected.

Sustained wind: NNE 10 km/h or less through to about 10 pm. After 10 pm, winds shift to SSW, remaining less than 10 km/h through to 6 am.

Wind gusts: Gusts up to 30 km/h possible through to about 8 pm. Thereafter, gusts overnight will remain 20 km/h or less.

Temperature: Around 19°C at 6pm, decreasing to 11-12°C by 6am Friday.

Humidity: Near 45% at 6pm, increasing to 70-75% by 6 am Friday.

Efforts to suppress the fire are continuing but proving to be challenging for helicopters due to the height of the vegetation (e.g. trees and grass) and the height of the flames. The effectiveness of our efforts will improve as the fire heads towards the flatter grassland. We are also anticipating that the wind will decrease during the night.

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10. Pre	epared by:		Date/Time:	
Author	rised by	(Incident Controller)	1900 7 th Feb 2019	

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 8/2/2019	OBJECTIVES
	Time 0700 - 1900	RF202

3. Overall Incident Objectives

- 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

- 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.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

5. Prepa	red by:	Date/Time: 1900 7/2/19
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Time 0700 - 1900 3. Incident Control Incident Controller Deputy IC Information Officer Safety Officer NMIT) Radio Ch NMIT) NMIT)		1. Incident Name	2. Operational Period		ORGANISATION
Incident Controller Deputy IC Information Officer Safety Officer NMIT)					ASSIGNMENT RF203
Deputy IC Information Officer Safety Officer NMIT)		3. Incident Control		Phone	Radio Ch
Information Officer Safety Officer NMIT)		Incident Controller	(NIMT)		
Safety Officer NMIT)		Deputy IC	NMIT)		
		Information Officer			
Lipicon Officor		Safety Officer	NMIT)		
Liaison onicei		Liaison Officer			;(O)
4. Agency Representative Phone Radio Ch		4. Agency Representative		Phone	Radio Ch
Lead Agency FENZ PRFO		Lead Agency	FENZ PRFO		*
Agency Police Police		Agency	Police		
Agency		Agency			
Agency CDEM CDEM		Agency			
Agency CDEM Duty Phone		Agency	CDEM Duty Phone		
Agency FENZ Urban Liason		Agency	FENZ Urban Liason		
5. Planning/Intell Section Phone Radio Ch		5. Planning/Intell Section		Phone	Radio Ch
Planning/Intell Manager		Planning/Intell Manager			
Situations Unit		Situations Unit			
(FBAN)					
(Observer)			\ <u>-</u>		
(Intel)		76	<u> </u>		
(GIS)		,70,	·		
(GIS)					
(Observer)				_	
(Observer)					
Resources Unit (Fact)		Resources Unit	-		
(EoC)		2.0	<u> </u>	_	
Check in)					
Management Support Unit	20	Management Support Unit			
Information Unit			<u> </u>		
Advance Planning Unit			_		
Technical Specialists Unit			-		

	_		
6. Logistics Section		Phone	Radio Ch
Logistics Manager	(NMIT)		
	(Day)		
	Night)		
Supply Unit			
Catering Unit			
Facilities Unit			
Finance Unit			.:\O'
Communications Unit			
Medical Unit			
		kO,	
7. Operations Section		Phone	Radio Ch
Operations Manager			
Deputy Operations Manager	*		
Division One Commander			
Sector A Supervisor	0		
Sector B Supervisor			
Sector C Supervisor			
Sector D Supervisor			
Division Two Commander			
Sector E Supervisor			
Sector F Supervisor			
Sector G Supervisor			
Sector H Supervisor			
Air Division Commander	(NMIT)		
Air Attack Supervisor			
Air Support Supervisor			
	_		
8. Prepared by:		Date/Time: 1900 7	/2/19

	1. Incident Name Pigeon Valley			2. Operational Period Date 8/2/2019 Time 0700 – 1900			AS	DIVISION SSIGNMENT
•	3. Division			4. Desc	ription			111 20 10
	Alpha			Point o	f ignition to D	ove Saddle o	on Eder	r Rd
	5. Division Commander	Affili	ation		Phone		Radio) Ch
		,,,						nand: Fire
							Crew:	Simplex
	6. Resources Assigned this Posterior	eriod		Super	visor	Crews		Radio Ch
	Bulldozer D7		TLC				7	
	Excavator 20T		TLC					
	Tasman Smoke Chaser + 3px					40		
	Hira Smoke Chaser + 3px							
	Hira 5575 +4px							
	Doc Motukea 3px				. (1)			
	DOC Takaka 8px							
	Greymouth 4px			CS				
	7. Division Assignment/Spec Ground Crews: Blacking out to length of the perimeter when Provide 2 hourly SITREP to Join Comms Facebook Grounder throughout day. Also	to 30 r here s FCP b up "Pi	metres afe to c y COM geon V	in to the lo so. MS Char alley – II	nnel OPS2 or N NTERNAL CON	Mobile. MMS" and co	ntribut	te imagery and
	Heavy Equipment – 1. Widen the break from 2. Bryants using fellerbu site).			•	• •	-		
	Strength Eder road fir pigeon Valley Rd.							
	Helicopters: Support ground) with requirements	crew a	as requ	ired and	divisional cor	nmanders to	call ai	r attack (
	8. Division Communications					Phone		Radio Ch
	Operations Manager							Fire 1/Cellphone
20	Air Division Commander							Fire 4/Cellphone
	9. Prepared By:					Date/Time	1900	7/2/19

	1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700 – 1900		AS	DIVISION ASSIGNMENT RF204a	
	3. Division		4. Description				
	Xray		Division from Cut hil	l/Eder Rd to	CHH sa	nw mill	
	5. Division Commander	Affiliation	Phone		Radio	Ch	
					Fire 5		
	6. Resources Assigned this Po	eriod	·				
	Sector	I	Supervisor	Crews	5	Radio Ch	
	Appleby Tanker						
	Smoke Chaser Wainui 3px						
	NZDF RFA x7px			&O			
	DOC North Canterbury 5px						
	AFM – 4px						
	length of the perimeter where Provide 2 hourly SITREP to Join Comms Facebook Growideo throughout day. Also where Equipment —Cut and so paddocks past Johnsons Reflicopters: Support ground with requirements	o FCP by COM oup "Pigeon \ view images a strengthen a l d crew as requ	MMS Channel OPS2 or Valley – INTERNAL COI and video collected by line along Cuthill Rd from	MMS" and co aerial ops do	uring da	re it meets the	
	8. Division Communications Operations Manager			Phone	, 	Radio Ch Fire 1/Cellphone	
~ (Air Division Commander					Fire 4/Cellphone	
80	10. Prepared By:			Date/Time	1900 ·	7/2/19	

Pigeon Valley		2. Operational Per Date 8/2/2019 Time 0700 – 1900	iod	DIVISION ASSIGNMENT RF204
3. Division		4. Description		111 204
Zulu		Division from Cut h	nill/Eder Rd to Cl	HH saw mill
5. Division Commander	Affiliation	Phone	ı	Radio Ch
6. Resources Assigned this	Period	Company for a	Cuarra	Davis Ch
Sector 4x Excavator 20T	TLC	Supervisor	Crews	Radio Ch
D65 Dozer	110			
Watertanker				~0
Tree + Forestry + 4px				
Otago 10px				*
- 100 - 10 h				·
7. Division Assignment/Sp Ground Crews: Blacking ou the length of the perime Provide 2 hourly SITREP Join Comms Facebook G video throughout day. Als	t to 30 metre ter where sa to FCP by CO roup "Pigeon o view image	s in to the forest in su fe to do so. MMS Channel OPS2 o Valley – INTERNAL CO s and video collected l	r Mobile DMMS" and cont by aerial ops dur	tribute imagery and ring day.
7. Division Assignment/Sp Ground Crews: Blacking ou the length of the perime Provide 2 hourly SITREP	t to 30 metre ter where sa to FCP by CO roup "Pigeon o view image oreak from the ennets Rd d crew as rec	s in to the forest in surfe to do so. MMS Channel OPS2 or Valley – INTERNAL CO s and video collected le e existing retardant lin	r Mobile DMMS" and cont by aerial ops dur ne, follow buslin	tribute imagery and ring day. e across McCalls Road
7. Division Assignment/Sp Ground Crews: Blacking ou the length of the perime Provide 2 hourly SITREP Join Comms Facebook G video throughout day. Als Heavy Equipment –Dozer by to sector boundary at Be Helicopters: Support ground	t to 30 metre ter where sa to FCP by CO roup "Pigeon o view image break from th ennets Rd d crew as rec s	s in to the forest in surfe to do so. MMS Channel OPS2 or Valley – INTERNAL CO s and video collected le e existing retardant lin	r Mobile DMMS" and cont by aerial ops dur ne, follow buslin	tribute imagery and ring day. e across McCalls Road
7. Division Assignment/Sp Ground Crews: Blacking ou the length of the perime Provide 2 hourly SITREP Join Comms Facebook G video throughout day. Als Heavy Equipment —Dozer & to sector boundary at Be Helicopters: Support groun) with requirement	t to 30 metre ter where sa to FCP by CO roup "Pigeon o view image break from th ennets Rd d crew as rec s	s in to the forest in surfe to do so. MMS Channel OPS2 or Valley – INTERNAL CO s and video collected le e existing retardant lin	r Mobile DMMS" and cont by aerial ops dur ne, follow buslin ommanders to c	tribute imagery and ring day. e across McCalls Road
7. Division Assignment/Sp Ground Crews: Blacking ou the length of the perime Provide 2 hourly SITREP Join Comms Facebook G video throughout day. Als Heavy Equipment —Dozer be to sector boundary at Be Helicopters: Support groun) with requirement	t to 30 metre ter where sa to FCP by CO roup "Pigeon o view image break from th ennets Rd d crew as rec s	s in to the forest in surfe to do so. MMS Channel OPS2 or Valley – INTERNAL CO s and video collected le e existing retardant lin	r Mobile DMMS" and cont by aerial ops dur ne, follow buslin ommanders to c	tribute imagery and ring day. e across McCalls Road call air attack (Radio Ch

1. Incident Name Pigeon Valley		Date	2. Operational Period Date 8/2/2019 Time 0700 – 1900		DIVISION ASSIGNMENT RF204a	
Division ankee		4. Description Bennets Road to CHH saw mill at Eves Valley				
5. Division Commander	Affiliation	7	Phone		Radio Ch	
	Wakefield				Fire 3	
6. Resources Assigned this F			ervisor	Crews	Radio Ch	
2x Excavator 20T	Tay	lors				
Bulldozer D8	Тау	lors				
Brightwater 5026 + 3px						
Rural Tanker Downers + 1px	(
Brightwater 5011 + 3px				KO,		
Stoke 221 + 5px						
Richmond 331 + 4px						
Ngatimoti + 4px			. 0			
 Ground Crews: Urban crews for protent Blacking out to 30 monof the perimeter who Provide 2 hourly SITE Join Comms Facebood and video throughout Heavy Equipment – 2x Excan Zulu intersection. Helicopters: Support ground) with requirements 	etres in to tere safe to detere safe to celer to FCP be k Group "Pit day. Vators work I crew as re	ne forest lo so. y COMM geon Val	in successive IS Channel OP Iley – INTERNA	10 metre incre S2 or Mobile LL COMMS" and reaks and cleari	ments along the length d contribute imagery ng around the Yankee	
8. Division Communications				Phone	Radio Ch	
Operations Manager					Fire 1/Cellphone	
Air Division Commander					Fire 4/Cellphone	
12. Prepared By:				1	1900 7/2/19	

Pigeon Valley Date 8/2/2019 Time 0700 – 1900 3. Division Property Assessments Functional division across Pigeon Valley Incident 5. Division Commander Affiliation Phone Radio Ch 6. Resources Assigned this Period	RF204a				
3. Division Property Assessments Functional division across Pigeon Valley Incident 5. Division Commander Affiliation Phone Radio Ch 6. Resources Assigned this Period Sector Supervisor Crews Radio FENZ Liaison 7. Division Assignment/Special Instructions 1. The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation .Fire danager risk assess	RF204a				
Property Assessments Functional division across Pigeon Valley Incident Functional division across Pigeon Valley Incident Functional division across Pigeon Valley Incident Radio Ch Sector Supervisor Crews Radio FENZ Liaison FENZ Liaison 7. Division Assignment/Special Instructions 1. The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are designed as a second control of the safety of responders and residents during visitation and reoccupation . Fire danager risk assessments	P				
5. Division Commander Affiliation Phone Radio Ch 6. Resources Assigned this Period Sector Supervisor FENZ Liaison 7. Division Assignment/Special Instructions 1. The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation . Fire danager risk assess	P				
6. Resources Assigned this Period Sector Supervisor Crews Radi FENZ Liaison 7. Division Assignment/Special Instructions 1. The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation . Fire danager risk assess	lio Ch				
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FENZ Liaison 7. Division Assignment/Special Instructions 1. The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation . Fire danager risk assessments are safety of responders and residents during visitation and reoccupation .	lio Ch				
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 The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation . Fire danager risk asses 					
responders and residents during visitation and reoccupation .Fire danager risk asses					
	f				
will be completed for each property surrounding area and access routes. The risk	ssments				
will be completed for each property, surrounding area and access routes. The risk					
assessments will include work on danger trees, condtion of surrounding flammable					
and built structures. These will be reviewed in relation to incident statues and predi	licted				
weather.					
2. The assessments will include staff from Civil defence, FENZ and specialist contractors as					
required.	L				
3. Liaison communications will be maintained with division commanders at all times w	vnen on				
the incident ground 4. Timeline for the assessments to be confirmed					
4. Timeline for the assessments to be committed					

8. Division Communications	Phone	Radio Ch
Operations Manager		Fire 1/Cellphone
Air Division Commander		Fire 4/Cellphone
13. Prepared By:	Date/Time 190	0 7/2/19
Peleo.		

Pigeon Valley		2. Operational Pe Date 8/2/2019 Time 0700 – 1900		ASS	DIVIS IGNM
3. Division		4. Description			
Rabbit Island		Rabbit Island			
5. Division Commander	Affiliation	n Phone		Radio Ch	1
				Fire 3	
6. Resources Assigned this P Sector	eriod	Supervisor	Crews	5	Radio
Mapua Excavator				À	
Motueka Urban + 5px				7	
			&O)		
7. Division Assignment/Spec • Patrol and he		as identified			
Patrol and he	ot spotting		Phone		Padio
Patrol and he 8. Division Communications	ot spotting		Phone		<i>Radio (</i> re 1/Cell
Patrol and he	ot spotting		Phone	Fi	<i>Radio (</i> re 1/Cell re 4/Cell

1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700 - 1900			AIR (OPERATIONS PLAN
						RF20
3. Personnel and Comm	unications					
Position	N	ame	Affiliati	ion	Phone	Radio Chan
Air Div Commander						
Air Attack Supervisor						Fire 4
Air Support Supervisor						X
Lead Helicopter Pilot						
Lead Fixed-Wing Pilot						
4. Air Resource Assignm						0
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assignment	Tacti Freq/(Telephone Numbers
Becks	UH-1	HHF		Fire 4		
Becks	UH-1	ННВ		Fire 4		
Helicharter	500D	HXX	. 0	Fire 4		
Garden City Helicopters	B3	IHL	70	Fire 4		
Garden City rk Helicopters	EC130	IGF	· ()	Fire 4		
Garden City Helicopters	BK	IVB		Fire 4		
Reid Heli	B2	HPE		Fire 4		
Reid Heli	FX2	HEX	<u> </u>	Fire 4	+	
Reid Heli	B2	IOR	 	Fire 4		
Southern Heli Lift Marlhorough Heli	UH-1L	HUE	 	Fire 4		
Marlborough Heli Marlborough Heli	Jetranger Long Ranger	HTA	 	Fire 4		
Skyworks	B3	HWW		Fire 4		
Amuri Heli	FX2	HJM		Fire 4		
Anderson	B2	НКА		Fire 4		
Wellington Heli	EC130	IWW		Fire 4		
Independent Heli	EC130	IWS		Fire 4		
Christchurch Heli	B2	HNC		Fire 4		
Wanaka Heli	B2	HFF		Fire 4		
Mt Hutt Heli	BA	HDQ	ļ	Fire 4		
Heliventures	B2	IER	 	Fire 4		
Murchison Heli	0		 	Fire 4		
	Cresco Airtractor		 	Fire 4		
Interpine	RPAS / UAV	PINES1		Fire 4		
5. Location of Filling Poi			<u>L</u>	11164		
Name	IIIS/ Jei vice Ai	eas	e	Grid Refe	ranca	
Heli base		-41.31777	7, 137.10987	nu nere.	Terree	
		44.00.00.0	S 173 05 04.6			

8. Prepared By:	Date/Time: 1900 7/2/19
	40/1
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99.0	
Jeased under the	

1. Incident Name		2. Operational	Period	COMMUNICATIONS
Pigeon Valley		Date 8/2/2019		PLAN
		Time 0700-190	00	RF205
3. Radio Channels Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	
Division Alpha	Operation al	Fire 1	154.33125 TX 143.8250	
Division Zulu	Operation	Fire 2	143.7875	0
Division Yankie	Operation al	Fire 3	140.9250	0
Division Xray	Operation al	Fire 1	143.8250	0
Division Bravo	Operation al	Fire 2	143.7875	0
Air Ops -Heli	Operation al	Fire 4	140.6125	0
Air Ops – Fixed Wing	Operation al	Fire 10	140.9875	0
Emergency		Waimea 1	152.55000 RX 154.33125 TX	
Resources		Waimea 1	152.55000 R) 154.33125 T)	
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, Satp	hone, etc)		1	
Resources	resources@l	ENZNelsonIMT.c	<u>om</u>	
Safety	safety@FEN	ZNelsonIMT.com		
Logistics	logistics@FE	NZNelsonIMT.cor	<u>n</u>	
PIM	pim@FENZN	elsonIMT.com		
Planning	planning@Fl	ENZNelsonIMT.co	<u>m</u>	
Forward Control Point (FCP)		fireemergency.nz		
Situation / GIS / Intel	situation@F	ENZNelsonIMT.co	<u>ım</u>	

6. Prepared by:		Date/Time 1900 7/2/19
6 8 11		-
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS	https://www.facebook.com/groups/192408299103555
Operations	operations@FENZNelsonIMT.com	

1. Incident Name	2. Operational Period	SAFETY PLAN
Pigeon Valley	Date 8/2/2019	
	Time 0700-1900	RF209

3. General Safety Points

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

zeleased under the official Maintain regular situation reports (containing all relevant information) via line supervisors.

ı	Λ	r	F۵
ı	_	L	F .5

- L Lookout(s)
- A Awareness
 - Anchor Point(s)
- \mathbf{C} Communication(s)
- **E** Escape Route(s)
- S Safety Zone(s)

Fire Orders

- 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. **S**tay alert. Keep calm, Think clearly, act decisively.
- 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.

Watchouts

- 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.
- 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

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

5. Prepared By:	Date/Time 1900 7/2/19	
80.		
180		
20		

1. Incident Name		2. Operatio	nal Perio	od		MFI	DICAL
Pigeon Valley		Date 8/2/2019				PLAN	
		Time 0700-1	1900				RF206
3. First Aid Station			Phon	e/Radio	Paran	nedics	
Name	Loca	tion	Channel 		available at Station		ion
Each Crew must have available one First aid Level 1 Certified	Each crew	V					7
Nelson 91 Ambulance	Forward command	d post	Waim	ea 1	1 Paramedic	and 1 E	MT
					100		
				6.(
4. Transportation Ambulance Service	Add	ress	Phon Chai	e/Radio nnel	Paran available wi		ulance
Ambulance St Johns	Closest ui	nit	111	>	Yes		
5. Hospitals					<u>Travel Time</u>		Heli
Hospital Name	Address	Ph 	one	Road	Air	Unit	Pad
Nelson Public Emergency	Waimea Ro	d. 111		27m	4min	У	у
Hutt Hospital (Burn Unit)		111		n/a	40min	Υ	У
6. Special Emergency Procedure St John will transport patients to		health facil	ity is app	oropriate			
200							

7. Prepared By:	Shift - Manager Nelson	Date/Time 1900 7/2/19
8. Reviewed by Safet	y Advisor:	Date/Time 1900 7/2/19

FIRE BEHAVIOUR FORECAST

Fire nam	re name: Pigeon Road				Prediction for: 0800-1800 08 Feb-19				
Prepared by:					Time a	Time and date issued: 1400 Feb 19			
Forecast no. 4				Day Sh	Day Shift				
Assumptions: Fr			Friday's	forecast					
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
20	52	12	0	88	101	470	5.8	132	24

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

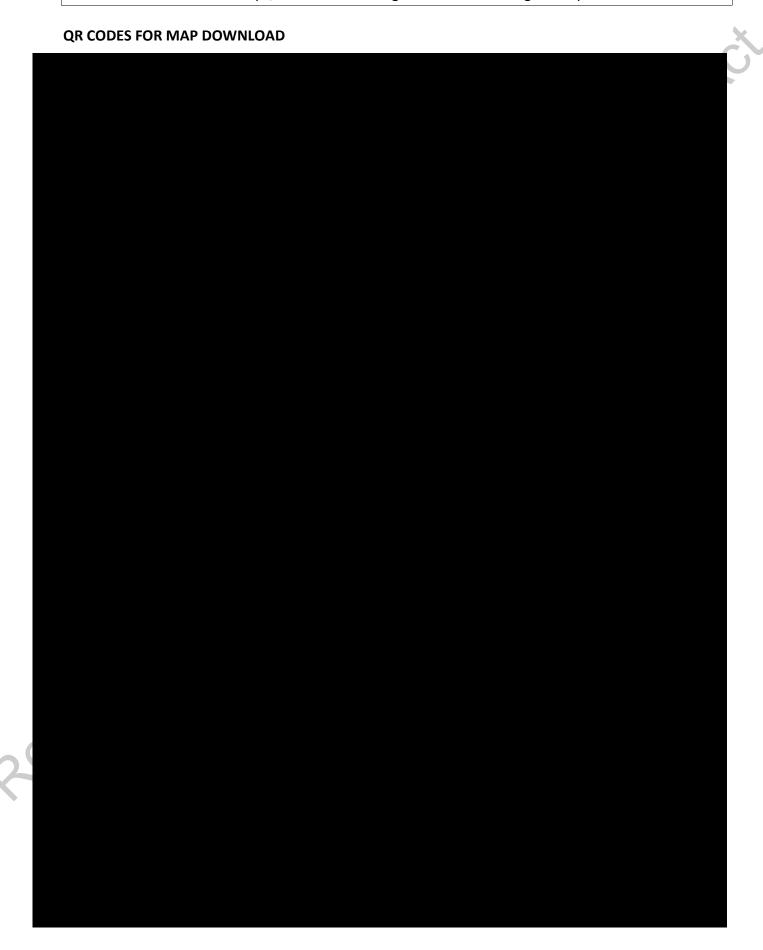
Fire Behaviour General:

Expected fire behaviour – slope 0°	Forecast worst case – 28°C 45%RH slope 20° 1400-			
	1800			
Fuel type: Mature Pine – 5m pruned	Fuel type: Mature Pine – 5m pruned			
Expect HF rate of spread of 50 m/hr	Expect HF rate of spread of 200 m/hr			
HF Intensity 800 kw/m	HF Intensity 2100 kw/m			
Flame lengths 1.5-2	Flame lengths 3 m			
Fuel type: Scrub/gorse 2m height	Fuel type: Scrub/ gorse 2m height			
Expect HF rate of spread of 1000 m/hr	Expect HF rate of spread of 3000 m/hr			
HF Intensity 10000 kw/m	HF Intensity >10000 kw/m			
Flame lengths 6 m	Flame lengths 13 m			
Fuel type: Grass-80% GC, 100% cover, 0.1m heig	ght Fuel type: Ungrazed Grass -70% GC, 100% cover,			
	0.2m height			
Expect HF rate of spread of 200 m/hr	Expect HF rate of spread of 600 m/hr			
HF Intensity 350 kw/m	HF Intensity 1150 kW/m			
Flame lengths 1.2 m	Flame lengths 2 m			
Sofoty Consideration a				
Safety Considerations:				
Head Fire intensity, and flank fire intensity	Head Fire intensity exceed threshold for direct			
exceed threshold for direct attack in gorse/	attack in gorse and mature pine fuels, and flank			
scrub fuels.	fires in gorse. Flank fires intensity is now too			
2.0	high for ground crews			
Based on the Dovedale weather station and N	NIWA forecasting, Friday is predicting to have NE			
winds stronger than Thursday.				

If prediction time is before 1200 NZST, use yesterday's noon daily FWI values; if after 1200 NZST, use today's FWI values.

Fire Type = Surface fire (S), Intermittent (I) (i.e., torching), or continuous Crown fire (C)

1. Incident Name	2. Operational Period	MAPS
Pigeon Valley	Date 8/2/2019	
	Time 0700-1900	RF
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps		



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1. Incident Name	2. Operational Period
Pigeon Valley Fire, Nelson	08/02/2019 – 0700 to 1900

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 Thursday 7th February

PIM Manager –

PIM Manager 2IC
Media Manager -

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.

PIM meetings for 07/02/2019
10:30hrs – 1st Planning Meeting
13:00hrs – Tactics Meeting (sit-in only)
17:00hrs – 2nd Planning meeting & IAP Approval
Other informal meetings as required

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,	RCC Christchurch	and cc, and and Media@fireandemergency.nz

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 th Feb. Next one potentially Sat 9 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	10,0

Contact	
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
6	The Project (TV) have requested for interviews with
	firefighters for tomorrow night's show (8 th Feb)
TV	
Navionana	
Newspapers	
Media	Schedule
Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on
J.	interest overnight.
	-
	Social media Helpline Information points Community contacts/meetings Media message distribution Radio TV Newspapers

Media site visits	None scheduled currently.		
Interviews	Checkpoint interviewing John at 10pm tonight (07/02/19)		

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.

7/2/19 1900

Official Inform

Official Inform

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	Incident Name	Operational Period	IAP COVER SHEET	
Pigeon Valley		Date 8&9/2/2019	- RF199	
		Time 1900 - 1900		
	INCIDENT ACTION PLAN			
	The items checked below are included in the incident Action Plan			
	SITUATION REP	PORT		
	∐INCIDENT OBJE	CTIVES		
	ORGANISATION	NAL LIST		
	SECTOR ASSIGNMENT			
	DIVISIONAL ASS	SIGNMENT		
	COMMUNICAT	ION PLAN		
	SAFETY PLAN			
	MEDICAL PLAN	•		
	FIRE MAP			
	☐ WEATHER FORECAST AND MAP			
	FIRE BEHAVIOUR FORECAST			
	UOVERVIEW MA	PS AND DOWNLOA	D QR CODES	
	☐ PUBLIC INFORMATION & MEDIA			
	Approved by Incident Cont	troller: Signed	Date/Time	
	Name		2000 7/2/19	
20	20.500	HAKARATONGA IWI NEW ZEALAND		



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 8&9/2/2019	REPORT
	Time 1900 - 0700	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2100ha as at 0700hrs on 8th Forest (may have a recalculated total area by 1900hrs).

Thursday afternoon we experienced a breakout in an area where the fire retardant and aerial supeffective in containing the fire up. Fire spotting occurred in excess of 500m at times. Up until this has burnt approximately 415ha of heavy fuels (pine forest). The fire behaviour has been mainly in with some progression downslope. Perimeter growth for the day has not yet been calculated.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very conditions on Thursday night. The fire has backed up on several structures close to the forest bot east, but being protected by effective fire breaks which were established Thursday night.

Evacuations operations have commenced for the town of Wakefield based on predicted rates of another breakout occurs and a front is generated. Evacuation trigger points were established wit for Pigeon Valley and three hour notification for Wakefield. We were unable to identify trigger police with adequate warning for effective evacuation. As a result it was jointly decided between FENZ that evacuation of the Wakefield residents which incrementally commenced this afternoon

Evacuations are still in place for the following areas while operations are still active.

- Eves Valley,
- Golden Hills Rd,
- Redwood Valley Rd
- Tea Pot Valley
- Barton Lane

Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind mobile site are currently being installed near Wakefield so that the communications at Wakefield in the event the current site is damaged. A telecommunications crew is working currently workin secure the asset.

A new fire has started at Atawhai Road, a short distance north of Nelson township, at approximately 1400hrs. Fireline overhead, helicopters and ground crew have been assigned to this new start. Resources deployed are 5x helicopters, 4x urban and one rural have arrived on site.

7. Action taken

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

- 22 helicopters, two fixed wings plane.
- 18 vegetation crews, and 8 structure crews (141 personnel)
- 15 heavy machines (excavators and dozers).
- 42 incident management staff.

Due to the nature of the current weather conditions, the terrain, and the vegetation composition (extreme dryness of the vegetation), helicopter resources are targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 85% of the boundary on sectors Zulu and Yankee.

Changes in fuel as the fire moves to pasture and to the contingency fire-breaking (on the northern end) will assist in suppressing this breakout. On the north western area, sector X-ray, machinery and feller bunchers are felling larger trees and shifting logs to enhance the fire break there in anticipation of the SE wind, which is forecasted again for tomorrow.

Fire observers in Wakefield and including one in helicopter are providing observation of areas which have potential for spotting in and around the Wakefield Township.

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

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

We actioned one Drone Team available for overnight surveillance, and the USAR Drone Team is arriving tomorrow.

We have requested from R4 RCC additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has been dispatched to the Atawhai Road fire.

8. Factors,

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation. Forecasted winds have been in place since 1100hrs of NE 20km, gusting to 35km/hr. The wind strength and smoke is proving challenging for aerial operations.

The forecasted increase to Relative Humidity has occurred and should benefit the firefighting operations as the day progresses.

9. Predicted Incident Development

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

Weather conditions over the next two days involves strengthening northerlies with predictions of wind gusts of up to N/NE 55km/hr predicted on Sunday.

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.

10. Prepared by	<i>y</i> :	Date/Time:
Authorised by	(Incident Controller)	1900 8 th Feb 2019

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 8&9/2/2019	OBJECTIVES
	Time 1900 - 0700	RF202

3. Overall Incident Objectives

- 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

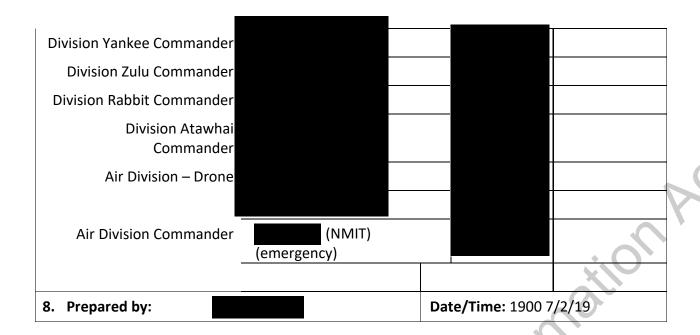
- 1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.
- 2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and 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.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

5. Specific operational tasks for this shift to meet objectives

- Crew blacking out to 30m in 10m increments
- Patrol, and monitor all fire edges
- Heavy machinery to reinforce firebreaks and establish new lines identified in sectors.
- Urban appliances tasked for structure protection.

5.	Prepared by:	Date/Time: 1900 7/2/19

1. Incident Name	2. Operational Period Date 8&9/2/2019		ORGANISATION ASSIGNMENT
	Time 1900 - 0700		RF203
3. Incident Control		Phone	Radio Ch
Incident Controller)		
	(NIMT) (Emergency)		
Deputy IC			
Information Officer			
Safety Officer			1:40
	(NMIT) (Emergency)		
Liaison Officer			
		80	
_	•		
4. Agency Representative -		Phon	e Radio Ch
Lead Agency		-	
Agency		-	
Agency		-	
Agency		-	
Agency		-	
Agency	FENZ Urban Liason		
5. Planning/Intell Section	- Emergency contacts	Pho	ne Radio Ch
Planning/Intell Manager			
Situations Unit			
Resources Unit			
6. Logistics Section		Phone	Radio Ch
Logistics Manager	(NMIT)		
7. Operations Section	P	hone	Radio Ch
Operations Manager			
Deputy Operations Manager	r		
	(Emergency)		
	(Emergency)		
	(Emergency)		
Division Alpha Commander			
Division Xray Commande	r		



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		2. Operational Perio	od	DIVISION
Pigeon Valley		Date 8&9/2/2019		
		Time 1900 - 0700		ASSIGNMEN [®]
3. Division		4. Description		W 20
Alpha				
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this F Sector	eriod	Supervisor	Crew:	s Radio Ch
2 Dozers				
3 Excavators				
3 4px Crew				
			&O	
		. (2)		
Crews blanking out to 30m in Patrol and monitor all of Div • A1 Patrol to ford bou	r Edge undary and eva		and liaise.	
 A2 – x2 patrol either Alpha 1 - Div break to Ford of Alpha 2 – From ford on Shar 	on Sharps Rd	II Johnsons Rd interse	ction (update	ed Div break)
Alpha 1 - Div break to Ford	on Sharps Rd ps rd to Cuthil	Il Johnsons Rd interse	ction (update	
Alpha 1 - Div break to Ford of Alpha 2 – From ford on Shar	on Sharps Rd ps rd to Cuthil	Il Johnsons Rd interse		

1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT RF204a	
3. Division		4. Description		NF 204a	
Xray					
5. Division Commander	Affiliation	Phone		Radio Ch	
6. Resources Assigned this Personal Sector	riod	Supervisor	Crews	Radio Ch	
3x 4WD Tankers					
2x Bulk tanker					
3x 4px Crew 1x Dozer				*	
1x Dozei			(0)		
To patrol, let fire com Dozer to clear Johnso X2 Patrol X3 Monitor Xray 1 – Cuthill/Johnsons Red	ns Rd from Cu	thill Rd to Sunrise va			
Xray 2 - 5423000/1603000 to Xray 3 - Redwood Valley Rd a	intersection	of Redwood Valley	Rd and Red St		
8. Division Communications			Phone	Radio Ch	
Operations Manager					

1. Incident Name Pigeon Valley		2. Operational Pe Date 8&9/2/2019 Time 1900 - 0700	DIVISION ASSIGNMENT RF204a	
3. Division Yankee		4. Description		NF2U4d
5. Division Commander	Affiliation	Phone		Radio Ch
5. Division communication	Ajjination	THORE		nadio en
6. Resources Assigned this Sector	Period	Supervisor	Crew	s Radio Ch
1x Dozers				
1x Urban Appliances				
3x 4px Crew			(0)	
• Y1 Mop up and patro • Y2 Dozer build line TE 1 Appliance to pro Yankee 1 – South edge of n Yankee 2 – Xray div break	BD tect mill and as aill to div brea	k at Zulu		
8. Division Communication	S	•	Phone	Radio Ch
Operations Manager				
11. Prepared By:			Date/Time	<u> </u>
11. Trepared by:			Date, Tillio	<u> </u>

	1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700			DIVISION ASSIGNMENT RF204a	
	3. Division Zulu		4. Des	cription		N 204a	
	5. Division Commander	Affiliation		Phone		Radio Ch	
	6. Resources Assigned this Sector	Period	Super	rvisor	Crews	Radio Ch	
	2x Dozers						
	2x Excavators						
	1x 4px Crew						
	1x Bulk Tanker				%O,		
	1x 4wd Tanker						
	2x Smoke Chaser						
	2x Urban Crew			. (1)			
	7. Division Assignment/Sponts and est Prush up firebreaks	ine with HEQ or n experienced c ructure protect	nto 22 rew mon			ocal knowledge critical.	
	8. Division Communication Operations Manager	S			Phone	Radio Ch	
20	· <u> </u>						
	12. Prepared By:				Date/Time	1	
Ť		<u> </u>			1		

1. Incident Name Pigeon Valley	2. Operational Per Date 8&9/2/2019 Time 1900 - 0700	riod	DIVISION ASSIGNMENT RF204a	
3. Division		4. Description		
Atawhai 5. Division Commander	Affiliation	n Phone		Radio Ch
6. Resources Assigned this P Sector	eriod	Supervisor	Crews	Radio Ch
			\osign (1)	
		(0)		
7. Division Assignment/Spe Crew and equipment resource			and ground ins	spections.
ased unde				
8. Division Communications			Phone	Radio Ch
Operations Manager				
13. Prepared By:			Date/Time	

	1. Incident Nam	е	2. Ope	erational F	Period			AIR OPER	ATIONS PLAN
	Pigeon Valley		Date	8&9/2/20:	19				RF208
				1900 - 070	0				
	3. Personnel and Co	ommuni	cations	None		A f f:1: _ +: _	_	Dhana	Dadia Chan
	Position Air Div Comm	ander		Name (Eme	rgency)	Affiliatio	n 	Phone	Radio Chan
				(Eine	igency)				•
	Air Division – [rone							
	4. Air Resource Ass				1			-	1 - 1
	Pilot Name/ Company	Aircra ⁻ Type		Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name		Telephone Numbers
	Сотрату	1700				i i oq/ onum			
	Interpine	RPAS /	/	PINES1		Fire 4		(0)	
	5. Location of Fillin	ı	/Service	Areas					
		Name			1			Reference	
	Heli base					77, 137.10987	_	•	
	Fixed wing	. ,				9 S 173 05 04	6 E		
	6. Safety Notes / H	azards /	Radio C	Coverage Lim	nitations	C.C			
	7. Air Operations S	pecial Ec	quip or S	Service					
	Drone operations a	re taske	d to moi	nitor sector 2	Zulu and Ya	inkee for fire i	novemei	nt with infrared	
					2)				
	8. Prepared By:			*/()	D	ate/Time : 190	00 7/2/19	Ð	
			,	1					
			. 0						
			4						
	4								
	2								
	~0	•							
	60								
	25								
	0								
	O								
~ 0									
	8. Prepared By:								

1. Incident Name		2. Operational	Period	COMMUNICATIONS
Pigeon Valley		Date 8&9/2/20		PLAN
3. Radio Channels		Time 1900 - 07	00	RF205
Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 R	X
			154.33125 TX	X
Division Alpha	Operational	Fire 1	143.825	500
Division Zulu	Operational	Fire 2	143.787	750
Division Yankie	Operational	Fire 3	140.925	500
Division Xray	Operational	Fire 1	143.825	500
Division Bravo	Operational	Fire 2	143.787	750
Air Ops -Heli	Operational	Fire 4	140.612	250
Air Ops – Fixed Wing	Operational	Fire 10	140.987	750
Emergency		Waimea 1	152.55000 R	x
			154.33125 TX	X
Resources		Waimea 1	152.55000 R	
			154.33125 TX	X
FireCom		FireCom)	
2 Hourly - Sitrep		OPSR2	Use mobile if o	difficult coms to FCP
4. Telephone Assigned To	Landline	Cell phone	Fax	Comments
Emergency	Laname	111	, ux	Commencs
Regional Command Centre (RCC)				
6. Other (e.g. email, Sat	tphone, etc)			
Resources	resources@FE	NZNelsonIMT.com	1	
Safety	safety@FENZN	NelsonIMT.com		
Logistics	logistics@FEN	ZNelsonIMT.com		
PIM	pim@FENZNe	IsonIMT.com		
Planning	planning@FEN	NZNelsonIMT.com		
Forward Control Point (icu.nelson@fii	reemergency.nz		
Situation / GIS / Intel	situation@FEN	NZNelsonIMT.com		
Operations	operations@F	ENZNelsonIMT.co	<u>m</u>	
Photos and imagery	Join Facebook	site; Pigeon Vall MMS	•	https://www.facebook.com/ groups/1924082991035550/
6. Prepared by:				Date/Time 1900 7/2/19

2. Operational Period 1. Incident Name **SAFETY** Date 8&9/2/2019 **Pigeon Valley** Time 1900 - 0700

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).

PLAN

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)	 conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided for safety first. 	 Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or down wind of a fire Working on a steep slope Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working with aircraft 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.

5. Prepared By:	Date/Time 1900 7/2/19
51116pai.ca 5 y .	2416, 11116 2300 7, 2, 23

1. Incident Name		2. Operation	onal Pe	riod		ME	DICAL
Pigeon Valley		Date 8&9/2	2/2019				PLAN
		Time 1900	- 0700				RF206
3. First Aid Station Name	Loc	cation		one/Radio nannel	Paran available		ion
, ridine					avanasie	at Stati	.0
Each Crew must have available one First aid Level 1 Certified	Each cre	ew					7
Nelson 91 Ambulance	Forward commar		Wai	mea 1	1 Paramedic	and 1 E	MT
				C (
4. Transportation Ambulance Service	<i>Ad</i> :	dress		one/Radio nannel	Paran available wi		ulance
Ambulance St Johns	Closest	unit	111		Yes		
5. Hospitals		()			Travel Time	Burn	Heli
Hospital Name	Addres	s P	hone	Road	Air	Unit	Pad
Nolson Dublic	Waimea I	Rd. 111		27m	4min	У	У
Nelson Public Emergency	vvaimea i	111					
	vvaimea r	111		n/a	40min	Υ	У
Hutt Hospital (Burn Unit) 6. Special Emergency Proces	dures	111				Y	У
Hutt Hospital (Burn Unit) 6. Special Emergency Proced St John will transport patient	dures	111	ility is a			Y	У
Hutt Hospital (Burn Unit) 6. Special Emergency Proced St John will transport patient	dures	111	ility is a			Y	У

7. Prepared By:	Shift - M	Nanager Nelson	Date/Time 1900 7/2/19	
8. Reviewed by Safety	Advisor:		Date/Time 1900 7/2/19	

1. Incident Name	Date 8&9/2/2019	Weather
Pigeon Valley	Time 1900 - 0700	Forecast

11 am – 6 pm Friday

Rainfall: Nil.

Sustained wind: NE 10-15 km/h through to 6 pm.

Wind gusts: Gusts gradually increasing to around 35 km/h from near midday through to 6

pm.

Temperature: 17°C increasing to a maximum 20-21°C by early-to-mid-afternoon.

Humidity: Decreasing from near 60% early to 40-45% by early afternoon. Humidity then

increases to 70-75% by 6 pm.

6 pm Friday – 6 am Saturday

Rainfall: Slight chance for a shower near 6 am. Amounts, if any, 2 mm or less.

Sustained wind: E gradually turning SW by 9pm, 10 km/h or less.

Wind gusts: Gusts up to 25 km/h through to 9 pm, then 15 km/h or less thereafter.

Temperature: Decreasing to near 13°C early morning. **Humidity:** Increasing to near 95% after midnight.

Outlook for Saturday:

Chance of scattered rain showers around mid-day. Rainfall, if any, less than 2 mm.

Afternoon wind gusts up to 40 km/h possible.

Maximum temperature 22°C.

Outlook for Sunday:

Rainfall, if any, 1 mm or less.

Afternoon wind gusts up to 50 km/h possible.

Maximum temperature 23-24°C.

FIRE BEHAVIOUR FORECAST

Fire name: Pigeon Road				Predic	tion for:	0800-1	800 08	Feb-19	
Prepared	Prepared by:			Time a	Time and date issued: 1400 07 Feb 19				
Forecast no. 4			Day Sh	Day Shift					
Assumptions: Friday's f			forecast						
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
20	52	12	0	88	101	470	5.8	132	24

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

Fire Behaviour General:

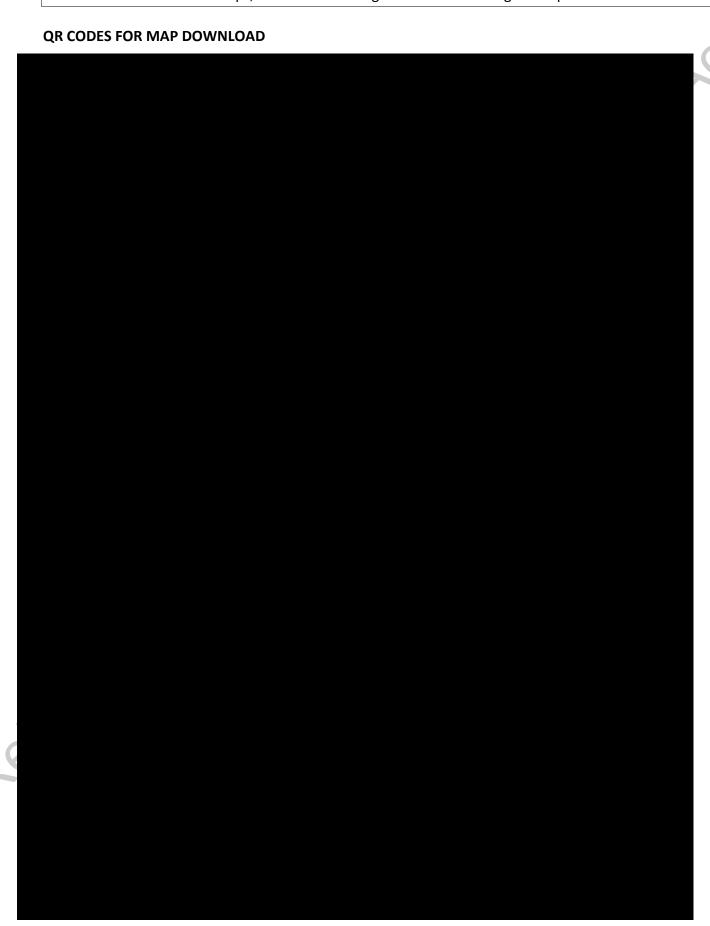
Expected fire beh	aviour – slope 0°	Forecast worst case – 28°C 45% I	RH slope 20° 1400-
		1800	20
Fuel type: Mature Pine – 5m pruned		Fuel type: Mature Pine – 5m pr	uned
Expect HF rate of spre	ead of 50 m/hr	Expect HF rate of spread of 200) m/hr
HF Intensity	800 kw/m	HF Intensity 21	00 kw/m
Flame lengths	1.5-2	Flame lengths 3	3 m
Fuel type: Scrub/gors	e 2m height	Fuel type: Scrub/ gorse 2m hei	ght
Expect HF rate of spre	ead of 1000 m/hr	Expect HF rate of spread of 300	00 m/hr
HF Intensity	10000 kw/m	HF Intensity >100	000 kw/m
Flame lengths	6 m	Flame lengths	13 m
Fuel type: Grass-80% GC, 100% cover, 0.1m height		Fuel type: Ungrazed Grass -70	% GC, 100% cover,
	70	0.2m height	
Expect HF rate of spre	ead of 200 m/hr	Expect HF rate of spread of 600) m/hr
HF Intensity	350 kw/m	HF Intensity 1	150 kW/m
Flame lengths	1.2 m	Flame lengths	2 m
	<u> </u>		
Safety Consideration	is:		
Head Fire intensity, and flank fire intensity		Head Fire intensity exceed thre	shold for direct
exceed threshold for direct attack in gorse/		attack in gorse and mature pine fuels, and flank	
scrub fuels.		fires in gorse. Flank fires intensity is now too	
		high for ground crews	
Summary timeline: I	Based on the Dovedale we	ather station and NIWA forecasti	ng, Friday is

If prediction time is before 1200 NZST, use yesterday's noon daily FWI values; if after 1200 NZST, use today's FWI values.

predicting to have NE winds stronger than Thursday.

[#] Fire Type = Surface fire (S), Intermittent (I) (i.e., torching), or continuous Crown fire (C)

1. Incident Name	2. Operational Period	MAPS	
Pigeon Valley	Date 8&9/2/2019		
	Time 1900 - 1900	RF	
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps			



Released under the Official Informat

1. Incident Name
2. Operational Period
3. Operational Period
4. Operational Period
5. Operational Period
6. Operational Period
7. Operational Period
8. Op

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 Thursday 7th February

PIM Manager –

PIM Manager 2IC
Media Manager
PIM Support –

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.

PIM meetings for 07/02/2019
10:30hrs – 1st Planning Meeting
13:00hrs – Tactics Meeting (sit-in only)
17:00hrs – 2nd Planning meeting & IAP Approval
Other informal meetings as required

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,	RCC Christchurch	and cc, and Media@fireandemergency.nz

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 th Feb. Next one potentially Sat 9 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	

	contact				
Direct message dist	ribution Detail	Details of the specific sites or types			
Websites	Nelso	Nelson Tasman Civil Defence -			
		http://www.nelsontasmancivildefence.co.nz/			
		nd Emergency N			
	www.	www.fireandemergency.nz			
Social media	Main	channel: Nelsor	n Tasman Civil Defence facebool	k page	
			Fire Area facebook page		
Helpline	Welfa	Welfare Helpline – 03 543 8400			
Information points	Cordo	Cordons (located as per map)			
Community contacts		Community Meeting tentatively scheduled for Saturday 9 th Feb at 0900hrs at Appleby Fire Station.		day 9 th	
Media message dist	ribution Specif	Specific stations or publications			
Radio	*See ı	media list			
0			e requested for interviews with		
TV	tiretig	nters for tomor	rrow night's show (8 th Feb)		
IV					
Newspapers					
Media	Sched	ule			

Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.
Media site visits	None scheduled currently.
Interviews	Checkpoint interviewing John at 10pm tonight (07/02/19)

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: Date: 7/2/19 1900hrs

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	Incident Name	Operational Peri	IAP	COVER SHEET RF199
	Pigeon Valley	Date 9/2/2019		KF133
		Time 0700 - 1900	0	
	IN	CIDENT AC	CTION PLAN	
	The items che	cked below are incl	uded in the incident Actio	on Plan
	SITUATION REP	ORT		
	∐INCIDENT OBJE	CTIVES		
	ORGANISATION	IAL LIST		
	SECTOR ASSIGN	IMENT		
	DIVISIONAL ASS	SIGNMENT		
	AIR OPERATION	IS PLAN		
	COMMUNICATI	ON PLAN		•
	SAFETY PLAN		. 0	
	MEDICAL PLAN			
	FIRE MAP			
	WEATHER FORE	ECAST AND I	MAP	
	FIRE BEHAVIOU	R FORECAS	T	
	OVERVIEW MA	PS AND DOV	NNLOAD QR CC	DES
	DUBLIC INFORM	X	_	
	Approved by Incident Cont	roller: Signed		Date/Time
	Name			2000 8/2/19
	0	12		
00/	30,50		FIRE	
	W		MERGENCY ZEALAND	



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 9/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2100ha as at 0700hrs on 8th Feb with a perimeter of 27km (may have a recalculated total area by 1900hrs).

Thursday afternoon we experienced a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire up. Fire spotting occurred in excess of 500m at times. Up until this morning the breakout has burnt approximately 415ha of heavy fuels (pine forest). The fire behaviour has been mainly internal burning today with some progression downslope. Perimeter growth for the day has not yet been calculated.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday night. The fire has backed up on several structures close to the forest boundary on the south east, but being protected by effective fire breaks which were established Thursday night.

Evacuations operations have commenced for the town of Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. Evacuation trigger points were established with a one hour notification for Pigeon Valley and three hour notification for Wakefield. We were unable to identify trigger points which provided the Police with adequate warning for effective evacuation. As a result it was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced this afternoon.

Evacuations are still in place for the following areas while operations are still active.

- Eves Valley,
- Golden Hills Rd,
- Redwood Valley Rd
- Tea Pot Valley
- Barton Lane

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. A telecommunications crew is working currently working around this asset to secure the asset.

A new fire has started at Atawhai Road, a short distance north of Nelson township, at approximately 1400hrs. Fireline overhead, helicopters and ground crew have been assigned to this new start. Resources deployed are 5x helicopters, 4x urban and one rural have arrived on site.

7. Action taken

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

- 22 helicopters, two fixed wings plane.
- 18 vegetation crews, and 8 structure crews (141 personnel)
- 15 heavy machines (excavators and dozers).
- 42 incident management staff.

Due to the nature of the current weather conditions, the terrain, and the vegetation composition (extreme dryness of the vegetation), helicopter resources are targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 85% of the boundary on sectors Zulu and Yankee.

Changes in fuel as the fire moves to pasture and to the contingency fire-breaking (on the northern end) will assist in suppressing this breakout. On the north western area, sector X-ray, machinery and feller bunchers are felling larger trees and shifting logs to enhance the fire break there in anticipation of the SE wind, which is forecasted again for tomorrow.

Fire observers in Wakefield and including one in helicopter are providing observation of areas which have potential for spotting in and around the Wakefield Township.

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

Yesterday 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.

We actioned one Drone Team available for overnight surveillance, and the USAR Drone Team is arriving tomorrow.

We have requested from R4 RCC additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has been dispatched to the Atawhai Road fire.

8. Factors,

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation. Forecasted winds have been in place since 1100hrs of NE 20km, gusting to 35km/hr. The wind strength and smoke is proving challenging for aerial operations.

The forecasted increase to Relative Humidity has occurred and should benefit the firefighting operations as the day progresses.

9. Predicted Incident Development

eleasedunderine

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

Weather conditions over the next two days involves strengthening northerlies with predictions of wind gusts of up to N/NE 55km/hr predicted on Sunday.

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.

10. Prepared by:		Date/Time:
Authorised by	(Incident Controller)	1900 8 th Feb 2019

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 9/2/2019	OBJECTIVES
	Time 0700 - 1900	RF202

3. Overall Incident Objectives

- 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

- 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.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

Specific operational tasks for this shift to meet objectives

- 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 including Drones Road.
- Continue to patrol and mop up
- Establish an 'initial attack capability' for the incident.

5. Prepared by:	Date/Time: 1900 8/2/19
-----------------	------------------------

	1. Incident Name	2. Operational Period		ORGANISATION
		Date 9/2/2019		ASSIGNMENT
		Time 0700 - 1900		RF203
	3. Incident Control	·	Phone	Radio Ch
	Incident Controller	(NIMT)		
	Deputy IC	(NMIT)		
	Information Officer			
	Safety Officer	(NMIT)		
	Liaison Officer			
	4. Agency Representative		Phone	Radio Ch
	Lead Agency	FENZ		
	Agency	Police		>
	Agency			
	Agency	CDEM		
	Agency	CDEM Duty Phone		
	Agency	FENZ Urban Liason		
	5. Planning/Intell Section		Phone	Radio Ch
	Planning/Intell Manager			
	Situations Unit			
		(FBAN)		
		(Observer)		
	76			
	,70.	(Intel)		
		(GIS)		
		(GIS)		
		(Observer)		
	25	(Observer)		
	Resources Unit			
20		(EoC)		
		(Caravan		
		Check in)		
	Management Support Unit			
	Information Unit	:		

Advance Planning Unit			
Fire investigation			
		Dhara	D - di - Ch
6. Logistics Section		Phone	Radio Ch
Logistics Manager	(NMIT)		
	(Day)		
	(Night)		
Supply Unit			
Catering Unit			
Facilities Unit			
Finance Unit			
Communications Unit			
Medical Unit			
7. Operations Section		Phone	Radio Ch
Operations Manager			
Deputy Operations Manager			
Division Alpha			
Division Xray			
Division Yankee			
Division Zulu			
Division Atawhai			
Air Division Commander			
Air Attack Supervisor			
CO.			
60			
Air Support Supervisor			
	-		
8. Prepared by:		Date/Time: 190	0 0/2/10

1. Incident Name Pigeon Valley	Date 9	2. Operational Period Date 9/2/2019 Time 0700 - 1900			DIVISION SSIGNMENT RF204a	
3. Division Alpha			c ription of ignition to D	ove Saddle o	on Eder	
5. Division Commander	Affiliation	'	Phone		Radio	Ch
						nand: Fire Simplex
6. Resources Assigned this Po Sector	eriod	Super	visor	Crews	5	Radio Ch
Bulldozer D7	TLC					
Excavator 20 T	TLC					
Tasman Smoke Chaser + 3 PX	(60		
Hira Smoke Chaser + 3 PX			•			
Hira 5575 + 4 PX						
DOC Motueka +3 PX			. (2)			
DOC Takaka + 8 PX						
DOC Nelson Lakes + 4 PX		c\$				
DOC South Marlborough + 4	PX					
JNL + 4 PX		U				
A1 Dozer to widen the break Smoke chaser and crews possible and safe. A2 Feller buncher to continue Helicopters to support groun request	blacking ou	it to 30 m	es along the I	East side of (Cut Hill	Rd.
8. Division Communications				Phone	•	Radio Ch
Operations Manager						Fire 1/Cellphone
Air Division Commander						Fire 4/Cellphone

	1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900			A	DIVISION SSIGNMENT RF204a	
·	3. Division			4. Des	ription			
	Xray			Divisio	n from Cut h	ill/Eder Rd to	CHH sa	aw mill
	5. Division Commander	Affiliatio	n	Phone			Radio Ch	
							Fire 5	5
	6. Resources Assigned this Po Sector	eriod		Super	visor	Crews	s	Radio Ch
	D155 Dozer							
	Nicholson Tanker	13,	00	0 I			0	O'
	Excavators X2							
	Appleby Tanker					(0)		
	Smoke Chaser Wainui 3px							
	NZDF RFA x7px				•			
	Invercargill Crew + 5 PX							
	AFM – 4px				10			
	Otago Crew + 5 PX			_(:\U`			
	Hurunui Crew + 4 PX							
	X1 Mop up with ground crev X2 Check and enhance perin X3 Monitor only, no operation Helicopters to support groun VHF 4 with requirements	neter arou	ed	l structu at this s	res. Ground tage.	crews to mop	o up an	nd patrol.
	8. Division Communications					Phone	<u> </u>	Radio Ch
20	Operations Manager		ı					Fire 1/Cellphone
	Air Division Commander							Fire 4/Cellphone
	10. Prepared By:					Date/Time	1900	8/2/19

	1. Incident Name Pigeon Valley			Date 9	rational Perio /2/2019 1700 - 1900	od	DIVISIO ASSIGNME		
	3. Division			4. Des	cription				
	Yankee			Benne	ts Road to CHI	H saw mill at	Eves V	/alley	
	5. Division Commander	Affilia	tion		Phone		Radio	o Ch	
		Wakef	field V	FB			Fire 3		
	6. Resources Assigned this P Sector 2x Excavator 20T	ı	Taylor	Super	visor	Crews	s	Radio Ch	
	Bulldozer D8	1	Taylor	'S					
	Brightwater 5026 + 3px							<i>y</i> ************************************	
	Rural Tanker Downers + 1px	(- (
	Brightwater 5011 + 3px					60			
	Stoke 221 + 5px								
	Richmond 331 + 4px								
	Ngatimoti + 4px				+ (2)				
	Wellington 2 + 5 PX								
	West Coast 2 + 5 PX And Sm	oke							
	Chaser and Tanker Y1 Monitor existing fire bre								
	Y2 Clear defensible space an Protect Mill and surround			_	ll with machir	nery			
00)	8. Division Communications					Phone	;	Radio Ch	
	Operations Manager							Fire 1/Cellphone	
	Air Division Commander							Fire 4/Cellphone	
	11. Prepared By:					Date/Time	1900	8/2/19	

1. Incident Name Pigeon Valley		Date 9	rational Perio /2/2019 1700 - 1900	d	A	DIVISION SSIGNMENT RF204a
3. Division		4. Des	cription		•	
Zulu		Divisio	n from Cut hil	l/Eder Rd to	CHH sa	aw mill
5. Division Commander	Affiliation	,	Phone		Radio	o Ch
					Fire 2	
6. Resources Assigned this P	eriod					
Sector		Super	visor	Crew	s	Radio Ch
4x Excavator 20T	TLC					
D65 Dozer						0
Watertanker				4		
Tree and Forestry + 4px				40		
South Canterbury 10px						
Lake Rotoiti + 4 PX						
Upper Moutere 321 + 5 PX						
Wellington 1 + 5 PX			•. (7)			
Z2 Link containment line from Protection of dairy farm Ground crews continue to Protection of structures ground crews mopping uother to support ground VHF 4 with requirements	and structu o mop up. near top of p. nd operatio	res Eder Rd b	y extending d			
69711						
8. Division Communications				Phone	•	Radio Ch
8. Division Communications Operations Manager				Phone	·	I .
				Phone	; =	Radio Ch Fire 1/Cellphone Fire 4/Cellphone

1. Incident Name			2. Ope	rational Perio	DIVISION		
Pigeon Valley			Date 9/2/2019			A C (
				700 - 1900		ASS	SIGNMENT RF204a
3. Division		4. Description				111 2044	
Property Assessments			Function	onal division a	across Pigeon	Valley Ir	ıcident
5. Division Commander	Affilia	tion		Phone		Radio C	h
6. Resources Assigned this	Period			1			
Sector			Super	visor	Crews		Radio Ch
		FENZ I	Liaison			7,0	
						0.	
					(0)		
7. Division Assignment/Spo	ecial Inst	ructio	ns			<u> </u>	
 The property asses 			• .				•
responders and res		_				_	
will be completed	-		-				
assessments will in						_	
and built structure	s. These	will be	e review	ed in relation	to incident s	tatues ar	nd predicted

- 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		Fire 1/Cellphone
Air Division Commander		Fire 4/Cellphone
13. Prepared By:	Date/Time 1900	8/2/19

1. Incident Name Pigeon Valley		2. Operational Per Date 9/2/2019 Time 0700 - 1900			
3. Division Rabbit Island	4. Description Rabbit Island				
5. Division Commander	Affiliation	Phone		Radio Ch	
				Fire 3	
6. Resources Assigned this F Sector	Period	Supervisor	Crews	Rac	lio Ch
			40		_
Forest owner to inspect site evening.	tomorrow. P	lanned thermal dron	e flight schedul	led for tomorro	DW
evening.		lanned thermal dron			
evening. 8. Division Communications		lanned thermal dron	e flight schedul	Rad	io Ch
8. Division Communications Operations Manager		lanned thermal dron		<i>Rad</i> . ■ Fire 1/0	<i>io Ch</i> Cellphor
evening. 8. Division Communications		lanned thermal dron	Phone	Rad	<i>io Ch</i> Cellphoi

1. Incident Name Pigeon Valley	2. Operational Pe Date 9/2/2019 Time 0700 - 1900	riod	DIVISION ASSIGNMENT		
3. Division	4. Description		20.12		
Atawhai					
5. Division Commander	Affiliation	Phone		Radio Ch	
	FENZ				
6. Resources Assigned this P Sector	eriod	Supervisor	Crews	Radio Ch	
			100		
7. Division Assignment/Spec)		
Ground crews hot spotting a	and blacken	ing.			
8. Division Communications			Phone	Radio Ch	
Operations Manager					
15. Prepared By:			Date/Time	1900 8/2/2019	

	1. Incident Name	e 2. O	perational P	eriod		AIR OPE	RATIONS PLAN
	Pigeon Valley	Date	9/2/2019				RF208
	geon rame,		e 0700 - 190	Λ			
	3. Personnel and Co			U			
	Position	illina ilication	Name		Affiliation	n Phone	Radio Chan
	Air Div Comma	ander				l	
	Air Attack Supe	rvisor					Fire 4
		_					
	Air Support Supe	rvisor					.0
							X
	Lead Helicopte	r Pilot					
	-						0
	Lead Fixed-Wing	·					
	4. Air Resource Assi				T	News	T-1 1
	Pilot Name/	Aircraft	Reg or	Assign-	Tactical	Name	Telephone Numbers
	Company Becks	Type UH-1	Call sign HHF	ment	Freq/Chan Fire 4		Numbers
	Becks	UH-1	HHB		Fire 4		
	Helicharter	500D	НХХ		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	HJI	2.	Fire 4		
	Marlborough Heli	Long Ranger	НТА		Fire 4		
	Skyworks	B3	HWW		Fire 4		
	Amuri Heli	FX2	HJM		Fire 4		
	Anderson	B2	НКА		Fire 4		
i	Independent Heli	EC130	IWS		Fire 4		
	Christchurch Heli	B2	HNC		Fire 4		
		0					
	Wanaka Heli	B2	HFF		Fire 4		
	Mt Hutt Heli	BA	HYS		Fire 4		
	Heliventures	B2	IER		Fire 4		
	Murchison Heli	BA	ILW		Fire 4		
0		Cresco			Fire 4		
		Airtractor	DINIECA		Fire 4		
	Interpine	RPAS / UAV	PINES1		Fire 4		
	5. Location of Filling		Co Areas	<u> </u>			
		Name	LE MIEAS			Grid Reference	
	Heli base	IVAIIIE		_//1 217	77 127 10007		
					77, 137.10987		
	Fixed wing			41 22 39.	9 S 173 05 04.0	b E	



	1. Incident Name		2	. Operational	Period	COI	COMMUNICATIONS	
	Pigeon Valley	-			00		PLAN RF205	
	3. Radio Channels						111 205	
	Assigned To	Function		Channel	Frequency		System	
	Command			Waimea 1	152.55000 RX	(
					154.33125 TX			
	Division Alpha	Operationa	I	Fire 1	143.825	00		
	Division Zulu	Operationa	I	Fire 2	143.787	50		
	Division Yankee	Operationa	I	Fire 3	140.925	00	0	
	Division Xray	Operationa	I	Fire 1	143.825	00		
	Air Ops -Heli	Operationa	I	Fire 4	140.612	50	0	
	Air Ops – Fixed Wing	Operationa	I	Fire 10	140.987	50		
	Emergency			Waimea 1	152.55000 RX 154.33125 TX			
	Resources			Waimea 1	152.55000 RX 154.33125 TX	(
	FireCom			FireCom	(0)			
	2 Hourly - Sitrep			OPSR2	Use mobile if o	lifficult c	oms to FCP	
	4. Telephone							
	Assigned To	Landline		Cell phone	Fax		Comments	
	Emergency			111				
	Regional Command Centre (RCC)		K)				
	6. Other (e.g. email, Sat		•		l			
	Resources	resources@F	ENZI	NelsonIMT.com	1			
	Safety	safety@FENZ	ZNels	onIMT.com				
	Logistics	logistics@FE	NZNe	elsonIMT.com				
	PIM	pim@FENZN	elsor	nIMT.com				
	Planning	planning@FE	NZN	elsonIMT.com				
	Forward Control Point (icu.nelson@f	fireeı	mergency.nz				
	Situation / GIS / Intel	situation@Fl	ENZN	lelsonIMT.com				
	Operations	operations@	FENZ	ZNelsonIMT.co	<u>m</u>			
50	Photos and imagery	Join Faceboo		e; Pigeon Vall 1S			vww.facebook.com/ .924082991035550/	
~	6. Prepared by:					Date/Tir	ne 1900 8/2/19	
	1. Incident Name			2. Operation	nal Period			
				Date 9/2/20	119			

Pigeon Valley	Time 0700 - 1900	SAFETY
		PLAN
		RF209

3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (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)	 conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided for safety first. 	 Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or down wind of a fire Working on a steep slope Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working with aircraft 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.

5. Prepared By:	Date/Time 1900 8/2/19
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1. Incident Name		2. Operational Period				MEDICAL		
Pigeon Valley		ate 8/2/20	19			PLAN		
	Ti	me 0700-1	.900				RF206	
3. First Aid Station				ne/Radio	Paran			
Name	Location		Channel		available at Station			
Each Crew must have	Each crew							
available one First aid Level 1 Certified								
Nelson 91 Ambulance	Forward			nea 1	1 Paramedic and 1 EMT			
	Command	command post						
				<u> </u>	<u>)</u>			
4. Transportation	Addre	ess	Phor	ne/Radio	Paran	nedics		
Ambulance Service	Address		Channel		available with Ambulance			
Ambulance St Johns	Closest unit		111		Yes			
			<u> </u>					
	(<u> </u>						
5. Hospitals	Q,				<u>Travel Time</u>	Burn	Heli	
Hospital Name	Address	Ph	one	Road	Air	Unit	Pad	
Nelson Public Emergency	Waimea Rd.	111		27m	4min	У	У	
Hutt Hospital (Burn Unit)		111		n/a	40min	Y	У	
0								
6. Special Emergency Procedure St John will transport patients to		ealth facil	ty is ap	propriate				

Date/Time 1900 8/2/19

8. Reviewed by Safety Advisor:

1. Incident Name Pigeon Valley 3. Operational Period Date 9/2/2019 Time 0700 - 1900 Weather Forecast

4 pm Friday – 6 am Saturday

Rainfall: Slight chance for a shower. Amounts, if any, 1 mm or less.

Sustained wind: Currently NE, turning more E by 6pm and then gradually turning SW by

9pm, 10 km/h or less.

Wind gusts: Gusts up to 35 km/h through to 8 pm, then 15 km/h or less thereafter.

Temperature: Currently 19 °C, decreasing to near 13 °C early morning.

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

6 am – 6 pm Saturday

Rainfall: Light showers possible throughout forecast period. Total rainfall expected to be 2mm or less.

Sustained wind: Light and variable, less than 10 km/h. W-SW in the morning becoming E-NE by 1pm through to 6pm.

Wind gusts: Gusts around 10 km/h at 6am gradually increasing to up to 30 km/h by 6pm. Less wind than on Friday overall.

Temperature: A maximum of 20-21°C by early-to-mid-afternoon.

Humidity: 90% decreasing to 70% by 6pm.

Outlook for Sunday:

Rainfall, if any, 1 mm or less. Afternoon wind gusts up to 40 km/h possible. Maximum temperature 22-23°C.

Outlook for Monday:

Afternoon showers possible
Afternoon wind gusts up to 40 km/h possible.
Maximum temperature 23-24°C.

FIRE BEHAVIOUR FORECAST

Fire name: Pigeon Road			Prediction for: 0800-1800 09 Feb-19						
Prepared by:			Time a	Time and date issued: 1300 8th Feb 19					
Forecast no. 4			Day Sh	Day Shift					
Assumpt	ions: Do	vedale weather	r station	Saturday	's forecasi	t			
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
22	68	10	0	86	102	477	4.2	133	19

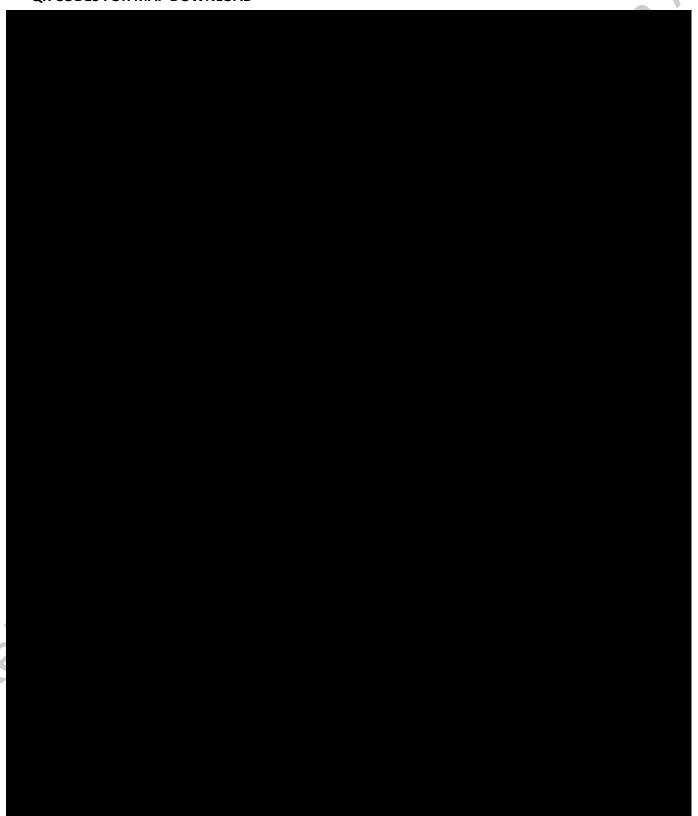
Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

Fire Behaviour General:

Expected fire behaviou	r – slope 0°	Forecast worst case – 28°C	45%RH slope 20°	
(expected fire front)	•	1400-1800		
Fuel type: Forest/Scrub/gors	se mix	Fuel type: Forest/Scrub/ go	orse mix	
Expect HF rate of spread of	1000 m/hr	Expect HF rate of spread o	f 3000 m/hr	
HF Intensity 1	10000 kw/m	HF Intensity	>10000 kw/m	
Flame lengths	6 m	Flame lengths	13 m	
Fuel type: Grass-80% GC, 100	0% cover, 0.1m height	Fuel type: Ungrazed Grass	s -70% GC, 100% cover,	
		0.2m height		
Expect HF rate of spread of	200 m/hr	Expect HF rate of spread o	f 600 m/hr	
HF Intensity	380 kw/m	HF Intensity	1150 kW/m	
Flame lengths	1.3 m	Flame lengths	2 m	
	0,			
Safety Considerations:				
Head Fire intensity, and flanl	k fire intensity	Head Fire intensity exceed	threshold for direct	
exceed threshold for direct at	tack in forest/	attack in gorse and mature pine fuels, and flank		
gorse/ scrub fuels.		fires in gorse. Flank fires intensity is now too		
		high for ground crews		
Based on the Dovedale weath	ner station and NIW	A forecasting.		

1. Incident Name	2. Operational Period	MAPS			
Pigeon Valley	Date 9/2/2019	RF			
	Time 0700-1900	KF			
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps					

QR CODES FOR MAP DOWNLOAD



Released under the Official Infloring

1. Incident Name	2. Operational Period	
Pigeon Valley Fire, Nelson	09/02/2019 – 0700 to 1900	

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 Thursday 7th February

PIM Manager –

PIM Manager 2IC
Media Manager
PIM Support –

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.

PIM meetings for 07/02/2019
10:30hrs – 1st Planning Meeting
13:00hrs – Tactics Meeting (sit-in only)
17:00hrs – 2nd Planning meeting & IAP Approval
Other informal meetings as required

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,	RCC Christchurch	and cc, and Media@fireandemergency.nz

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 th Feb. Next one potentially Sat 9 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 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 Uselfare Helpline – 03 543 8400 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 Radio *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) TV Newspapers	c	ontact					
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 9th Feb at 0900hrs at Appleby Fire Station. Media message distribution Specific stations or publications *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8th Feb) TV Newspapers							
http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz 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 Radio Specific stations or publications *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) TV	Direct message distril	oution Detail	Details of the specific sites or types				
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 Radio Specific stations or publications *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) TV Newspapers	Websites	http:/	http://www.nelsontasmancivildefence.co.nz/				
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 *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) TV Newspapers							
Information points Community contacts/meetings Community Meeting tentatively scheduled for Saturday 9 th Feb at 0900hrs at Appleby Fire Station. Media message distribution Radio *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) TV Newspapers	Social media		. 5				
Community contacts/meetings Community Meeting tentatively scheduled for Saturday 9 th Feb at 0900hrs at Appleby Fire Station. Specific stations or publications *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) TV Newspapers	Helpline	Welfa	Welfare Helpline – 03 543 8400				
Media message distribution Radio *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) TV Newspapers	Information points	Cordo	Cordons (located as per map)				
*See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) Newspapers *See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb)	Community contacts/						
The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th Feb) Newspapers	Media message distri	bution Specif	fic stations or p	ublications			
Newspapers	Radio	The P	roject (TV) have	-	with		
	TV						
Media Schedule	Newspapers						
	Media	Sched	ule				

Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.
Media site visits	None scheduled currently.
Interviews	Checkpoint interviewing John at 10pm tonight (07/02/19)

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: Date: 8/2/19 1900hrs

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Incide	ent Name	Operation	al Period	IAP	COVER SHEET				
Pigeor	n Valley	Date 9&10	/2/2019		RF199				
		Time 1900	- 0700						
	INCIDENT ACTION PLAN								
	The items che	cked below a	re included in the i	ncident Actio	on Plan				
	ITUATION REP								
_	NCIDENT OBJE	CTIVES (@1400						
<u></u>	RGANISATION	IAL LIST							
□s	ECTOR ASSIGN	IMENT							
	IVISIONAL ASS	SIGNME	NT						
	OMMUNICAT	ION PLA	N						
	AFETY PLAN								
I	MEDICAL PLAN								
	IRE MAP		Ċ	10.					
	VEATHER FORI	FCAST A	ND MAP	,					
	IRE BEHAVIOU								
	VERVIEW MA			D OR CC	DES				
	UBLIC INFORM			D QIT CO	,DES				
	ODLIC INI OINI	ALION	X WILDIA						
Appro	ved by Incident Cont	roller: Sig	ned		Date/Time				
Name					1900 9/2/19				
20/00		HAKARATONGA IWI	FIR EMERGEN NEW ZEALAND						



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 9/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

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.

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.

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.

Current resources working on the vegetation fire (day 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.

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 helicopteral 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:		Date/Time:	7.0
Authorised by	(Incident Controller)	1500 9 th Feb 2019	

eleased under the

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 9&10/2/2019	OBJECTIVES
	Time 1900 - 0700	RF202

3. Overall Incident Objectives

- 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

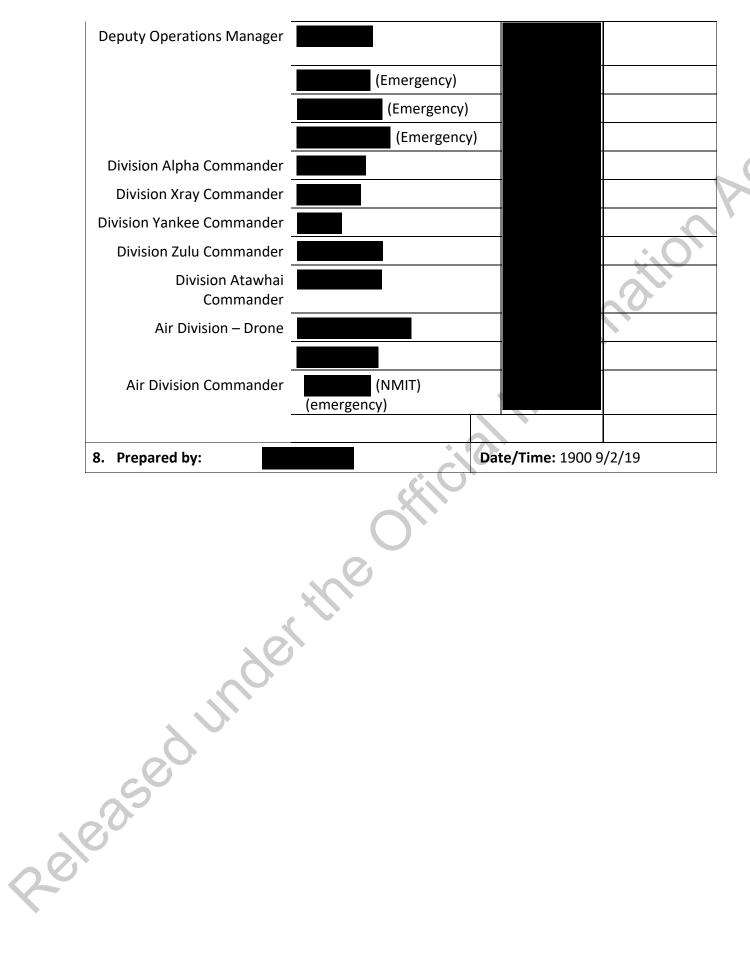
- 1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.
- 2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and 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.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

5. Specific operational tasks for this shift to meet objectives

- 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
- 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.
- Drone hotspot and perimeter surveys.

5.	Prepared by:	Date/Time: 1600 9/2/19

	1. Incident Name	2. Operational Period		ORGANISATION
		Date 9&10/2/2019		ASSIGNMENT
		Time 1900 - 0700		RF203
	3. Incident Control		Phone	Radio Ch
	Incident Controller			
		(NIMT) (Emergency)	4
	Deputy IC	(Emergency)		
	Information Officer			
	Safety Officer			110
		(NMIT) (Emergency)		
	Liaison Officer			
			X	0,
	4. Agency Representative	Emergency contacts	Pho	one Radio Ch
	Lead Agency	FENZ		
	Agency	Police		
	Agency			
	Agency	CDEM		
	Agency	CDEM Duty Phone		
	Agency	FENZ Urban Liason		
	5. Planning/Intell Section	- Emergency contacts	P	hone Radio Ch
	Planning/Intell Manager			
	Situations Unit			
	Resources Unit			
	6. Logistics Section	- Emergency contacts	Phone	Radio Ch
	Logistics Manager	(NMIT)		
	7. Operations Section		Phone	Radio Ch
	Operations Manage	r		
	O C			
00				
4				



1. Incident Name Pigeon Valley		2. Operational Per Date 9&10/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT RF204a		
3. Division		4. Description				
Alpha		Point of ignition to	Dove Saddle	on Eder Rd		
5. Division Commander	Affiliation	Phone		Radio Ch		
	,,,					
6. Resources Assigned this F Sector	Period	Supervisor	Crews	s Radio Ch		
D65 Dozer						
D7 Dozer						
210 Excavator			•			
772-4 Grader			40			
850-2 Dozer						
NFM 8px Crew						
		. 0				
Rds with break. - Continue to widen Eder Rd - Keep remaining machinery - Crews blanking out to 30m • A1 Patrol to ford bou • A2 – x2 patrol either Alpha 1 - Div break to Ford on Share	staged for im in 10m incre indary and ev way on Sharps Rd	nmediate response - i ments aluates ridge, to liais	Sharp Valley e with A2.			
Alpha 2 – From ford on Shar 8. Division Communications		ii DA SHOSHIIOT II	Phone			
Operations Manager						
9. Prepared By:			Date/Time	1900 9/2/19		

	1. Incident Name Pigeon Valley		2. Operational Per Date 9&10/2/201 Time 1900 - 0700	9	DIVISION ASSIGNMENT RF204a			
	3. Division		4. Description Division from Cut hill Johnsons Rd to CHH saw mill					
	Xray							
	5. Division Commander Affiliati		Phone		Radio Ch			
	6. Resources Assigned this Sector	s Period	Supervisor	Crew	s Radio Ch			
	Packer Crew							
	AFM Crew				20.			
	Appleby Crew							
	Brightwater Tank 5075+ C	rew		(0)				
	Upper Takaka CAF + Crew							
	RT 210B Excavator							
	RT 210A Excavator							
	RD JD850 Dozer							
	Higgins Tanker		,¢,0					
	 7. Division Assignment/S X1 Mop up and pate X2 Patrol and prote X3 Monitor Area Xray 1 – Cuthill/Johnsons Xray 2 - 5423000/160300 Xray 3 - Redwood Valley 	ct structures Red intersection to intersection	cribed burn n (new Div break) to n of Redwood Valle	y Rd and Red S				
60,	8. Division Communication Operations Manager	ons		Phone	Radio Ch			
	10. Prepared By:			Date/Time	<u> </u>			

1. Incident Name Pigeon Valley		2. Operational Per Date 9&10/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT RF204a		
3. Division		4. Description				
Yankee		Bennets Road to C	HH saw mill at	Eves Valley		
5. Division Commander	Affiliation	Phone		Radio Ch		
6. Resources Assigned this Pe Sector	eriod 	Supervisor	Crews	Radio Ch		
Wainui 541						
Upper Takaka + 7px						
210 Excavator			•			
240 Excavator			60			
336 Excavator						
D8 Dozer						
• Y2 Tree felling machiner Patrols to protect mil Yankee 1 – South edge of mill Yankee 2 – Xray div break to	ll and surrour	c at Zulu	II.			
8. Division Communications			Phone	Radio Ch		
Operations Manager						
1						

1. Incident Name Pigeon Valley		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700			DIVISION ASSIGNMENT		
3. Division		4. Description					
Zulu		Point o					
5. Division Commander	Affiliation		Phone		Radio Ch		
6. Resources Assigned this P	eriod			•			
Sector	1	Supe	ervisor	Crew	s Radio Ch	7	
AFM Crew 4px							
Bears Smoke Chase							
Maraharu VRRF smoke Chase	er						
Bears Tanker					, i		
Puklowski Tanker				&O			
Brightwater 5071 – Rural Ap	pliance						
Takaka 391 Urban appliance							
Wainui Urban appliance			.0				
D8 Dozer							
155-6 Dozer							
21T Excavator							
26T Excavator							
	(2)					
	*//						
7. Division Assignment/Spec Fire break from Bradely's gar area of Golf Rd. • Z1: Rural patrol along P Structural protection • Z2 Structure protection Zulu 1 – Alpha div break to Bart Zulu 2 – Barton lane to Yankee	te up ridge to igeon valley a n in pigeon va n in Teapot Va ton Lane	o Golf Rd nd Wai-iti lley.	streams	ns Lane and o	down ridge to sealed		
8. Division Communications Operations Manager				Phone	Radio Ch	1	
12. Prepared By:				Date/Time	 ≥ 1900 9/2/19		

	1. Incident Name Pigeon Valley		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700			DIVISION ASSIGNMENT		
	3. Division		4. Desc	ription		111 2048		
	Atawhai							
	5. Division Commander Affilia			Phone		Radio Ch		
	6. Resources Assigned this Sector	Period	Super	visor	Crews	Radio Ch		
	Night Nitch all Cav							
	Mitchell 6px							
	Nelmac 4px Tasman Smoke Chaser				(O)	>		
	Hira Smoke Chaser							
	nira Smoke Chaser							
				. 0				
	7. Division Assignment/Sponderew to continue to Deeper seated spots need to Deeper sea	o mop out and to be dug out.		out.	Phone	Radio Ch		
	Operations Manager							
20	_							
	13. Prepared By:		·		Date/Time	1900 9/2/19		

1. Incident Name		Operational	Period			AIR OPI	ERATIONS PLA
Pigeon Valley	Da	te 9&10/2/2	019				RF20
		ne 1900 - 07	00				
3. Personnel and Position		ons Name		Affiliatio	on	Phone	Radio Chan
Air Div Con	nmander	(Em	ergency)				
Air Division -	- Drone						
							1.0
4. Air Resource A	Assignments						X
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name	~	Telephone Numbers
, , ,	71						>
Interpine	RPAS / UAV	PINES1		Fire 4	-		
Interpine	RPAS / UAV	PINES2		Fire 4			
Usar	RPAS / UAV	PINES2		Fire 4			
5. Location of Fil	ling Points/Ser	vice Areas)		
	Name		1	~(C)	Grid Re	ference	
Heli base		-41.31777, 137.10987					
Fixed wing			41 22 39.9 \$ 173 05 04.6 E ge Limitations				
7. Air Operations Drone operations			Zulu and Y	ankee for fire I	movement	with infrared	

1. Incident Name		2. Operational	Period	COMMUNICATIONS		
Pigeon Valley		Date 9&10/2/2 Time 1900 - 07		PLAI RF20		
3. Radio Channels						
Assigned To	Function	Channel	Frequency	System		
Command		Waimea 1	152.55000 RX			
Division Alpha	Onematical	Fine 4	154.33125 TX	0		
Division Alpha	Operational	Fire 1	143.8250			
Division Zulu	Operational	Fire 2	143.7875			
Division Yankie	Operational	Fire 3	140.9250	0		
Division Xray	Operational	Fire 1	143.8250	0		
Division Bravo	Operational	Fire 2	143.7875	0		
Air Ops -Heli	Operational	Fire 4	140.6125	0		
Air Ops – Fixed Wing	Operational	Fire 10	140.9875	0		
Emergency		Waimea 1	152.55000 RX			
			154.33125 TX			
Resources		Waimea 1	152.55000 RX 154.33125 TX			
FireCom		FireCom	O,			
2 Hourly - Sitrep		OPSR2	Use mobile if di	fficult coms to FCP		
4. Telephone	<u>I</u>	()	l			
Assigned To	Landline	Cell phone	Fax	Comments		
Emergency		111				
Regional Command Centre (RCC)	* * * * * * * * * * * * * * * * * * *					
6. Other (e.g. email, Sa	tphone, etc)		<u> </u>			
6. Other (e.g. email, Sa Resources		NZNelsonIMT.com	1			
			1			
Resources	resources@FENZN		1			
Resources Safety	resources@FENZN	elsonIMT.com NelsonIMT.com				
Resources Safety Logistics	resources@FENZN safety@FENZN logistics@FENZ pim@FENZNels	elsonIMT.com NelsonIMT.com				
Resources Safety Logistics PIM	resources@FENZN safety@FENZN logistics@FENZ pim@FENZNels	elsonIMT.com ZNelsonIMT.com sonIMT.com ZNelsonIMT.com				
Resources Safety Logistics PIM Planning Forward Control Point (resources@FENZN safety@FENZN logistics@FENZ pim@FENZNels planning@FENZ icu.nelson@fire	elsonIMT.com ZNelsonIMT.com sonIMT.com ZNelsonIMT.com				
Resources Safety Logistics PIM Planning Forward Control Point (FCP)	resources@FENZN safety@FENZN logistics@FENZ pim@FENZNels planning@FENI icu.nelson@fire	elsonIMT.com ZNelsonIMT.com sonIMT.com ZNelsonIMT.com eemergency.nz				
Resources Safety Logistics PIM Planning Forward Control Point (FCP) Situation / GIS / Intel	resources@FENZN safety@FENZN logistics@FENZ pim@FENZNels planning@FENZ icu.nelson@fire situation@FEN operations@FE	elsonIMT.com ZNelsonIMT.com SonIMT.com ZNelsonIMT.com eemergency.nz ZNelsonIMT.com ENZNelsonIMT.com Site; Pigeon Vall	m ey Fire - h	ttps://www.facebook.com		

1. Incident Name	2. Operational Period	SAFETY PLAN
Pigeon Valley	Date 9&10/2/2019	RF209
	Time 1900 - 0700	M 203

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).

LACES	Fire Orders	Watchouts
L - Lookout(s) A - Awareness	 conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided for safety first. 	 Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing f behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or down wind of a fire Working on a steep slope Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working mear machinery Working with aircraft 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 preidentified 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 9/2/19

1. Incident Name	2	2. Operation	nal Perio	d		MFI	DICAL	
Pigeon Valley		Date 9&10/2	2/2019					
,	٦	Гіте 1900 -	0700				PLAN RF206	
3. First Aid Station Name Loc				e/Radio nnel		Paramedics available at Station		
Each Crew must have available one First aid Level 1 Certified	Each crew	/					P	
Nelson 91 Ambulance	Forward command	l post	Waime	ea 1	1 Paramedic and 1 EMT			
					0			
4. Transportation Ambulance Service	Addi	ress	Phone Char	e/Radio nnel	Paran available wit		ulance	
Ambulance St Johns	Closest ur	nit •	111	,	Yes			
5. Hospitals					<u>Travel Time</u>	Burn	Heli	
Hospital Name	Address	Ph	one	Road	Air	Unit	Pad	
Nelson Public Emergency	Waimea Ro	l. 111		27m	4min	У	У	
Hutt Hospital (Burn		111		n/a	40min	Υ	У	
Unit)						i i		

St John will transport patients to whichever health facility is appropriate

7. Prepared By:	Shift - M	lanager Nelson	Date/Time 1900 9/2/19
8. Reviewed by Safety	Advisor:		Date/Time 1900 9/2/19

1. Incident Name	2. Operational Period	SHORT RANGE
Pigeon Valley	Date 9&10/2/2019	FORECAST
	Time 1900 - 0700	
3. Download Avenza P	DE Mans Scan the Following Codes to	Access Digital Mans

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

Note that there has been an update to the forecast maximum wind gusts in the area tomorrow from 40 km/h in previous forecasts to 45 km/h. Overall winds are expected to be slightly higher than they have been today but from a similar direction.

1. Incident Name	2. Operational Period	FIRE BEHAVIOUR
Pigeon Valley	Date 9&10/2/2019	FORECAST
	Time 1900 - 0700	
2 Download Avonza BDE	Mans Scan the Following Co	dos to Accoss Digital Mans

3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps

FIRE BEHAVIOUR FORECAST

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

Assumpt	Assumptions: Dovedale weather station								
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 (expected fire front)	r – slope 0°	Forecast worst case – 28°C 45%RH slope 20° 1400-1800			
	Fuel type: Forest/Scrub/gors	e mix	Fuel type: Forest/Scrub/ gorse mix			
	Expect HF rate of spread of	185 m/hr	Expect HF rate of spread of 600 m/hr			
	HF Intensity 2	939 kw/m	HF Intensity	>8900 kw/m		
	Flame lengths	3.1 m	Flame lengths	5 m		
	Fuel type: Grass-80% GC, 100 height	% cover, 0.1m	Fuel type: Ungrazed Great Cover, 0.2m height	rass -70% GC, 100%		
	Expect HF rate of spread of	500 m/hr	Expect HF rate of spread	d of 1600 m/hr		
	HF Intensity	630 kw/m	HF Intensity	1570 kW/m		
	Flame lengths	1.4 m	Flame lengths	2.3 m		
	Safety Considerations:	X				
	Head Fire intensity, in pine/s	crub fuels will	Head Fire intensity exceed threshold for			
	require air attack.		direct attack in gorse and mature pine fuels Flank fires intensity is now too high for ground crews			
	Based on the Dovedale weath	er station and				
	NIWA forecasting.					
e e	83.589					

QR CODES FOR MAP DOWNLOAD

Released under the Official Infor

1. Incident Name

Date 9&10/2/2019

Pigeon Valley Fire, Nelson 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 –

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	and cc, 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	dilo

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 9th
	Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Попоравон	
Media	Schedule
Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on
-0	interest overnight.
Madb dis visite	Now a calculated assumently
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:	Date:	9/2/19 1900hrs
--------------	-------	----------------

Sector	Fire loc	ation				Sign	ed			
Supervisor	S-Super	rvisor				Sect				
•	name		Date				ne/Loca	tion		
Report	Shift St	Shift Start				Shift	Start		Date	
(to be completed			Time						Time	
following shift	,									
Crews on you										
Crew	C-Leade	er	No.	Equipmen	t use	d that c	rew sup	plied		
Name/Compa	ny Name		Crew	Radios		C-saw		H-To	ols	Oth
									\mathcal{L}	
Equipment us			I	l					0	
Pumps	Wajax 1			hrs		Acqual		4		hrs
(hrs for each	Wajax 2			hrs		Watero				hrs
pump)	Wajax 3			hrs hrs		No Dar	ns Used			
Hose Lengths	25mm	•		41mm				70mr	n	
Hose Lengths	4length	s=1nk		3lengths=	1pk			/01111	"	
Suppressants	Foam	.5-1pk		Litres	-pr	(A)		Soap	Сар	
Fire Appliance		he sect	or	.6						
Registration	Туре	Drive	r name	O	Hou Usa site	ge on	Otnei	com	ments	
		 	C	7)						
		1								
			1.							
		1								
		S								
	79	2								
Harris Market										
Heavy Machin			W NO.		Li a	uni.	Other		mant	
Heavy Machir Registration	nery Used on Type		r name		Hou	_	Other	r Com	ments	
			er name		Usa	ırly ge on	Other	r Com	ments	
			r name			_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	
			r name		Usa	_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	

	Incident Name	Operation	nal Period	IAP	COVER SHEET				
	Pigeon Valley	Date 10/2	/2019		RF199				
		Time 0700) - 1900						
	IN	ICIDEN	T ACTION I	PLAN					
	The items checked below are included in the incident Action Plan								
	SITUATION REPORT								
	<u> </u> INCIDENT OBJE	CTIVES							
	ORGANISATION	IAL LIST							
	SECTOR ASSIGN	IMENT							
	DIVISIONAL ASS	SIGNME	NT						
	AIR OPERATION	IS PLAN							
	COMMUNICAT	ION PLA	١N						
	SAFETY PLAN								
	MEDICAL PLAN		· C	10.					
	FIRE MAP								
	WEATHER FORI	ECAST A	ND MAP						
	FIRE BEHAVIOU	IR FORE	CAST						
	OVERVIEW MA	PS AND	DOWNLOA	D QR CC	DES				
	PUBLIC INFORM	X	•						
	Approved by Incident Cont	roller: Si	gned		Date/Time				
	Name				2000 8/2/19				
	0		•						
20	FIRE EMERGENCY NEW ZEALAND								



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 10/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

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.

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.

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.

Current resources working on the vegetation fire (day 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.

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 helicopteral 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

eleasedundertine

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:		Date/Time:			
Authorised by	(Incident Controller)	1500 9 th Feb 2019			
1. Incident Name	2. Operational Perio	2. Operational Period		SITUATION	
Pigeon Valley	Date 9/2/2019	Date 9/2/2019		REPORT	
	Time 0700 - 1900			RF201	
3. Location	4. Vegetation	4. Vegetation		5. NZ Topo50 Grid Ref.	
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/	Slash/	41°22'32.51"S		
Tasman	Other:		173° 1'31.81"E		

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 10/2/2019	OBJECTIVES
	Time 0700 - 1900	RF202

3. Overall Incident Objectives

- 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

- 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.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

Specific operational tasks for this shift to meet objectives

- 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	2/19
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	1. Incident Name	2. Operational Period		ORGANISATION
		Date 10/2/2019		ASSIGNMENT RF203
		Time 0700 - 1900		W 203
	3. Incident Control		Phone	Radio Ch
	Incident Controller	(NIMT)		
	Deputy IC			
	Information Officer			
	Safety Officer	(NMIT)		
	Liaison Officer			
	4. Agency Representative		Phone	Radio Ch
	Lead Agency	FENZ		
	Agency	Police		
	Agency			
	Agency	CDEM		
	Agency	CDEM Duty Phone		
	Agency	FENZ Urban Liason		
	5. Planning/Intell Section		Phone	Radio Ch
	Planning/Intell Manager			
	Situations Unit			
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	96			
	2569			
	03			
	2,0			
	Resources Unit			
2				
	Management Support Unit			
	Information Unit	:		

	Advance Planning Unit			
	Fire investigation			
	6. Logistics Section		Phone	Radio Ch
	Logistics Manager	(NMIT)		
	Supply Uni			
				:.(O)
	Catering Unit			
	Facilities Unit			
	Finance Unit		60.	
	Communications Unit			
	Medical Unit		Disc. s	D - d' - Ch
	7. Operations Section	* ,	Phone	Radio Ch
	Operations Manager			_
	Deputy Operations Manager			_
	Division Alpha			_
	Division Xray			_
	Division Yankee			_
	Division Zulu			_
	Division Atawhai			_
	Air Division Commander			_
	Air Attack Supervisor			_
				_
	Air Wed Supervised Turings			_
	Air Attack Supervisor(Trainee)			_
	Air Support Supervisor			_
				1
20	8. Prepared by:		Data Internation	00.0/2/40
	x Prepared by.		Date/Time: 19	UU 8/2/19

	1. Incident Name Pigeon Valley			2. Operational Period Date 10/2/2019 Time 0700 - 1900				DIVISION ASSIGNMENT	
	3. Division		·	4. Desc	ription		•		
	Alpha			Point o	f ignition to D	ove Saddle o	on Ede	r Rd	
	5. Division Commander	Affili	ation		Phone		Radio	o Ch	
							Comn	nand: Fire	
							Crew	: Simplex	
	6. Resources Assigned this Posterior	eriod 		Super	visor	Crews	5	Radio Ch	
	Bulldozer D7		TLC						
	Excavator 20 T		TLC			~			
	Hira Smoke Chaser from 2pm	1				&O			
	DOC Motueka +3 PX		Last D	ay					
	DOC Takaka + 8 PX		Last D	ay					
	DOC Nelson Lakes + 4 PX		Last D	ау					
	DOC South Marlborough + 4	PX							
	JNL + 4 PX								
	A1 Dozer to continue to wide Smoke chaser and crews to possible and safe. Structure protection in Sh	n Rou olackin	ng out t		n 10m increm	ents along p	erimet	er where	
	Feller buncher to continue required on fire ground. To Mop up with ground crews	o be d	irected	by Heav	y equip. mana				
_(Helicopters to support groun request Alpha 1 - Div break to Ford o Alpha 2 – From ford on Sharp	n Shar	rps Rd						
	8. Division Communications					Phone		Radio Ch	
4	Operations Manager							Fire 1/Cellphone	
	Air Division Commander							Fire 4/Cellphone	
	9. Prepared By:					Date/Time	1900	9/2/19	
								<u> </u>	

1. Incident Name Pigeon Valley		2. Operational Per Date10/2/2019 Time 0700 - 1900	riod	DIVISION ASSIGNMENT RF204a
3. Division		4. Description		NI 204a
Xray		Division from Cut I	hill Johnsons Ro	d to CHH saw mill
5. Division Commander	Affiliation	Phone		Radio Ch
				Fire 5
6. Resources Assigned this P	eriod			
Sector		Supervisor	Crews	Radio Ch
D155 Dozer				
Nicholson Tanker	13,00	00 L		
Excavators X2				
Appleby Tanker (short crewe	d)		(0)	
Smoke Chaser Wainui 3px				
NZDF RFA x7px				
Invercargill Crew + 5 PX				
AFM – 4px		~~0		
Otago Crew + 5 PX		,C1O,		
Hurunui Crew + 4 PX				
X1 Mop up with ground crev saddle and assist on Johns X2 Check and enhance perim	ons Rd if req	uired		
X3 Monitor only, no operation	ns required	at this stage.		
Helicopters to support groun VHF 4 with requirements	d operations	s as required. Division	n Commanders	to call Air attack on
Xray 1 – Cuthill/Johnsons Re Xray 2 - 5423000/1603000 to Xray 3 - Redwood Valley Rd	o intersection	n of Redwood Valley	Rd and Red S	
8. Division Communications			Phone	Radio Ch
Operations Manager				Fire 1/Cellphone
Air Division Commander				Fire 4/Cellphone
10. Prepared By:			Date/Time	1900 9/2/19

1. Incident Name Pigeon Valley		Date 10	ational Perio 1/2/2019 700 - 1900	d	A	DIVISION SSIGNMENT
3. Division		4. Desc	ription			RF204a
Yankee			s Road to CHI	H saw mill at	Eves \	/alley
5. Division Commander	Affiliation		Phone		Radio	o Ch
	Wakefield	VFB			Fire 3	
6. Resources Assigned this Sector	1	Superv	isor	Crews	5	Radio Ch
2x Excavator 20T	Taylo					
Bulldozer D8	Taylo	ors				O
Brightwater 5026 + 4px					(4)	
Rural Tanker Downers + 1px	(
Brightwater 5071 + 3px				XO		
Stoke 221 + 5px						
Richmond 331 + 4px						
Ngatimoti 5375 + 4px			10			
Wellington 2 + 5 PX						
West Coast 2 + 5 PX And Sm Chaser and Tanker	юке	- CX				
Y1 Push fire line in from Edd Monitor existing fire break Y2 Continue felling Eucalype Protect Mill and surroun Helicopters to support ground VHF 4 with requirements Yankee 1 — South edge of many Yankee 2 — Xray div break to	tus trees arou ding structure nd operations	in Eves Va es s as requir k at Zulu	lley Mill ed. Division (s to cal	l Air attack on
8. Division Communications Operations Manager	S			Phone	; •	Radio Ch
Air Division Commander						Fire 4/Cellphone
11. Prepared By:				Date/Time	1000	-

	Pigeon Valley		Date 1	rational Perio 0/2/2019 700 - 1900	DIVISION ASSIGNMENT RF204a		
	3. Division			4. Desc	ription		
	Zulu			Point o	f ignition to C	HH saw mill	
	5. Division Commander	Affilio	ation		Phone		Radio Ch
							Fire 2
	6. Resources Assigned this P	eriod					
	Sector			Super	visor	Crews	Radio Ch
	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 Z1 Protection of cell tower w				• (0)		
	this area due to large num Remove vegetation betwee North to the road near the Lay a contingent retardant of Pigeon and Wai iti streat Lay a contingent retardant Commander. Will instruct Division Comma Z2 Link containment line from Protection of dairy farm a Ground crews continue to Protection of structures in Helicopters to support ground VHF 4 with requirements Zulu 1 – Alpha div break to Bart	een Pige small tine bams. Iine ar nder of mop of the artoped and oper and o	geon Cr bridge y tanke ound s f exact on Rd t uctures up. p of Dro	eek and across of er & hose tructure location to Tea Po	dry creek. e 5 metres wides north of Wans at morning of valley. extending def	de on the for akefield as di briefing Fensible spac	rest side at the junction rected by Div e.
\	Zulu 2 – Barton lane to Yank						D !! 0!
*	8. Division Communications					Phone	
	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		Date 10	ational Perio 0/2/2019 700 - 1900	d	AS	DIVISION SIGNMENT RF204a
3. Division Atawhai		4. Desc	ription		<u> </u>	N 2048
5. Division Commander	Affiliation		Phone		Radio	Ch
	FENZ					
6. Resources Assigned this Sector	Period	Superv	risor	Crews		Radio Ch
Doc S.Cant Crew 8px (2 mer	ged)					7
Hawks Bay Crew – 5px						
716 smoke chaser				(0)		
Hira Smoke chaser 2px						
Winn Tanker (Bulk) 1x						
			. 0			
7. Division Assignment/Spe	ecial Instruction	ns			·	
Ground crews continue to n	nop up and bla	cken out				
Deeper seated spots will ne	St. Mile	ut.				
8. Division Communications	S			Phone I	ı	Radio Ch
Operations Manager _						
13. Prepared By:				Date/Time	1900 9	/2/2019

1. Incident Name		2. Ope	rational Perio	od	DIVISION
Pigeon Valley		Date 1	0/2/2019		
			700 - 1900		ASSIGNMENT
					RF204a
3. Division		4. Des	cription		
Property Assessments		Function	onal division a	across Pigeon	Valley Incident
5. Division Commander	Affiliation		Phone		Radio Ch
6. Resources Assigned this I	Period				
Sector	İ	Super	visor	Crew:	Radio Ch
	FENZ	Liaison			
				(0)	
7. Division Assignment/Spe	cial Instructi	ons			
1. The property assess	sments are b	eing plan	ned and com	oleted to ens	ure the safety of
responders and res	idents during	visitatio	n and reoccup	ation. Fire d	anger risk assessments
will be completed f	or each prop	erty, surr	ounding area	and access r	outes. The risk
assessments will in	clude work o	n danger	trees, conditi	on of surrou	nding flammable fuels

weather.The assessments will include staff from Civil defence, FENZ and specialist contractors as

and built structures. These will be reviewed in relation to incident statues and predicted

- 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

required.

8. Division Communications	Phone	Radio Ch
Operations Manager		Fire 1/Cellphone
Air Division Commander		Fire 4/Cellphone
14. Prepared By:	Date/Time 1900	8/2/19

Personnel and Communications Position Air Div Commander Air Attack Supervisor Air Support Supervisor Lead Helicopter Pilot Lead Fixed-Wing Pilot Lead Fixed-Wing Pilot Air Resource Assignments Pilot Name/ Supervisor Type Call sign Ment Freq/Chan Fire 4 ecks UH-1 HHB Fire 4 ecks UH-1 HUE Fire 4 eid Hell B2 HPE Fire	1. Incident Name		2. Operatio	nal Perio	d		AIR OP	ERATIONS PLAN	
Personnel and Communications Position Air Div Commander Air Attack Supervisor Air Attack Supervisor Air Support Supervisor Air Support Supervisor Lead Helicopter Pilot Lead Fixed-Wing Pilot Lead Fixed-Wing Pilot Lead Fixed-Wing Pilot Air Resource Assignments Pilot Name/ Call sign ment Freq/Chan ecks UH-1 HHF Fire 4 elicharter 5000 HXX Fire 4 elicharter 5000 HXX Fire 4 elicharter 5000 HXX Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Fire 4 elicharter Fire 4 el	Pigeon Valley		Date 10/2/2	2019			RF2		
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Lead Helicopter Pilot Lead Fixed-Wing Pilot Air Resource Assignments Pilot Name/ Type Call sign ment Freq/Chan ecks UH-1 HHF Ecks UH-1 HHB Fire 4 Elicharter S000 HXX Fire 4 Elicharter S000 HXX Fire 4 Elicharter Fire	Air Attack Supervis	or(Trainee)							
Lead Helicopter Pilot Lead Fixed-Wing Pilot Air Resource Assignments Pilot Name/ Type Call sign ment Freq/Chan ecks UH-1 HHF Ecks UH-1 HHB Fire 4 Elicharter S000 HXX Fire 4 Elicharter S000 HXX Fire 4 Elicharter Fire	Air Support	Supervisor							
Lead Fixed-Wing Pilot Air Resource Assignments Pilot Name/ Aircraft Type Call sign Ecks UH-1 HHF Ecks UH-1 HHB Fire 4 Ecks UH-1 HHB Fire 4 Ecks UH-1 HHB Fire 4 Elicharter S00D HXX F									
Lead Fixed-Wing Pilot Air Resource Assignments Pilot Name/ Aircraft Type Call sign Ecks UH-1 HHF Ecks UH-1 HHB Fire 4 Ecks UH-1 HHB Fire 4 Ecks UH-1 HHB Fire 4 Elicharter S00D HXX F]				
Air Resource Assignments Pilot Name/ Company Type Call sign Ecks UH-1 HHF Ecks UH-1 HHB Ecks UH-1 HHB Elicharter 500D HXX Fire 4 Elicharter 500D HXX Fire 4 Elicharter Fire 4	Lead Helio	copter Pilot							
Pilot Name/ Type Call sign ment Freq/Chan Preq/Chan Preg/Chan Preg	Lead Fixed	l-Wing Pilot					X		
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Interpine	RPAS /	PINES2		Fire 4				
	UAV							
Usar	RPAS /	PINES3		Fire 4				
	UAV							
5. Location of Filling	5. Location of Filling Points/Service Areas							
				Grid Reference				
Heli base			-41.317	77, 137.1098	7			
		-		.9 S 173 05 0				

6. Safety Notes / Hazards / Radio Coverage Limitations

7. Air Operations Special Equip or Service

- Retardent filling crew (Fixed Wing) -
- Bryant Earthworks -
 - 2x dip trucks
 - 1x dip truck and trailer
 - 5x support tankers

zeleased linder line

8. Prepared By: Date/Time: 1900 8/2/19

1. Incident Name	1. Incident Name Pigeon Valley		Period	COMMUNICATIONS PLAN
rigeon valley		Date 10/2/2019 Time 0700 - 19		RF205
3. Radio Channels Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	
			154.33125 TX	
Division Alpha	Operational	Fire 1	143.8250	0
Division Zulu	Operational	Fire 2	143.7875	0
Division Yankee	Operational	Fire 3	140.9250	0
Division Xray	Operational	Fire 1	143.8250	0
Air Ops -Heli	Operational	Fire 4	140.6125	0
Air Ops – Fixed Wing	Operational	Fire 10	140.9875	0
Emergency		Waimea 1	152.55000 RX 154.33125 TX	2,
Resources		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
2 Hourly - Sitrep		OPSR2	Use mobile if di	fficult coms to FCP
4. Telephone			<u> </u>	
Assigned To	Landline	Cell phone	Fax	Comments
Emergency		111		
Regional Command Centre (RCC)	4/0			
6. Other (e.g. email,			1	
Resources		NZNelsonIMT.com	1	
Safety	safety@FENZN	lelsonIMT.com		
Logistics	logistics@FENZ	ZNelsonIMT.com		
PIM	pim@FENZNel	sonIMT.com		
Planning	planning@FEN	ZNelsonIMT.com		
Forward Control Point	t (<u>icu.nelson@fir</u>	eemergency.nz		
Situation / GIS / Intel	situation@FEN	IZNelsonIMT.com		
Operations	operations@Fl	ENZNelsonIMT.co	<u>m</u>	
Photos and imagery	Join Facebook INTERNAL CON	site; Pigeon Vall MMS		ttps://www.facebook.com/ roups/1924082991035550/
6. Prepared by:			D	Pate/Time 1900 8/2/19
7.				

1. Incident Name 2. Operational Period Pigeon Valley Date 10/2/2019 Time 0700 - 1900 SAFETY PLAN RF209

3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (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)	 conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible 	 Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative
E – Escape Route(s) S – Safety Zone(s)	danger. 6. Stay alert. Keep calm, Think clearly, act decisively.	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
	7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.8. Give clear instructions and ensure they are understood.	 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
	9. Maintain control of your crew/s at all times.10. Fight fire aggressively having provided for safety first.	 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 eventof harm. Meeting at preidentified 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

1. Incident Name		2. Operatio	nal Perio	od		MEDICAL			
Pigeon Valley		Date 10/2/2	2019						
		Time 0700 -	1900		PLAN RF206				
3. First Aid Station <i>Name</i>	Loc	ation		ne/Radio nnel					
Each Crew must have available one First aid Level 1 Certified	Each cre	w			•	S			
Nelson 91 Ambulance	Forward comman	d post	Waim	iea 1	1 Paramedic	and 1 E	MT		
				۷.(30.				
4. Transportation Ambulance Service	Add	Phone/Radio Channel		o Paramedics available with Ambulance					
Ambulance St Johns	Closest u	ınit	111		Yes				
5. Hospitals Hospital Name	Address	s PF	none	Road	Travel Time Air	Burn Unit	Heli Pad		
Nelson Public Emergency	Waimea R	?d. 111		27m	4min	У	У		
Hutt Hospital (Burn Unit)		111	n/a		40min	Υ	У		
6. Special Emergency Procedur St John will transport patients t		r health faci	ity is ap	propriate					

Shift - Manager Nelson

Date/Time 1900 8/2/19

7. Prepared By:

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, \sim 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:	Time and date issued: 1430 09th Feb 19
Forecast no. 5	Day Shift

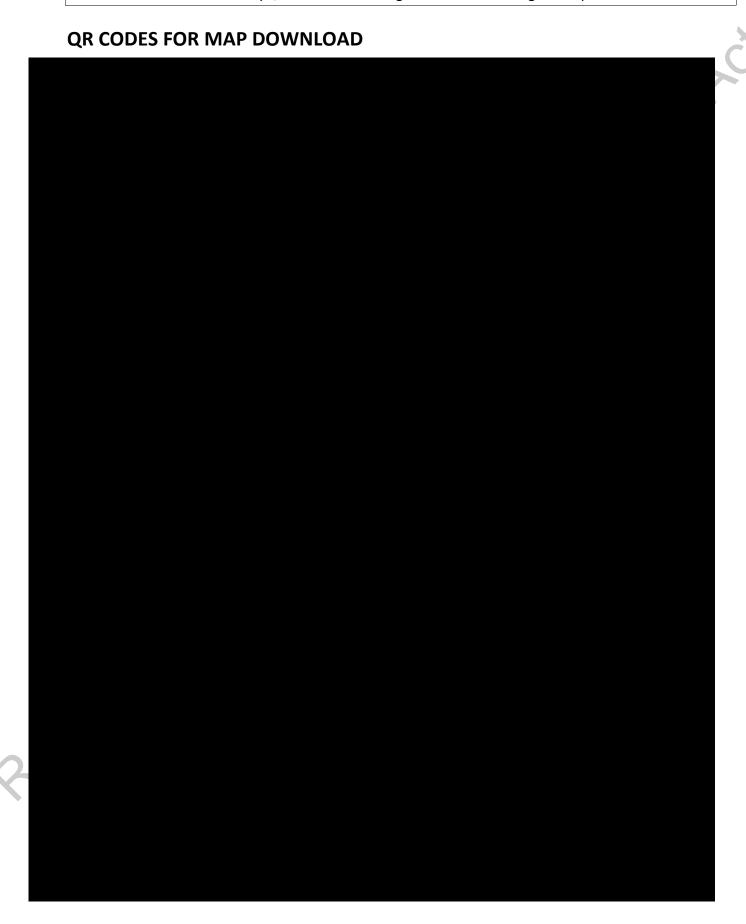
Assumptions: Dovedale weather station			Saturda y's forecast						
Temp *	RH %	Wind km/hr	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
21	65	15	0	79	102	477	7	133	18

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 front)	r – slope 0°	Forecast worst case – 28°C 4 1400-1800	5%RH slope 20°		
Fuel type: Forest/Scrub/gors	re mix	Fuel type: Forest/Scrub/ go	rse mix		
Expect HF rate of spread of		Expect HF rate of spread of 600 m/hr			
HF Intensity 2	2939 kw/m	HF Intensity	8900 kw/m		
Flame lengths	3.1 m	Flame lengths	5 m		
Fuel type: Grass-80% GC, 100 height	% cover, 0.1m	Fuel type: Ungrazed Grass cover, 0.2m height	-70% GC, 100%		
Expect HF rate of spread of		Expect HF rate of spread of	1600 m/hr		
HF Intensity	630 kw/m	HF Intensity	1570 kW/m		
Flame lengths	1.4 m	Flame lengths	2.3 m		
Safety Considerations:		.0,0			
Head Fire intensity, in pine/s	crub fuels will	Head Fire intensity exceed t	hreshold for		
require air attack.		direct attack in gorse and ma			
		fuels Flank fires intensity i	s now too high		
		for ground crews			
Based on the Dovedale weath NIWA forecasting.	ner station and				
.,6					
38.589 11100			RF201a		

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





Released under the

Public Information Management Plan

Overview of PIM response

The NIMT 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.

The overall PIM team is increasing personnel numbers.

NIMT PIM team – for Sunday 10th February

PIM Manager –
Media Officer –
PIM Support –

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	Christchurch	RCC R4 & R2, NCC, , 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 specifi	c sites or types	0			
Websites	Fire and Emergency I	Nelson Tasman Civil Defence - http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz				
Social media	Main channel: Nelson Fire and Emergency I Tasman-Malborough	NZ facebook pag				
Helpline	Welfare Helpline – 03	3 543 8400				
Information point						
Community contacts/meeting		Monday 11 th Fe	bruary – details TBC.			
Media message distribution	Specific stations or p	ublications				

	Media message distribution	Specific stations or publications
	Radio TV	*See media list
6-60	Newspapers	

Media	Schedule
Media	Media Stand Up at 0830hrs.
briefing/conferences	Media Stand Up at 1530hrs.
	2 hourly Media Releases
Media site visits	Stuff reporter requested for flyover - TBA
Interviews	Regular interviews with FENZ personnel
	<u></u>

Message monitoring

with pas 2/Operationa 2/Operati 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

1. Incident Name2. Operational PeriodPigeon Valley Fire, Nelson09/02/2019 – 0700 to 1900

Pigeon valley Fir	e, i	veison			09/02	/201	9 –	0/00 to 19	UU			
Sector		Fire loca	tion					Signed				
Supervisor		S-Super\	/isor					Sector				
-	3	name						Name/Location				
Report		Shift Sta	rt	Date			\Box	Shift Start		Date		
(to be				Time						Time		
completed												
following shift							\perp					
Crews on your	se											
		C-Leade	r	No.		it use	_	hat crew su		_		
Name/Compai	ny	Name Crew Radios C-saw H-1		Н-То	ols	Other						
	_									~'(
	\dashv											
Equipment use	ed (ctor									
Pumps		Wajax 1			hrs		_	qualite 1			hrs	
		Wajax 2			hrs		_	aterous 1			hrs	
(hrs for each		Wajax 3			hrs		No	Dams Use	d			
pump)		Wajax 4			hrs		C					
Hose Lengths		25mm			41mm		•		70m	m		
		4lengths	=1pk		3lengths=	1pk						
Suppressants Foam				Litres			Soap	Сар				
Fire Appliance	s U	sed on th	e sect	or								
Registration	Туј	pe	Drive	r name	>,	Hou			r Com	ments		
							Usage on					
						site						
			~			<u> </u>						
						<u> </u>						
Heavy Machin												
Registration	Туј	pe	Drive	r name		Hou			r Com	ments		
03	23				Usa	_	on					
50						site	;					
0						<u> </u>						

ı		Ι_			
	Incident Name		ional Period	IAP	COVER SHEET RF199
	Pigeon Valley	Date 1	0&11/2/2019		KF133
		Time 1	900 – 0700		
	IN	PLAN			
	The items che	cked belo	ow are included in the i	ncident Actio	on Plan
	SITUATION REP	ORT			
	☐ INCIDENT OBJE	CTIVE	S		
	ORGANISATION	IAL LI	ST		
	SECTOR ASSIGN	IMEN	Т		
	DIVISIONAL ASS	SIGNN	∕IENT		
	COMMUNICAT	ION P	LAN		
	SAFETY PLAN				
	MEDICAL PLAN		*		
	FIRE MAP		<i>*</i> .C		
	WEATHER FORI	ECAST	AND MAP		
	FIRE BEHAVIOU	JR FOI	RECAST		
	OVERVIEW MA	PS AN	ID DOWNLOAI	D QR CC	DES
	PUBLIC INFORM	ЛАТІС	N & MEDIA		
	Approved by Incident Cont	troller:	Signed		Date/Time
	Name		**		1900 10/2/19
20		HAKARATONGA	FIR EMERGEN		



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 10&11/2/2019	REPORT
	Time 1900 – 0700	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

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.

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

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

Current resources working on the vegetation fire (day 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.

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:		Date/Time:	10
Authorised by	(Incident Controller)	10/2/19 1900hrs	

le ased under the official

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 10&11/2/2019	OBJECTIVES
	Time 1900 – 0700	RF202

3. Overall Incident Objectives

- 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

- 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.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

5. Specific operational tasks for this shift to meet objectives

- 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
- 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		ORGANISATION
	Date 10&11/2/2019		ASSIGNMENT RF203
	Time 1900 – 0700		KF2U3
3. Incident Control		Phone	Radio Ch
Incident Controller			
	(NIMT) (Emergency	y)	
Deputy IC	(Emergency)		
Safety Officer			
			. 0
	(NIMT) (Emergency	7)	
4. Agency Representative - Emo	ergency contacts	Phone	Radio Ch
Lead Agency			
Agency			
Agency			
Agency	<u> </u>		
Agency			
Agency			
Agency	TENZ OTBATI LIASOTI		
5. Planning/Intell Section	- Emergency contacts	Phone	Radio Ch
Planning/Intell Manager			
Situations Unit			
Resources Unit			
6. Logistics Section	- Emergency contacts	Phone	Radio Ch
Logistics Manager	(NIMT)	C	
7. Operations Section		Phone	Radio Ch
Operations Manager			
60			
Deputy Operations Manager	•		
2			
(P)			
Division Alpha Commande			
Division Xray Commande			
Division Yankee Commande			
Division Zulu Commande			

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



Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700	DIVISION ASSIGNMENT	
3. Division		4. Description		23
Alpha		Point of ignition to	Dove Saddle o	n Eder Rd
5. Division Commander	Affiliation	Phone		Radio Ch
				V
6. Resources Assigned this Posterior	eriod	Supervisor	Crews	Radio Ch
D65 Dozer				
D7 Dozer				
210 Excavator				
772-4 Grader			KO.	
850-2 Dozer				
NFM 8px Crew				
• A2 Monitor Eder and Cut Crews blackening out to Widen Heines and Foxe Cut break from Eder Rd Alpha 1 - Div break to Ford of Alpha 2 - From ford on Sharp	chill roads, es o 30m in 10m s Rd to Sunrise to ~6.5k mark	pecially around the a ncrements where safe e Valley then down prominent	to do so t ridge to Forest	Rd at A1/A2 junction
8. Division Communications Operations Manager			Phone	Radio Ch

	Pigeon Valley		2. Operational Pe Date 10&11/2/20 Time 1900 – 0700	DIVISION ASSIGNMENT RF204a		
	3. Division		4. Description		N.F.	204a
	Xray		Division from Cut	hill Johnsons Ro	d to CHH saw mill	
	5. Division Commander	Affiliation	Phone		Radio Ch	
		33				
	6. Resources Assigned this P Sector Packer Crew	eriod	Supervisor	Crews	Radio Ch	
	AFM Crew				~0	
	Appleby Crew					
	Brightwater Tank 5075+ Crev	v		10		
	Upper Takaka CAF + Crew					
	RT 210B Excavator					
	RT 210A Excavator					
	RD JD850 Dozer		1.0			
	Higgins Tanker		.0\0			
	 7. Division Assignment/Species X1 Mop up and patrol f X2 Patrol and protect s X3 Monitor Area Xray 1 – Cuthill/Johnsons Rexiray 2 - 5423000/1603000 t Xray 3 - Redwood Valley Rd 	following presonant tructures ed intersection o intersection	ribed burn. Blacken o n (new Div break) to of Redwood Valley	o 5423000/1603 y Rd and Red S		
60)	8. Division Communications Operations Manager			Phone	Radio Ch	
	10. Prepared By:			Date/Time	10/2/19 1900hrs	

1. Incident Name Pigeon Valley		2. Operational Per Date 10&11/2/20 Time 1900 – 0700	DIVISION ASSIGNMENT RF204a			
3. Division		4. Description				
Yankee		Bennets Road to	CHH saw mill at I	Eves Valley		
5. Division Commander	Affiliation	Phone		Radio Ch		
6. Resources Assigned this Po	eriod					
Sector		Supervisor	Crews	Radio Ch		
Wainui 541 – Defence crew						
Upper Takaka + 5px	Last r	night				
210 Excavator						
240 Excavator			(O)			
336 Excavator						
D8 Dozer						
		. 0				
Tree felling machine Patrols to protect m Yankee 1 – South edge of mi Yankee 2 – Xray div break to	ill and surrou Il to div brea	k at Zulu	ill.			
8. Division Communications Operations Manager			Phone	Radio Ch		

	1. Incident Name Pigeon Valley		Date 10	2. Operational Period Date 10&11/2/2019 Time 1900 – 0700			DIVISION ASSIGNMENT RF204a		
	3. Division		4. Descr	ription					
	Zulu		Point of	ignition to C	HH saw mill				
	5. Division Commander	Affiliation		Phone		Radio Ch			
	6. Resources Assigned this P Sector	1	Super		<i>Crews</i>		Radio Ch		
	AFM Crew 5px	La	ast night 1	lth		X			
	Bears Smoke Chase					~0			
	Maraharu VRRF smoke Chase	er							
	Bears Tanker								
	Tapawera 01 + 10px	- l'			X				
	Brightwater 5071 – Rural App	piiance							
	Takaka 391 Urban appliance								
	Wainui Urban appliance								
	D8 Dozer 155-6 Dozer			Θ					
	21T Excavator								
	26T Excavator		0						
	201 Excavator	0	>						
20	7. Division Assignment/Spec 21 Rural patrol along pigeo Structure protection in particular Blackening out to 30m 22 Structure protection in Take break from Bradley's area of Golf Rd. Continue to construct medical Continue to Construct medical Section 2 – Barton lane to Yankee	n and Wai-iti pigeon valley eapot Valley s gate up ride echanical bre ton Lane div break.	i streams	_	nsular in Z1 t	o Z2 (Coo	ks Rd area)		
	8. Division Communications Operations Manager		<u> </u>		Phone	1	Radio Ch		
	12. Prepared By:				Date/Time	10/2/19	1900hrs		
					1				

	1. Incident Name Pigeon Valley		Date	2. Operational Period Date 10&11/2/2019 Time 1900 – 0700			DIVISION ASSIGNMENT RF204a		
	3. Division	3. Division		escription			111 2044		
	Atawhai								
	5. Division Commander	Affiliatio	on	Phone		Radio Ch	7		
	6. Resources Assigned this Po Sector	eriod	Sup	ervisor	Crews	R	adio Ch		
	Tasman Smoke Chaser + 2px								
,									
•									
				.0					
				<i>/</i> .()					
			0						
	7. Division Assignment/Spec Ground crew to continue to r			n out.					
	Deeper seated spots need to								
< (8. Division Communications				Phone	R	adio Ch		
	Operations Manager								
4	13. Prepared By:				Date/Time				

1. Incident Name Pigeon Valley 3. Division Structure protection 5. Division Commander Affiliation		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700 4. Description		DIVISIO ASSIGNMEN
				RF2
		Functional division across Pigeon Valley Incident		
		Phone Radio Ch		
3. Division commander	Ajjiiiutioii	Phone		Rudio Cii
6. Resources Assigned this	Period			
Sector	1	Supervisor	Crews	Radio Ch
			(0)	•
7. Division Assignment/Sp				
requested from loAny activities with geographical divisi	in geographica ion commande	r		tion and control of the
requested from loAny activities with geographical divisi	gistics in geographica ion commande	r		tion and control of the
requested from loAny activities with geographical divisi	gistics in geographica ion commande o responsible fo	r		ment of Urban crews
requested from lo	gistics in geographica ion commande o responsible fo	r	and replenish	ment of Urban crews
requested from lo	gistics in geographica ion commande o responsible fo	r	and replenish	ment of Urban crews

1. Incident Name Pigeon Valley			Operational Pe lte 10&11/2/201	19	DIVISION ASSIGNMENT		
3. Division				RF204a			
			Description	ъ.	V II		
Initial Attack		Fur	nctional divisior	n across Pigeon	n Valley Incident		
5. Division Commander	Affiliat	ion	Phone		Radio Ch		
6. Resources Assigned this P Sector	this Period		pervisor	Crews	s Radio Ch		
				(
				40			
Be available at FCP for required	or imme	diate res	ponse to any ne	ew breakout or	urgent support		
8. Division Communications				Phone	Radio Ch		
Operations Manager					Fire 1/Cellphone		
Air Division Commander					Fire 4/Cellphone		
15. Prepared By:				Date/Time	2 10/2/19 1900hrs		

/2019 0700 ne Assign- ment	Affiliatio Tactical Freq/Chan Fire 4	on Name	Phone	RF2 Radio Chan Telephone Numbers	
ne Assign-	Tactical Freq/Chan		Phone	Telephone	
- Assign-	Tactical Freq/Chan		Phone	Telephone	
- Assign-	Tactical Freq/Chan		Phone	Telephone	
	Freq/Chan Fire 4	Name			
	Freq/Chan Fire 4	Name			
	Freq/Chan Fire 4	Name			
	Freq/Chan Fire 4	Name			
	Freq/Chan Fire 4	Name			
	Freq/Chan Fire 4	Name	.40		
	Freq/Chan Fire 4	Name	~		
	Freq/Chan Fire 4				
	Fire 1				
	11164				
	Fine 4				
	Fire 4				
		<i>y</i>			
		Grid Refe	erence		
-41.317	777, 137.10987	7			
Limitations					
nt to 30m nerial map bef night	fore sunset				
С	Date/Time: 10	/2/19 1900	0hrs		
r	41 22 39 Limitations Int to 30m erial map be hight	41 22 39.9 \$ 173 05 04 Limitations Int to 30m erial map before sunset hight	-41.31777, 137.10987 41 22 39.9 \$ 173 05 04.6 E Limitations nt to 30m erial map before sunset night	-41.31777, 137.10987 41 22 39.9 \$ 173 05 04.6 E Limitations nt to 30m erial map before sunset	

1. Incident Name Pigeon Valley		2. Operational Date 10&11/2/	2019	COMMUNICATIONS PLAN		
3. Radio Channels		Time 1900 – 07	700	RF20		
Assigned To	Function	Channel	Frequency	System		
Command		Waimea 1	152.55000 RX			
			154.33125 TX			
Division Alpha	Operational	Fire 1	143.8250	0		
Division Zulu	Operational	Fire 2	143.7875	0		
Division Yankie	Operational	Fire 3	140.9250	0		
Division Xray	Operational	Fire 1	143.8250	0		
Division Bravo	Operational	Fire 2	143.7875	0		
Air Ops -Heli	Operational	Fire 4	140.6125	0		
Air Ops – Fixed Wing	Operational	Fire 10	140.9875	0		
Emergency		Waimea 1	152.55000 RX			
			154.33125 TX			
Resources		Waimea 1	152.55000 RX			
FireCom		FireCom	154.33125 TX			
2 Hourly - Sitrep		OPSR2	Use mobile if di	l fficult coms to FCP		
4. Telephone		OI SILE	Ose mobile ii di	Thealt coms to I er		
Assigned To	Landline	Cell phone	Fax	Comments		
Emergency		111				
Regional Command Centre (RCC)	*					
6. Other (e.g. email, Sa	phone, etc)		1			
Resources	resources@FEN	NZNelsonIMT.com	1			
Safety	safety@FENZN	elsonIMT.com				
Logistics	logistics@FENZ	NelsonIMT.com				
PIM	pim@FENZNels	sonIMT.com				
Planning	planning@FEN	ZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fire	eemergency.nz				
Situation / GIS / Intel	situation@FENZNelsonIMT.com					
Operations	operations@FE	NZNelsonIMT.co	<u>m</u>			
Photos and imagery	Join Facebook	site; Pigeon Vall MMS	-	https://www.facebook.com/ groups/1924082991035550/		
6. Prepared by:	<u>' </u>			Date/Time 10/2/19 1900hrs		

1. Incident Name	2. Operational Period	SAFETY PLAN
Pigeon Valley	Date 9&10/2/2019	SAFLITFLAN
	Time 1900 - 0700	RF20
3. General Safety Poir	nts	
Everyone is to be signed in payment records (Comple		e Incident Control Point for both safety check and
Maintain regular situatior supervisors.	ı reports especially kestrel observations	s (containing all relevant information) via line
LACES	Fire Orders	Watchouts
L - Lookout(s)	1. conditions and forecasts	1. Fire size is unknown (no size up).
A – Awareness	2. Know what your fire is doing at	2. Unfamiliar territory3. Safety zones and escape routes not identified.
1 Tiwareness	all times. 3. Base all actions on current and	3. Safety zones and escape routes not identified.4. Unfamiliar with weather and local factors
Anchor Point(s)	5. Dase all actions on current and	
Anchor Point(s)C – Communication(s)	expected fire behaviour of the fire.	influencing fire behaviour.5. No communications link with crew members

6. Instructions and assignments not clear.

humidity dropping

11. Working on a steep slope 12. Working in rugged terrain

13. Can't see main fire

16. Working alone

17. Getting tired

14. In unburnt vegetation

15. Walking through hot ashes

18. Working near power lines

19. Working near machinery

21. Working around trees or spars

20. Working with aircraft

7. Weather is getting hotter, drier and relative

8. Wind increases and/or changes direction.

9. Getting frequent spot fires across the line

10. Working uphill or down wind of a fire

5. **Post** lookouts when there is

clearly, act decisively.

possible danger.

7. Maintain prompt

adjoining crews.

known.

S – Safety Zone(s)

safety zones and make them

Stay alert. Keep calm, Think

communication with your

8. Give clear instructions and

Maintain control of your

crew/s at all times.

crew/s, your supervisor and

ensure they are understood.

10. Fight fire aggressively having

provided for safety first.

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

<u> </u>	0	W .		
5. Prepared By:				Date/Time 10/2/19 1900hrs

1. Incident Name	2. Operatio	nal Pe		MEDICAL				
Pigeon Valley		Date 10&11	/2/20		PLAN			
		Time 1900 -	- 0700					RF206
3. First Aid Station Name	Loc	ation		one/Radio nannel		Paramedics available at Station		
Each Crew must have available one First aid Level 1 Certified	Each cre	w						P
Nelson 91 Ambulance	Forward commar	Waimea 1		1 Pa	1 Paramedic and 1 EMT			
				χ(3/			
4. Transportation Ambulance Service	Address		Phone/Radio Channel		Paramedics available with Ambulance			
Ambulance St Johns	Closest unit		111		Yes			
5. Hospitals Hospital Name	Addres	s Ph	one	Road		el Time Air	Burn Unit	Heli Pad
Nelson Public Emergency	Waimea F	Rd. 111		27m		4min	У	У
Hutt Hospital (Burn Unit)		111		n/a	2	10min	Υ	У
6. Special Emergency Procedur St John will transport patients t		r health facil	ity is a	ppropriate	<u> </u>			
7. Prepared By:	Shift - M	lanager Nelso	on	Date/Tim	e 10/	2/19 190	00hrs	

Date/Time 10/2/19 1900hrs

8. Reviewed by Safety Advisor:

1. Incident Name
2. Operational Period
SHORT RANGE
Pigeon Valley
Date 10&11/2/2019
Time 1900 – 0700

2. Description of the first of the second
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.

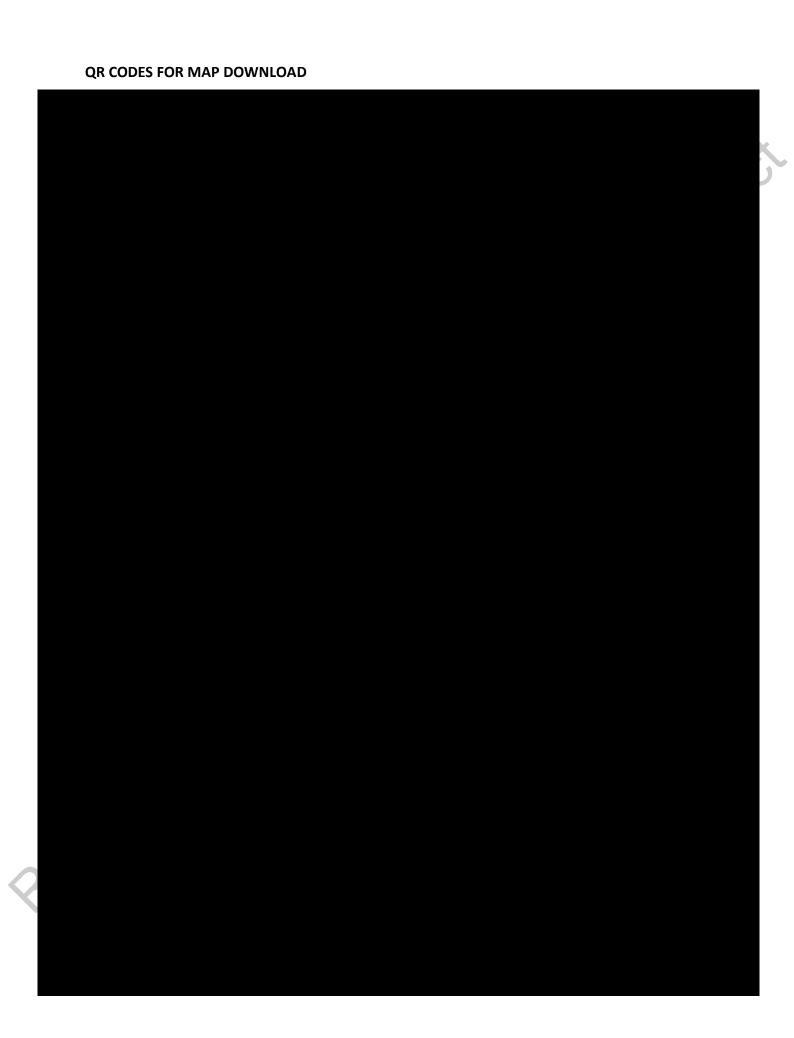
Tomorrow Cloud increasing through the day and NE winds dying out. RH reaching 50% mid afternoon and temperatures 23-25. Wind 20km with gusts to 40km

			Fire	weat	ther @	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				
	Forecast ROS/ Height (No	Peak ROS / Flame			
Fuel Type	Suppression)	height			
Mature Pine	185m/hr 3.1m	3,000m/hr 11m			
Grass (GC80%,H 0.1m,C100%)	760m/hr 1.6m	7,0000m/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. 6/69/269





Released under the Official International Property of the

1. Incident Name Date 10&11/2/2019

Pigeon Valley Fire, Nelson 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 –	
PIM Liaison –	
Media Officer –	
PIM Support –	
Social Media Manager, Community Liaison, Eva	ac/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, , 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	O _{III}	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 is: Nelson Tasman Civil Defence facebook page					
	Fire and Emergency NZ facebook page					
	Tasman-Malborough Fire Area facebook page					
	.0					
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:		Date:	10/2/19 1900hrs

Sector		Fire loca	tion				Sign	ed			
Supervisor	rs	S-Super\	/isor				Sect				
-	na		name		•			e/Loc	ation		
Report		Shift Sta	rt	Date			Shift	Start		Date	
(to be				Time						Time	
completed	.										
following shift		-4									
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Crew			r	No. Crew	Equipmen Radios	t use		ew su	H-To		Othan
Name/Compa	пу	Name		Crew	Radios		C-saw		H-10	OIS	Other
	-										
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Equipment us	ea (LLOF		hrs		A cours!	to 1	_4	11	hrs
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(hrs for each		Wajax 2			hrs		No Dan		4		1112
pump)		Wajax 3			hrs		NO Dall	13 036			
Hose Lengths		25mm			41mm				70m	m	
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Suppressants		Foam	,- <u>-</u>		Litres	+ hν			Soan	Сар	
Fire Appliance	es U		e sect	or	Lities				ССССР	Cap	<u> </u>
Registration	Ту			r name		Hou	urly	Othe	r Com	ments	
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Heavy Machin									_		
Registration	Туј	pe	Drive	r name		Hou		Othe	r Com	ments	
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Incident Name	Operational Per	riod IAP COVER SHEET										
Pigeon Valley	Date 11/2/2019											
	Time 0700 - 190											
		RF199										
	INCIDENT AC	CTION PLAN										
Th	The items checked below are included in the incident Action Plan											
SITUATION	SITUATION REPORT											
I 	IT OBJECTIVES											
	SATIONAL LIST											
	ASSIGNMENT											
	NAL ASSIGNMENT											
I=	RATIONS PLAN											
I=	JNICATION PLAN											
SAFETY												
MEDICA												
FIRE MA												
I=	er forecast and I	ΜΔΡ										
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I 	X	WNLOAD QR CODES										
	INFORMATION & M											
i Oblic		VILDIA										
Approved by Inc	ident Controller: Signed	.Date/Time										
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00,		FIRE										
		MERGENCY										



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 11/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. World Grid Scale 84.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

Latest information as at 1800 10/2/2019:

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.

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.

Current resources working on the vegetation fire (day 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.

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 contro 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 cnditions. 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:	Date/Time:	
Authorised by	(Incident Controller) 1800hrs 10th Feb 2019	
	*We	
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1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 11/2/2019	OBJECTIVES
	Time 0700 - 1900	RF202

3. Overall Incident Objectives

- 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

- 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.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

Specific operational tasks for this shift to meet objectives

- 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
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	1. Incident Name	2. Operational Period		ORGANISATION
		Date 11/2/2019		ASSIGNMENT
		Time 0700 - 1900		RF203
·	3. Incident Control	_	Phone	Radio Ch
	Incident Controller	(NIMT)		
	Deputy IC			
	Information Officer			
	Safety Officer	(NMIT)		
	Liaison Officer			<i>\$10</i>
	4. Agency Representative		Phone	Radio Ch
	Lead Agency	FENZ		
	Agency	Police		
	Agency			
	Agency			
	Agency	CDEM Duty Phone		
	Agency	FENZ Urban Liason		
	5. Planning/Intell Section		Phone	Radio Ch
	Planning/Intell Manager			
	.Situations Unit			
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	Resources Unit	_		
20		_		
	Management Support Unit			
	Information Unit			
	Advance Planning Unit			
	Fire investigation			

6. Logistics Section		Phone	Radio
Logistics Manager	(NMIT)		
Supply Unit			
		30303030	
<u> </u>			
Catering Unit			
Facilities Unit			
Finance Unit			
Communications Unit			
Medical Unit			
7. Operations Section		Phone	Radi
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			
2.0			
8. Prepared by:		Date/Time:	1900 10/2

-	1. Incident Name			2. Operational Period			DIVISION		
	Pigeon Valley			Date 11/2/2019			ASSIGNMENT		
				Time 0	700 - 1900		RF204a		
	3. Division			4. Desc	ription				
	Alpha			Point o	f ignition to	Dove Saddle	on Eder Rd		
	5. Division Commander	Affili	ation		Phone		Radio Ch		
							Command: Fire		
	C. Dana and Andread Helia D						Crew: Simplex		
	6. Resources Assigned this Posterior	erioa 		Super	visor	Crews	s Radio Ch		
	Bulldozer D7		TLC						
	Excavator 20 T		TLC						
	JNL + 4 PX					60			
	Ngatimoti 5325 Smoke Chase	r +2			•				
	Doc Hauraki 5px								
	Rai Silviculture 16px				.0				
	Tasman 2 tanker								
	DOC S. Canterbury 8px								
	Dangerous Tree Assessor 4px								
	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 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 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. Helicopters to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 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								
	Operations Manager						Fire 1/Cellphone		
	Air Division Commander						Fire 4/Cellphone		
	9. Prepared By:					Date/Time	e 1900 10/2/19		

	1. Incident Name Pigeon Valley			2. Operational Period Date11/2/2019 Time 0700 - 1900			DIVISION ASSIGNME		
•	3. Division			4. Desc	ription			111 20 10	
	Xray			Division from Cut hill Johnsons Rd to CHH saw mill					
	5. Division Commander	Affili	iation		Phone		Radio Ch		
							Fire 5		
	6. Resources Assigned this P	eriod							
	Sector		•	Super	visor	Crews		Radio Ch	
	DOC Blenheim - USA 1 12px								
	D155 Dozer						70		
	Nicholson Tanker		13,000) L					
	Excavators x4								
	Appleby Tanker					X			
	Smoke Chaser Wainui 3px								
	NZDF RFA x7px								
	Invercargill Crew + 5 PX				10				
	Otago Crew + 5 PX		<i>(</i> , ()						
	Wainui 9572 5px								
	Dangerous Tree Assessor 4px	(
	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 X2 Check and enhance perimeter around structures. Ground crews to mop up and patrol. X3 Monitor only, no operations required at this stage. 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. Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements 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							trol. ures and	
7	8. Division Communications					Phone		Radio Ch	
	Operations Manager					, none		re 1/Cellphone	
	Air Division Commander							re 4/Cellphone	
	10. Prepared By:					Date/Time		•	

	1. Incident Name Pigeon Valley	2. Operational Perion Date 11/2/2019 Time 0700 - 1900			od		DIVISION GNMENT RF204a		
	3. Division			4. Desc	ription			111 20 10	
	Yankee			Benne	s Road to CHI	H saw mill at	Eves Valle	у	
	5. Division Commander	Affili	ation		Phone		Radio Ch	Ch	
•		Wake	efield V	′FB			Fire 3		
	6. Resources Assigned this Po	eriod						0	
	Sector	Í		Super	visor	Crews	5	Radio Ch	
•	2x Excavator 20T		Taylor				X		
	Bulldozer D8		Taylor	·S					
	Brightwater 5026 + 4px								
	Rural Tanker Downers + 1px								
	Brightwater 5071 + 3px					&O			
	Wanuiomata 441 5px								
	Richmond 331 4x								
	Ngatimoti 5375 + 4px				. (2)				
	Wellington 2 + 5 PX								
	West Coast 8 PX And Smoke			S					
	Chaser and Tanker	,							
	Dangerous Tree Assessor 4px Y1 Push fire line in from Eder		nd cont	inue to v	widen Eder Ro	<u> </u> 			
	Monitor existing fire break		~6						
	Y2 Continue felling Eucalypto	us tree	s arour	nd Eves '	Valley Mill				
	Protect Mill and surround	ling str	ucture	S					
	X								
	Helicopters to support groun	d oper	ations	as requi	red. Division (Commanders	to call Air	attack on	
	VHF 4 with requirements								
	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. Yankee 1 – South edge of mill to div break at Zulu								
	Yankee 2 – Xray div break to								
20	8. Division Communications					Phone	•	Radio Ch	
	Operations Manager						ĺ	e 1/Cellphone	
	Air Division Commander							e 4/Cellphone	
	11. Prepared By:					Date/Time		•	

	1. Incident Name Pigeon Valley		2. Operational Period Date 11/2/2019 Time 0700 - 1900	od	DIVISION
Î	3. Division Zulu		4. Description Point of ignition to C	CHH saw mill	RF204a
	5. Division Commander	Affiliation	Phone		Radio Ch
	6. Resources Assigned this P Sector 4x Excavator 20T D65 Dozer Watertanker Pumicelands 7px South Canterbury 10px Lake Rotoiti + 4 PX Newlands 291 4px NZDF RFA 3px	eriod TLC	Supervisor	Crews	Fire 2 Radio Ch
	Wellington 1 + 5 PX				
	Auckland 1 5px				
	Tapawera 4wd tanker Dangerous Tree Assessor 4px				
	 Z1 Protection of cell tower was Maintain mobility in this set this area due to large numbers. Strengthen vegetation brother the North to the road near the North to the road near the North to the road near Protection of dairy farm a Ground crews continue to Protection of structures in the North to the road near the North to the North to the North to the Road near the North to t	sector react to aber of struct eak between r the small br crol McCalls, nd structures o mop up. ear top of Dr all hazardous Om from the d operations	o any break out (smokures. Pigeon Creek and vehidge across dry creek. Fea Pot Valley and Beis ones by extending defittess with a particular black edge. To work a	icle/machine nnits Roads. fensible spac ly focus arou thead of grou	ery yard and continue to e. und structures and und crews.
	Zulu 2 – Barton lane to Yank	ee div break.		Dhar-	Radio Ch
	8. Division Communications Operations Manager			Phone	Fire 1/Cellphone
	Operations Manager Air Division Commander				Fire 4/Cellphone
	12. Prepared By:			Date/Time	2 1900 10/2/19

1. Incident Name Pigeon Valley		2. Operational Per Date 11/2/2019 Time 0700 - 1900	iod	ASS	DIVISIO
3. Division		4. Description			RF2
Atawhai	Affiliation	Phone		Radio Ch	
5. Division Commander	Affiliation FENZ	Phone		Kaalo Ch	
6. Resources Assigned this Sector		Supervisor	Crews	5	Radio Ch
Hawkes Bay Crew – 5px					
716 smoke chaser					
Dangerous Tree Assessor 2	рх		(0)		
7. Division Assignment/Sp	mop up and bla	acken out.			
	mop up and bla eed to be dug c s all hazardous	acken out. out. tress with a particula	arly focus arou	und structi	ures and
Deeper seated spots will not be a seated spot will not be a seated spots will not be a seated spot will not be a seated spots wil	mop up and bla eed to be dug o s all hazardous om from the bla	acken out. out. tress with a particula	arly focus arou		ures and
Deeper seated spots will not DTA – Assess, mark and gp within 60m of roads and 60	mop up and bla eed to be dug o s all hazardous om from the bla	acken out. out. tress with a particula			

	1. Incident Name Pigeon Valley		Date 1	rational Perio 1/2/2019 700 - 1900	d	AS	DIVISION SSIGNMENT RF204a
	3. Division		4. Des	cription			111 20 10
	Structure protection		Function	onal division a	cross Pigeor	ı Valley	Incident
	5. Division Commander	Affiliation		Phone		Radio	Ch Ch
	6. Resources Assigned this P Sector	eriod	Super	visor	Crew	s	Radio Ch
	Nelson 212 4px						
	Nelson 213 4px						
	Takaka 391 4px						
	Nelson 2118 2px 2 excitative offices				<u> </u>		
	requested from logi Any activities within geographical divisio Urban division also NB Additional resources are	geographica n commande responsible f	er for adequ	ate rotation a	nd replenish		
	8. Division Communications	,			Phone	:	Radio Ch
	Operations Manager Air Division Commander						Fire 1/Cellphone Fire 4/Cellphone
	14. Prepared By:				Date/Time	1900	_
20	The state of the s						, - ,

Pigeon Valley		2. Operational Peri Date 11/2/2019 Time 0700 - 1900	oa	DIVISIO ASSIGNMEN
3. Division Initial Attack		4. Description Functional division	across Pigeon	-
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this Sector	Period	Supervisor	Crews	s Radio Ch
7. Division Assignment/SpBe available at FC required		ns e response to any nev	w breakout or	urgent support
 Be available at FC 			w breakout or	urgent support
Be available at FC required 8. Division Communication	P for immediate		w breakout or	Radio Ch
Be available at FC required	P for immediate			

1. Incident Name Pigeon Valley		2. Operational Pe Date 11/2/2019 Time 0700 - 1900	riod	DIVISION ASSIGNMENT RF204a
3. Division		4. Description		1(1 204a
Property Assessments		Functional division	n across Pigeon	Valley Incident
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this F Sector		Supervisor	Crews	Radio Ch
	FENZ	Liaison		
			40	
and built structures weather. 2. The assessments w required.	s. These will b ill include sta tions will be r	e reviewed in relation	on to incident s	nding flammable fuels tatues and predicted cialist contractors as ers at all times when on
y nugg				
8. Division Communications			Phone	ĺ
y nugg			Phone	Radio Ch Fire 1/Cellphone Fire 4/Cellphone

1. Incident Name Pigeon Valley	2. Operationa		Date 11/2/2019 Time 0700 - 1900	AIR OPERATIONS PLAN RF208
3. Personnel and Communication	ons Name	Affiliation	n Phone	Radio Chân
Air Div Commander	Name	Allillation	Phone	Radio Chan
Air Attack Supervisor				Fire 4
Air Attack Supervisor(Trainee)				
Air Support Supervisor				
Lead Helicopter Pilot				
Lead Fixed-Wing Pilot			(2)	
5. Location of Filling Points/Serv Name	vice Areas		Gr	rid Reference
Heli base		-41.31777, 137.10987		
Fixed wing	4	1 22 39.9 S 173 05 04.6	S E	
6. Safety Notes / Hazards / Radi	io Coverage Limita	ations		
 7. Air Operations Special Equip of Retardent filling crew (Fig. 8) Bryant Earthworks - 2x dip trucks 1x dip truck and tra 5x support tankers 	Fixed Wing) -	nuge		
8. Prepared By:	~0	Date/Time: 1900	0 8/2/19	
20/9	33.50			

Company Name	Aircraft Type	Rego/Call Sign	Pilots Name	Bucket Size	Contact Number	Availability
Rotoary	7 incruit Type	3.6.1	Thota Huma	Ducket Size	Trumber	Attunuonity
Beck's	UH-1	HHF		1500L •		Available
Docks	UH-1	ННВ		1500L		Available
Helicharter	500D	HXX		500L		Available
Garden City Heli	B3	IHL		1100L		Available
	EC130	IGF		1000L		Available
	ВК	IVB		1100L		Available
Reid Heli	B2	HPE		900L		Available
	FX2	HEX		1000L		Available
	B2	НАА		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	НЈМ		1000L		Available
Anderson	B2	НКА		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		7001		Available
Heliventures	B2	IER		1000L		Available
Murchison Heli	BA	ILW		680L/Platform		Available
Wellington Heli	EC130	IWN		880L		14hrs remaining
Fixed Wing						
	Cresco					Available
	Airtractor					Available
Drone						
Interpine	RPRS/UAV	PINES1				
Interpine	RPRS/UAV	PINES2				
USAR	RPRS/UAV	PINES2				

1. Incident Name Pigeon Valley		2. Operational Date 11/2/201		COMMUNICATIONS PLAN
		Time 0700 - 19	00	RF205
3. Radio Channel Assigned To		Channel	Frequency	System
Command		Waimea 1	152.55000 RX	,
			154.33125 TX	
Division Alpha	Operational	Fire 1	143.8250	0
Division Zulu	Operational	Fire 2	143.7875	0
Division Yankee	Operational	Fire 3	140.9250	0
Division Xray	Operational	Fire 1	143.8250	0
Air Ops -Heli	Operational	Fire 4	140.6125	0
Air Ops – Fixed W	ing Operational	Fire 10	140.9875	0
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 di	fficult coms to FCP
4. Telephone Assigned To	Landline	Cell phone	Fax	Comments
Emergency		111		
Regional Commo	and			
6. Other (e.g. em	ail, Satphone, etc)		1	
Resources	<u>resources@FI</u>	ENZNelsonIMT.com	1	
Safety	safety@FENZ	NelsonIMT.com		
Logistics	logistics@FEN	IZNelsonIMT.com		
PIM	pim@FENZNe	elsonIMT.com		
Planning	planning@FEI	NZNelsonIMT.com		
Forward Control F	Point (<u>icu.nelson@fi</u>	reemergency.nz		
FCP)		NIZNIAISANINAT SAM		
	ntel <u>situation@FE</u>	NZNeisoniivi i .com		
FCP)	-	FENZNelsonIMT.com	<u>m</u>	
FCP) Situation / GIS / II	operations@F	FENZNelsonIMT.co	ey Fire - <u>h</u>	ttps://www.facebook.com/ roups/1924082991035550/

1. Incident Name	2. Operational Period	SAFETY PLAN
Pigeon Valley	Date 11/2/2019	
	Time 0700 - 1900	RF209
3. General Safety Po	ints	,
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)	 conditions and forecasts Know what your fire is doing at all times. Base all actions on current and expected fire behaviour of the fire. Identify escape routes and safety zones and make them known. Post lookouts when there is possible danger. Stay alert. Keep calm, Think clearly, act decisively. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. Give clear instructions and ensure they are understood. Maintain control of your crew/s at all times. Fight fire aggressively having provided for safety first. 	 Fire size is unknown (no size up). Unfamiliar territory Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing fire behaviour. No communications link with crew members or supervisor. Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity dropping Wind increases and/or changes direction. Getting frequent spot fires across the line Working uphill or down wind of a fire Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting tired Working near power lines Working with aircraft Working with aircraft 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 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:		X		Date/Time 1900 9/2/19

1. Incident Name Pigeon Valley	2. Operation Date 11/2/2	019		MEDICAL PLAN				
3. First Aid Station Name Loc				Phone/Radio Channel		Paramedics available at Station		
Each Crew must have available one First aid Level 1 Certified	Each crew					<u>,:\C</u>		
Nelson 91 Ambulance	Forward command post		Waime	ea 1	1 Paramedic	and 1 E	MT	
					(0)			
4. Transportation Ambulance Service	Ada			e/Radio inel		amedics with Ambulance		
Ambulance St Johns	Closest unit		111		Yes			
5. Hospitals Hospital Name	Address	S Ph	one	Road	<u>Travel Time</u> Air	Burn Unit	Heli Pad	
Nelson Public Emergency	Waimea R	d. 111		27m	4min	у	У	
Hutt Hospital (Burn Unit)		111		n/a	40min	Υ	У	
6. Special Emergency Procedur St John will transport patients t		r health facili	ty is app	ropriate				

1. Incident Name	2. Operational Period	SHORT RANGE			
Pigeon Valley	Date 11/2/2019	FORECAST			
	Time 0700 - 1900				
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	2. Operational Period	FIRE BEHAVIOUR				
Pigeon Valley	Date 11/2/2019	FORECAST				
	Time 0700 - 1900					
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

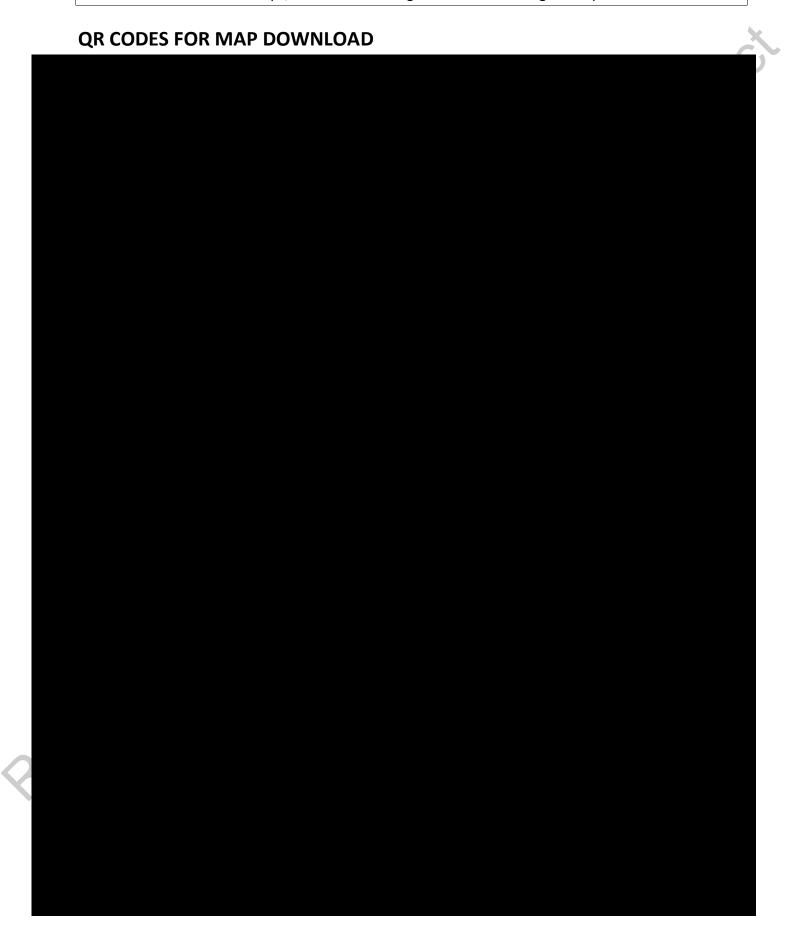
Specific Fire Behaviour									
Fuel Type	Forecast ROS/ Height (No Suppression)	Peak ROS / Flame height							
Mature Pine	185m/hr 3.1m	3,000m/hr 11m							
Grass (GC80%,H 0.1m,C100%)	760m/hr 1.6m	7,0000m/hr 4.5m							
. 0.	Specific Notes								

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.

6/6926

RF201a

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





Released under the

1. Incident Name	2. Operational Period
Pigeon Valley Fire, Nelson	11/02/2019 – 0700 to 1900

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 –	
PIM Liaison –	
Media Officer –	_
PIM Support –	
Social Media Manager, Community Liaison, Eva	ac/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, , 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	.670	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 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.

eleased under the

1. Incident Name	2. Operational Period
Pigeon Valley Fire, Nelson	11/02/2019 - 0700 to 1900

Ľ	Pigeon valley Fi	re, i	veison			11/02	/201	9 – 0/0	U to 190	00			
	Sector		Fire loca	tion				Sig	ned]
	Supervisor	re	S-Superv	visor				Sec					
	-	3	name			.			me/Loc	ation			⇃
	Report		Shift Sta	rt	Date			Shi	ft Start		Date		-
	(to be				Time						Time		ľ
	completed												
	following shift	_	-t										1
	Crews on you Crew	r se	C-Leade	r	No.	Equipmen	+ 1150	d that i	crow cu	nnliad	1	. (1)	1
	Name/Compa	nv.	Name	'	Crew	Radios	it use	C-saw		Н-То	_	Other	1
	Ivairie/ Compa	Пу	Ivaille		CIEW	Naulos		C-Saw		11-10	OIS	Other	1
											1	<i>y</i> *	┨
													1
													┨
	Equipment us	ed o	on the se	ctor	I					-		l	1
	Pumps		Wajax 1			hrs		Acqua	lite 1			hrs	1
			Wajax 2			hrs		Water				hrs	1
	(hrs for each		Wajax 3			hrs		$\overline{}$	ms Use	d			1
	pump)		Wajax 4			hrs		0					
	Hose Lengths		25mm			41mm				70m	m		1
			4lengths	=1pk		3lengths=	1pk						
	Suppressants		Foam			Litres			Soap Cap		Сар		1
	Fire Appliance	es U	sed on th	ne sect	or]
	Registration	Ту	pe	Drive	er name Hou		orly Other Comments						
						7		ge on					
							site						4
				-					-				┨
				7)									┨
									-				┨
													┨
													┨
									1				1
	Heavy Machir	nerv	Used on	site			<u> </u>						1
	Registration	Ту			r name		Ηοι	ırlv	Othe	r Com	ments		t
		.,,						ge on					
	20						site						
	0												1
	·												1
													1
													1
]

		T			
Incident Name		Operati	onal Period	IAI	COVER SHEET
Pigeon Valley		Date 11	&12/2/2019		RF199
		Time 19	00 – 0700		
	Incident Name	0	perational Period	IAD COVER SHEET	
	Pigeon Valley		ate 11&12/2/2019	IAP COVER SHEET	
		Ti	me 1900 – 0700		
		INC	CIDENT ACTION PI	LAN	
		The items check	ed below are included in the inc	ident Action Plan	
	SITUATIO	ON REPORT			
		R & FIRE B			
	FORECAS				10
		T OBJECTIV	THE PARTY OF THE P		
		SATIONALI			
		ASSIGNME NAL ASSIGN			
		RATIONS PL	- NO. CO. CO. CO. CO. CO. CO. CO. CO. CO. C		
		NICATION	0.0000000		
	SAFETY	PLAN			
	MEDICA				
			LOAD QR CODES		10000
	POBLICI	NFORMATI	ON & MEDIA	C	
	Approved by Inci	dent Controller:	Signed	Date/Time	
100	Name			1700. 11/2/19	
				1742	
			Desury Incipe	EcCorrected	
			FIRE		
		WHA	KARATONGA IWI EMERGENC	Y A STATE OF THE S	
	2		NEW ZEALAND		
)			
Approved by Incid	ent Control	ler:	Signed		Date/Time
					,
Name					1700 11/2/19
O'U					



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 11/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. World Grid Scale 84.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

Latest information as at 1500 11/2/2019:

During Sunday evening, three drone crews were deployed initially tasked with assessing properties and assets with a view to increase the likelihood of their owners return. They completed a full perimeter survey of Pigeon Valley Fire and Atawhai Rd Fire for hot spots to provide direction to ground operations for Monday. They have also confirmed no change in perimeter or area overnight.

Work over Monday has focused on strengthening control lines and extinguishing identified hot spots. Dangerous tree assessments are underway with initial priority on trees around structures.

Air operations will assess the work program today, and they have confirmed to drop to 10 helicopters.

Through Sunday night the weather eased, and we have had a recovery of RH this morning. Weather trough today has seen temps in the low to mid 20s and RH around the 50% mark. Through the week, the weather will be warm and dry with temperatures in the mid 20's and RH in the low 50's with a period tomorrow possibly in the 40%. There is a low probability of drizzle tonight, though high RH in the 90%. Over the next 14 days there is very low probability of rain exceeding 5mm.

Current resources working on the vegetation fire (day shift) are:

- 10 helicopters, two fixed wings plane, 3 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 15 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

To nights resources will be

- drone team
- 14 vegetation crews, and 11 structure crews (151 personnel)
- 9 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 4 structure crews
- 2 tanker crews

National Incident Management Team is in transition for handover, with shadowing through to 1500, whereby the new team will take control with a formal handover notification.

Wakefield re-entry was reassessed at 4pm today. Cordons were removed and people were allowed in as of 5pm

6. Assessment

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

Saturday night (09.02.19), 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 (07.02.19), 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 extended late Sunday 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 from late afternoon Saturday (09.02.19). Drone infrared operations will be used throughout the night to capture intelligence that will assist ground operations.

Values at risk are life, livestock 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 fire spread in the event another breakout occurs and a front is generated. This was jointly decided upon 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 0030, Sat 9 Feb at night, when favourable wind and weather conditions helped slow further progression.

A huge effort was invested in this area Saturday and continued Sunday, to allow this part of the fire to progressively burn downhill 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. These towers have had fire retardant applied to assist in protecting them and firebreak work continues to help with this. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site becomes damaged.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under controll

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. Extinguishment of this fire is nearing completion with a monitoring crew assigned overnight.

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.

A controlled burning operation was carried out successfully 10/2/2019 on a section of the fire perimeter in the Xray Division to bring the burnt edge of the fire out to the fire break. This tactic is used to consume fuel which would be available to the fire if it started to run up slope due to a strong wind behind it.

Released under the Official Inflorm

7. Action taken

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

- 10 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 15 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 and on going extinguishment of hot spots.

Machinery and fellerbunchers 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 was forecasted for Sunday 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 other parts of the fire ground.

Thursday 7 Feb, we established a No-Fly Zone over the fire ground, this will be in place until Monday 11, 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Structure crews have been deployed to key areas around the fire and the Wakefield township to provide additional support if needed.

During Sunday evening, three drone crews were deployed initially tasked with assessing properties and assets with a view to increasing the likelihood of their owners return. They completed a full perimeter survey of Pigeon Valley Fire and Atawhai Rd Fire for hot spots to provide direction to ground operations for Monday. They have also confirmed no change in perimeter or area overnight.

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 Saturday, 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 Sunday. The area has been measured by drones overnight and amounts to 3ha.

8. Factors

Extreme fire conditions. Limited non reticulated water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Winds will styed in the NE quarter today in the low to mind20s by afternoon

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua Sunday (10.02.19) with no concerns. Maori Liaison is now in place with the IMT.

Temperature and relative humidity is tracking as expected for today. Tonight, there is a chance of drizzle or at least RH in the 90% area. There is a forecast wind change to SW later tonight with winds shifting more west tomorrow.

9. Predicted Incident Development

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

Tonight, fire activity should ease with lower temps and RH in the 90% (possible drizzle). Winds are forecast to shift to the SW tonight and further to the west during tomorrow. Wind strengths will be in the range of 15 - 20kph with gusts in the 30s. The shift to the west will bring dryer condition for a time with temps in the higher 20s and RH in the 40s. Fire will likely increase in behaviour during this time with observations today showing active flame with RH in the 50s and Temps in the mid 20s.

Through the week, the weather will be warm and dry with temperatures in the mid 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:		Date/Time:	
Authorised by Market Market Inci	ident Controller)	1500hrs 11th Feb 2019	

1. Incident Name	2. Operational Period	WEATHER AND FIRE
Pigeon Valley	Date 11&12/2/2019	BEHAVIOUR FORECAST
	Time 1900 – 0700	

General Weather Overview

Tonight: NE , 10-15 km/h with gust easing and wind gradually turning SW around 11pm 10kph or less. There is a slight chance of drizzle between 2am and 6am or at least RH will be around 90%. Early morning temps near 15C

Tomorrow SW throughout the morning turning more westerly after 12pm. Wind in the morning 5-10kph increasing to 10-15kph during the afternoon. Wind could increase to 20-25kph with gusts in the 30s later in the day. Temps range 14-26 C and RH 95% dropping to the 40s

	Fire weather @ 1300hrs											
Weather	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI	
Station												
Dovedale												
Feb 11 Actual	25	55	NNE	16	0	87	106	491	5.9	138		25
Feb 12	23	60	WNW	11	0	88	110	505	5.4	143		24
Forecast												

General Fire Behavior

Overnight fire behaviour will ease, increasing through the day Tuesday as the westerly brings warmer and dryer conditions.

Specific Fire Behaviour								
Fuel Type	Forecast 1300	Peak ROS / Flame height						
	ROS/ Flame Height							
	(No Suppression)							
Mature Pine	66 m/hr 2 m	693m/hr 6m						
Grass (GC90%,C100%)	510m/hr 1.5m	2662m/hr 4m						

Specific Activities

Night conditions will be good for blackout and mop-up. During Tuesday morning it will be a good opportunity to make progress while fire activity is relatively low. Later in the day the warmer and dryer conditions will increase fire behaviour.

SAFETY ADVISORY

Wind conditions in afternoon Tuesday will cause tree windthrow danger due to damaged root plates.

The SW wind increase later Tuesday will put pressure on the NE sectors.

RISK	FFMC	DMC	DC	ISI	BUI	FWI
MATRIX	Ignition Potential	Mop U	Jp Difficulty	Rate of Spread	Fuel Availability	Fire Intensity
LOW	0+	0+	0+	0+	0+	0+
MODERATE	75+	21+	101+	5+	16+	4+
HIGH	85+	31+	176+	9+	31+	14+
VERY HIGH	88+	41+	251+	13+	46+	24+
EXTREME	92+	46+	326+	16+	61+	29+

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 11&12/2/2019	OBJECTIVES
	Time 1900 – 0700	RF202

3. Overall Incident Objectives

- 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)

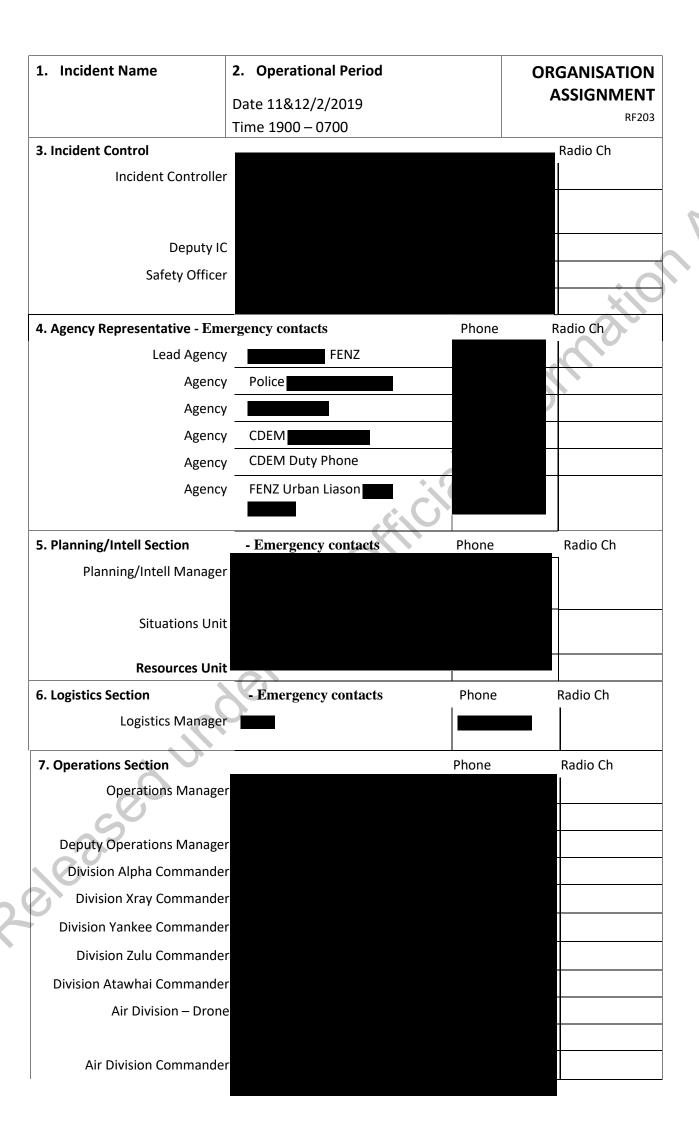
4. Strategies to meet objectives

- 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. Financial reporting established and continued
- 6. Create a recovery plan with community and stakeholders to assist post incident.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

5. Specific operational tasks for this shift to meet objectives

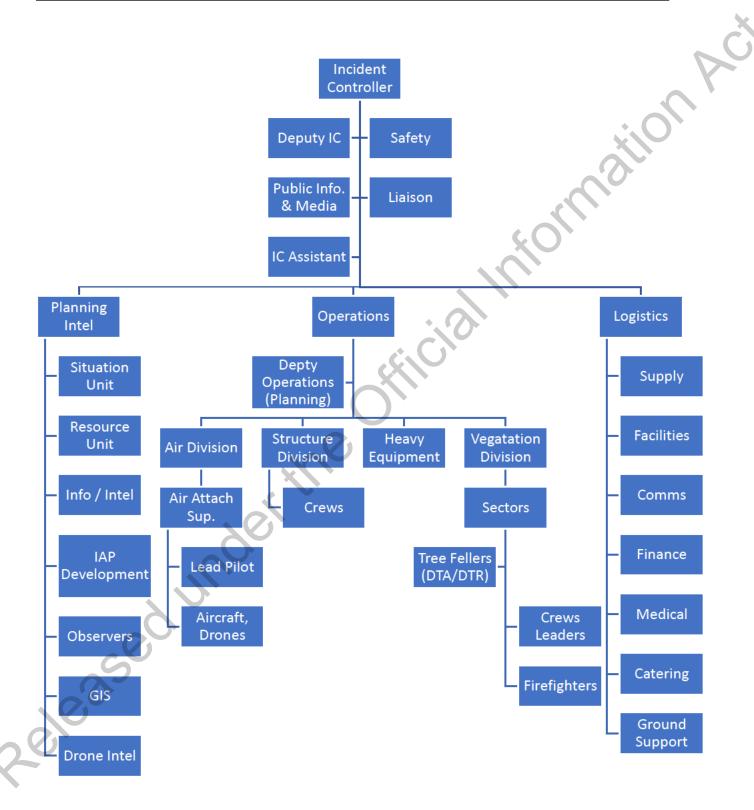
- Crew blacking out to 30m in 10m increments
- Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads
- Protection of identified structures and assets including cell phone towers, dairy farms and structures in "Drones Rd", Teapot Valley, Pigeon Valley and 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.
- RPA/UAV/Drone hotspot and perimeter surveys.
- Tree Felling around Mill
- Initial Attack crew on standby

5.	Prepared by:	Date/Time: 11/2/19 1320hrs	



8. Prepared by:	Date/Ti	ime: 11/2/19 1700hrs

10. INCIDENT CONTROL STRUCTURE



9. Prepared by: Date/Time: 1900 11/2/19

Pigeon Valley	Date	2. Operational Period Date 11&12/2/2019 Time 1900 – 0700			DIVISI SSIGNME	
3. Division		4. D	escription			•
Alpha			nt of ignition to	Dove Saddle	on Ede	r Rd
5. Division Commander	Affiliat	tion	Phone		Radio	Ch Ch
6. Resources Assigned this P Sector	eriod	Sup	pervisor	Crew	s	Radio C
3x Excavator						
2x Dozer						
NFM 10px Crew				8	0),	
Thermal Imaging crew 2px						
2 x Bulk tanker						
2 x rural appliance			*			
Patrol/protect structomap. • A2 Blackening out control Machinery to continue Alpha 1 - Div break to Ford of Alpha 2 – From ford on Shar	line from widening on Sharp ps rd to (previous b and diggin	urn in area towa	ards Xray -1 section (updat	ed Div l	break)
O District C				Phone	?	Radio Cl
8. Division Communications						
8. Division Communications Operations Manager						
				Date/Time	a 11/2/	19 1900hrs

1. Incident Name Pigeon Valley			2. Operational Period Date 11&12/2/2019 Time 1900 – 0700			DIVISION ASSIGNMENT	
3. Division			4. Description				RF20
Xray			Division from		Johnsons R	d to CH	IH saw mill
5. Division Commander	Affilia	tion	Phon	e		Radio	Ch Ch
6. Resources Assigned this F Sector	Period		Supervisor		Crews	3	Radio Ch
Puklowski 8px							
Packer 4px							70,
2x 4x4 Tankers NFL01 & App	leby					1	
2x Urban Appliance 291, 213	3				Ç.(
3x Rural Appliance							
RD JD850 Dozer				-			
Feller Buncher				+ C			
Thermal Imaging crew 2px							
Continue widening control li Patrol and monitor, blackeni Xray 1 – Cuthill/Johnsons Ro Xray 2 - 5423000/1603000 Xray 3 - Redwood Valley Ro	ng out co ed inters to interso I and Re	ut hill section	Rd and fire per (new Div breat of Redwood V	nk) to 54 Valley R	d and Red S		ne
8. Division Communications					Phone	<u>.</u>	Radio Ch
Operations Manager							
11. Prepared By:					Date/Time	11/2/	19 1900hrs
Season Season							

3. Division Yankee 5. Division Commander		Time 1300 0700	2. Operational Period Date 11&12/2/2019 Time 1900 – 0700		
		4. Description		RF204a	
Division Commander		Bennets Road to C	HH saw mill at	Eves Valley	
" DIVISION COMMINICI	Affiliation	Phone		Radio Ch	
5. Resources Assigned this Pe Sector	eriod	Supervisor	Crews	Radio Ch	
5086 crew 4px					
Puklowski 4px				.(
Brightwater 5071 – Rural App	oliance				
1x4 Tankers NFL02			X	J	
08 Dozer					
- eller Buncher					
Thermal image crew 2px		•			
Patrolling and mopping up. Yankee 1 – South edge of mil Yankee 2 – Xray div break to					
B. Division Communications	X		Phone	Radio Ch	
Operations Manager		·			
				11/2/19 1900hrs	

1. Incident Name Pigeon Valley		Date 11	2. Operational Period Date 11&12/2/2019 Time 1900 – 0700			DIVISION SSIGNMENT RF204
Division		4. Desc	ription		•	NI 201
ulu		Point of	f ignition to C	HH saw mill		
Division Commander	Affiliation	,	Phone		Radio	Ch
Resources Assigned this Pe Sector	eriod	Supe	rvisor	Crews	;	Radio Ch
Bears Smoke Chaser						
laraharu VRRF smoke Chase	r					~~
Bears Tanker					~	
rban appliance 331						·
rban appliance 441				X		
ural Appliance 5075						
hermal image crew 2px						
atrolling/mopping up/blacke tructure protection as requir ulu 1 – Alpha div break to Barto	red on Lane	notpots				
Division Communications	aiv break.	<u> </u>		Phone		Radio Ch
Operations Manager						
Sport attorio manager						
Specialisms manager				D-4- /T:	11/2/	19 1900hrs
ulu 2 – Barton lane to Yankee o Division Communications		300		Phone		

1. Incident Name Pigeon Valley		2. Operational Period Date 11&12/2/2019 Time 1900 – 0700			DIV ASSIGNI	ISION MENT RF204a
3. Division		4. Desc	cription		1	
Atawhai						•
5. Division Commander	Affiliation		Phone		Radio Ch	
6. Resources Assigned this Per Sector Night	iod	Super	visor	Crews	Radi	io Ch
Hira Smoke Chaser + 2px						
				ζ(<u>) </u>	
					,	
			•			
			· ()			
7. Division Assignment/Special Monitor and assess hotspots	al Instruction	ons				
Drone flight for thermal imagir	σ					
300						
8. Division Communications				Phone	Radio	o Ch
					i I	
Operations Manager						
Operations Manager 14. Prepared By:				D. 1. /=:	11/2/19 1900hi	

1. Incident Name			2. Operational Per	iod	DIVISION
Pigeon Valley		Date 11&12/2/201	.9		
			Time 1900 – 0700		ASSIGNMENT RF204a
3. Division			4. Description		
Structure protec	tion		Functional division	across Pigeon	Valley Incident
5. Division Commander	Affili	iation	Phone		Radio Ch
					\sim
6. Resources Assigned this Sector	Period		Supervisor	Crews	Radio Ch
				ķ(
geographical divisi	n geogr on com	mande	r		tion and control of the ment of Urban crews
8. Division Communication	S			Phone	Radio Ch
Operations Manager					Fire 1/Cellphone
Air Division Commander					Fire 4/Cellphone
15. Prepared By:					

1. Incident Name Pigeon Valley		Da	2. Operational Period Date 11&12/2/2019			DIVISION ASSIGNMENT		
	Time 1900 – 0700					RF204a		
3. Division		4. 1	Description					
Initial Attack		Fui	nctional division	n across Pigeon	Valley I	ncident		
5. Division Commander	Affili	ation	Phone		Radio	Ch		
C. Deservees Assigned this	Daviad							
6. Resources Assigned this Sector	Periou	Su	pervisor	Crews	5	Radio Ch		
7. Division Assignment/SpeBe available at FCP required			ponse to any n	ew breakout or	urgent	support		
 Be available at FCP 			ponse to any no	ew breakout or	urgent	support		
 Be available at FCP 	for imr		ponse to any no	ew breakout or		support Radio Ch		
Be available at FCP required	for imr		ponse to any no					
Be available at FCP required 8. Division Communications	for imr		ponse to any no		·	Radio Ch		

1. IIICIUEIII IVai	Incident Name 2. Operational Period				AIR OP	RATIONS PL	
Pigeon Valley	Da	Date 11&12/2/2019					RF:
	Tir	me 1900 – 07	00				
3. Personnel and	Communicat						
Position		Nam	е	Affiliati	on _.	Phone	Radio Cha
Air Div Comn	nander						
Air Division	Duana						
Air Division –	Drone						
							*
	_						
4. Air Resource As Pilot Name/	Aircraft	Reg or	Assign-	Tactical	Name		Telephon
Company	Туре	Call sign	ment	Freq/Chan	Nume		Numbers
Internalis s	DDAC /	PINES1		Fire 4			
Interpine	RPAS / UAV	PINESI		Fire 4			
Interpine	RPAS /	PINES2		Fire 4			
Usar	UAV RPAS /	PINES2		Fire 4			
O3di	UAV	THVESE		11104			
5. Location of Filli	_	rvice Areas		CI)	_	
Heli base	Name		/1 317	777, 137.10987		eference	
Fixed wing			_	.9 S 173 05 04			
6. Safety Notes /	Hazards / Ra	dio Coverage Li		.5 3 17 3 0 3 0 4	.0 L		
		_	70				
7. Air Operations		or Service					
Drone operations 1. Full perir		of containment	to 30m				
•	•	survey and aer	ial map bef	ore sunset			
			tht				
	tion platform	for Zulu overnig		Date/Time: 11	10.14.5.55		

1. Incident Name		2. Operational	Period	COMMUNICATIONS
Pigeon Valley		Date 11&12/2/		PLAN
3. Radio Channels		Time 1900 – 07	700	RF205
Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	
			154.33125 TX	
Division Alpha	Operational	Fire 1	143.8250	00
Division Zulu	Operational	Fire 2	143.7875	50
Division Yankie	Operational	Fire 3	140.9250	00
Division Xray	Operational	Fire 1	143.8250	00
Division Bravo	Operational	Fire 2	143.7875	50
Air Ops -Heli	Operational	Fire 4	140.6125	50
Air Ops – Fixed Wing	Operational	Fire 10	140.9875	50
Emergency		Waimea 1	152.55000 RX	
			154.33125 TX	
Resources		Waimea 1	152.55000 RX	
FireCom		FireCom	154.33125 TX	
2 Hourly - Sitrep		OPSR2	Uso mobile if di	ifficult coms to FCP
4. Telephone		OFSINZ	Ose mobile ii di	inicult coms to FCP
Assigned To	Landline	Cell phone	Fax	Comments
Emergency		111		
Regional Command Centre (RCC)	•			
6. Other (e.g. email, Sat	phone, etc)	>		
Resources	resources@FEI	NZNelsonIMT.com	1	
Safety	safety@FENZN	lelsonIMT.com		
Logistics	logistics@FENZ	ZNelsonIMT.com		
PIM	pim@FENZNel	sonIMT.com		
Planning	planning@FEN	ZNelsonIMT.com		
Forward Control Point (FCP)	icu.nelson@fir	eemergency.nz	ı	
Situation / GIS / Intel	situation@FEN	IZNelsonIMT.com		
Operations	operations@Fl	ENZNelsonIMT.co	<u>m</u>	
Photos and imagery	Join Facebook INTERNAL CON	site; Pigeon Vall MMS	· -	nttps://www.facebook.com/ groups/1924082991035550/
6. Prepared by:			[Date/Time 11/2/19 1900hrs
1. Incident Name	2. Operational	Period		SAFETY PLAN
	Date 11&12/2	2/2019		J. 1

 Pigeon Valley
 Time 1900 – 0700

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

- L Lookout(s)
- A Awareness
 - Anchor Point(s)
- **C** Communication(s)

eleased

- **E** Escape Route(s)
- S Safety Zone(s)

Fire Orders

- 1. conditions and forecasts
- 2. Know what your fire is doing at all times.
- 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. **S**tay alert. Keep calm, Think clearly, act decisively.
- 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.

Watchouts

- 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

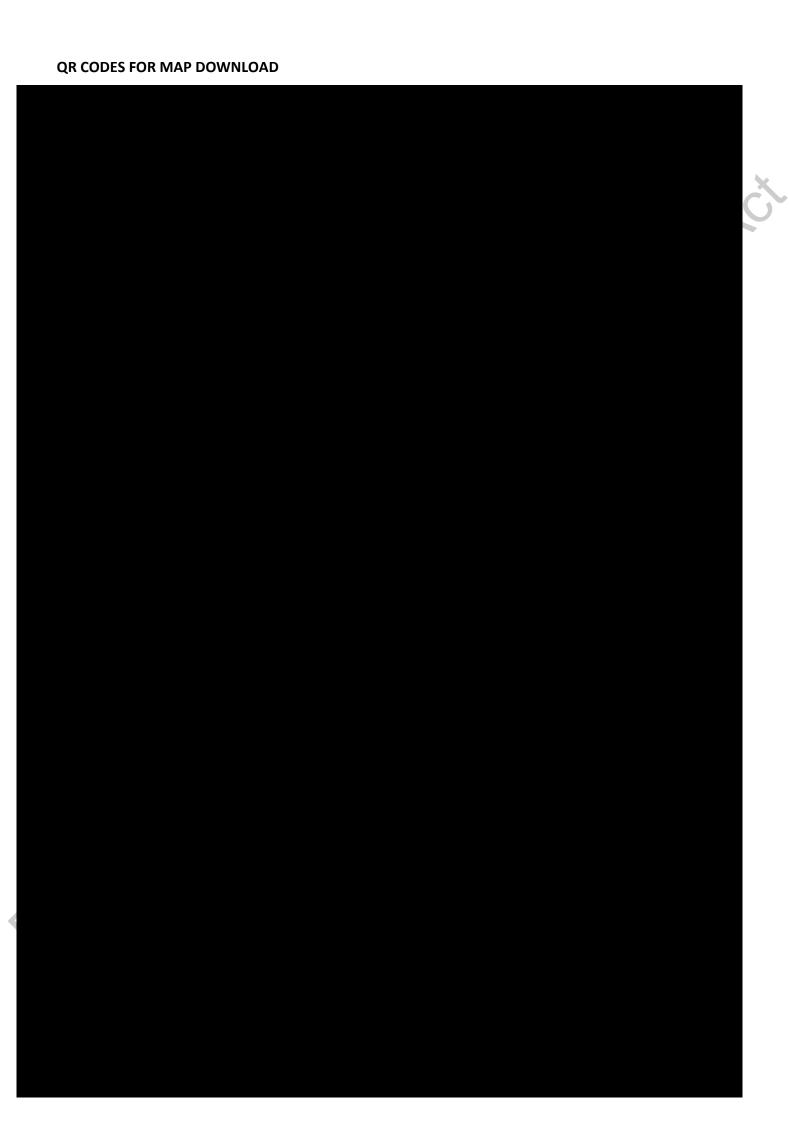
- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. 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 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
- Dangerous tree assessors Ensure all crew members are competent and equipped for task (including PPE).

5. Prepared By:		Date/Time 11/2/19 1900hrs	
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1. Incident Name Pigeon Valley		2. Operati Date 11&1		MEDICAL				
rigeon valley		- 0700	5		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						0	
Nelson 91 Ambulance	Forward command	post	Wain	nea 1	1 Paramedic	and 1 E	MT	
						O		
4. Transportation Ambulance Service	Addr	ress		ne/Radio annel	Paran available wit		ulance	
Ambulance St Johns	Closest ur	nit	111	0	Yes			
		O						
5. Hospitals Hospital Name	Address	S	hone	Road	<u>Travel Time</u> Air	Burn Unit	Heli Pad	
Nelson Public Emergency	Waimea Ra	l. 111		27m	4min	у	У	
Hutt Hospital (Burn Unit)		111		n/a	40min	Y	У	
6. Special Emergency Procedur St John will transport patients t		health fac	ility is ap	propriate				

Date/Time 11/19 1900hrs

8. Reviewed by Safety Advisor:



1. Incident Name Date 11&12/2/2019

Pigeon Valley Fire, Nelson 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 Monday 11th February

PIM FENZ Manager –	
PIM Liaison –	
Media Officer –	A. C.)
PIM Support –	
Social Media Manager, Community Liaison, Evac	c/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
Tactics Meeting 1100hrs
Media Briefing #2 1600hrs
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. Total fire ban and machinery ban still in place.
- 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, 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	, Ç	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/
70.	Fire and Emergency NZ
CO.	www.fireandemergency.nz
Social media	Main channel is: Nelson Tasman Civil Defence facebook page
	Fire and Emergency NZ facebook page
100	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

analis official inder the offici 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

Contar		Fire loca	tion				Sign	ed				1	
Sector		S-Super\					Sect					1	
Supervisors Supervisor name							ne/Loc	ation					
Report Shift Start		rt	Date				Shift Start Date				1		
(to be			Time						Time		1		
completed													
following shift	t)												K
Crews on you	r se	ctor											3
Crew			r	No. Equipment			d that c						
Name/Company		Name		Crew	Radios		C-saw		H-Tools		Other		
											*.(
Equipment us	ed				1.								
Pumps		Wajax 1			hrs		Acqual				hrs		
/h f h		Wajax 2			hrs		Watero				hrs	-	
(hrs for each		Wajax 3			hrs		No Dan	ns Use	a			-	
pump)		Wajax 4			hrs			11				-	
Hose Lengths		25mm	4 1		41mm				70m	m			
4lengths=1pl		s=1рк		3lengths=1pk		. 0	Soap Cap		C		-		
Suppressants	11	Foam		<u> </u>	Litres			<u> </u>	Soap	Сар			
Fire Appliance						102	naliz	Otho	r Cana	ments		-	
Registration	Ту	pe	Drive	r name			urly age on	Othe	r Com	ments			
						site							
						3.00							
					71								
												1	
												1	
				1								1	
			10									1	
												1	
		S										1	
Heavy Machin	nery	Used on	site]	
Registration Type				r name		Но	urly	Othe	r Com	ments		1	
)				Usa		ge on					
						site	•						
25													
]	
]	
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7]	
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]	

Incident Name	Operational Period	IAP COVER SHEET		
Pigeon Valley	Date 12/2/2019	RF199		
	Time 0700 - 1900			

INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan



- WEATHER & FIRE BEHAVIOUR FORECAST
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP & DOWNLOAD QR CODES
 - PUBLIC INFORMATION & MEDIA

Approved by Incident Controller:

Name





2000 11/2/19





Prescribed Burn Sector X1

1. Incident Name	2. Operational Period	SITUATION	REPORT
Pigeon Valley	Date 12/2/2019		RF201
	Time 0700 - 1900		
3. Location	4. Vegetation	5. World Grid Scale 84.	
Pigeon Rd, Eves Valley, Tasman	Forest/Scrub/Grass/Slash/	41°22'32.51"S	
	Other:	173° 1'31.81"E	

Latest information as at 1700 11/2/2019:

Drone crews were deployed overnight Monday 11th.

On night of Sunday 10th drone crew found a significant quantity of hotspots in Yankee sector. These hotspots are in the gully to the west of the Carter Holt Harvey Mill off Eves Valley Road. The drone crews also identified a large number of hotspots in Xray sector, particularly around X2, near the fire perimeter and in Alpha sector.

Yesterdays (11/2/2018) shift focused on strengthening control lines and with crews extinguishing hotspots identified on Sunday evening with the three drone crews. A flare up opposite Shirtcliff in Alpha Sector has helicopters working on it. Dangerous tree assessments are underway with initial priority on trees around structures. Heavy machinery is beginning to be demoblised in Zulu sector. Crew not involved in fire suppression and response augmentation roles have been actively seeking involvement in community engagement and reassurance roles. This interaction with the communities has been well received. Ten helicopters with two aerial platforms have been working on the fire ground today.

Temperatures over the fire ground this afternoon have been in the low to mid 20's, with a relative humidity hovering around 50% and now starting to increase. Winds have been from the NNE with the wind in the low teens, gusting in the high teens.

A new National Incident Management Team has formally taken over the fire at 1500hrs.

Wakefield re-entry was permitted from 1600 11/2/2018

6. Assessment

Evacuation operations were conducted Friday across Wakefield, based on predicted rates of fire spread in the event another breakout occurs and a front is generated. This was jointly decided upon 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 0030, Sat 9 Feb at night, when favourable wind and weather conditions helped slow further progression.

A huge effort was invested in this area Saturday and continued Sunday, to allow this part of the fire to progressively burn downhill 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 huge effort was invested in this area Saturday and continued Sunday, to allow this part of the fire to progressively burn downhill 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. These towers have had fire retardant applied to assist in protecting them and firebreak work continues to help with this. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site becomes 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. Extinguishment of this fire is nearing completion with a monitoring crew assigned overnight.

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.

A controlled burning operation was carried out successfully Sunday 10th on a section of the fire perimeter in the Xray Division to bring the burnt edge of the fire out to the fire break. This tactic is used to consume fuel which would be available to the fire if it started to run up slope due to a strong wind behind it.

7. Action taken

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

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

Helicopter resources are continuing to target 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 and on going extinguishment of hot spots.

Machinery and fellerbunchers 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 was forecasted for Sunday 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 other parts of the fire ground.

Thursday 7 Feb, we established a No-Fly Zone over the fire ground, this will be in place until Monday 11, 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Structure crews have been deployed to key areas around the fire and the Wakefield township to provide additional support if needed.

During Sunday evening, three drone crews were deployed initially tasked with assessing properties and assets with a view to increasing the likelihood of their owners return. They completed a full perimeter survey of Pigeon Valley Fire and Atawhai Rd Fire for hot spots to provide direction to ground operations for Monday. They have also confirmed no change in perimeter or area overnight.

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 98% 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 Saturday, 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 Sunday. The area has been measured by drones overnight and amounts to 3ha.

8. Factors

Extreme fire conditions. Limited non reticulated water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Winds will styed in the NE quarter today in the low to mind20s by afternoon

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua Sunday (10.02.19) with no concerns. Maori Liaison is now in place with the IMT.

Temperature and relative humidity is tracking as expected for today. Tonight, there is a chance of drizzle or at least RH in the 90% area. There is a forecast wind change to SW later tonight with winds shifting more west tomorrow.

9. Predicted Incident Development

eleasedunderline

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

Overnight fire activity would have eased with lower temps and RH in the 90% (possible drizzle). Winds are forecast to be SW today shifting further to the west during the day. Wind strengths will be in the range of 15 – 20kph with gusts in the 30s. The shift to the west will bring dryer conditions for a time with temps in the higher 20s and RH in the 40s. Fire behaviour will likely increase during this time with observations yesterday showing active flame when RH was in the 50s and temps were in the mid-20s.

SW through W winds today will put pressure on the E through NE sections of the fire perimeter, especially as the day warms up and gets dryer. The forecast increased windspeed during the afternoon will further heighten the pressure at these locations. With the warmer, dryer conditions it is likely that sub-surface hot spots will surface and show flame.

Through the week, the weather will be warm and dry with temperatures in the mid 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:	Date/Time:
Authorised by (Incident Controller)	1700hrs 11th Feb 2019

1. Incident Name	2. Operational Period	FIRE BEHAVIOUR FORECAST
Pigeon Valley	Date 12/2/2019	
	Time 0700 - 1900	

General Weather Overview

Tonight: NE , 10 – 15 km/h with gust easing and wind gradually turning SW around 11pm 10kph or less. There is a slight chance of drizzle between 2am and 6am or at least RH will be around 90%. Early morning temps near 15C

Tomorrow SW throughout the morning turning more westerly after 12pm. Wind in the morning 5-10kph increasing to 10-15kph during the afternoon. Wind could increase to 20-25kph with gusts in the 30s later in the day. Temps range 14-26 C and RH 95% dropping to the 40s

			1	Fire w	eather	@ 1 300h	irs					
Weather	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI	
Station												
Dovedale								, (
Feb 11 Actual	25	55	NNE	16	0	87	106	491	5.9	138	2	5
Feb 12	23	60	WNW	11	0	88	110	505	5.4	143	2	4
Forecast												

General Fire Behavior

Overnight fire behaviour will ease, increasing through the day Tuesday as the westerly brings warmer and dryer conditions.

	Specific Fire Behaviour	
Fuel Type	Forecast 1300	Peak ROS / Flame height
	ROS/ Flame Height	
	(No Suppression)	
Mature Pine	66 m/hr 2 m	693m/hr 6m
Grass (GC90%,C100%)	510m/hr 1.5m	2662m/hr 4m

Specific Activities

Night conditions will be good for blackout and mop-up. During Tuesday morning it will be a good opportunity to make progress while fire activity is relatively low. Later in the day the warmer and dryer conditions will increase fire behaviour.

SAFETY ADVISORY

Wind conditions in afternoon Tuesday will cause tree windthrow danger due to damaged root plates.

The SW wind increase later Tuesday will put pressure on the NE sectors.

RISK	FFMC	DMC	DC	ISI	BUI	FWI
MATRIX	Ignition Potential	Mop U	Jp Difficulty	Rate of Spread	Fuel Availability	Fire Intensity
LOW	0+	0+	0+	0+	0+	0+
MODERATE	75+	21+	101+	5+	16+	4+
HIGH	85+	31+	176+	9+	31+	14+
VERY HIGH	88+	41+	251+	13+	46+	24+
EXTREME	92+	46+	326+	16+	61+	29+

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 12/2/2019	OBJECTIVES
	Time 0700 - 1900	RF202

3. Overall Incident Objectives

- 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
- 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

- 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. Financial reporting established and continued
- 6. Create a recovery plan with community and stakeholders to assist post incident.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

Specific operational tasks for this shift to meet objectives

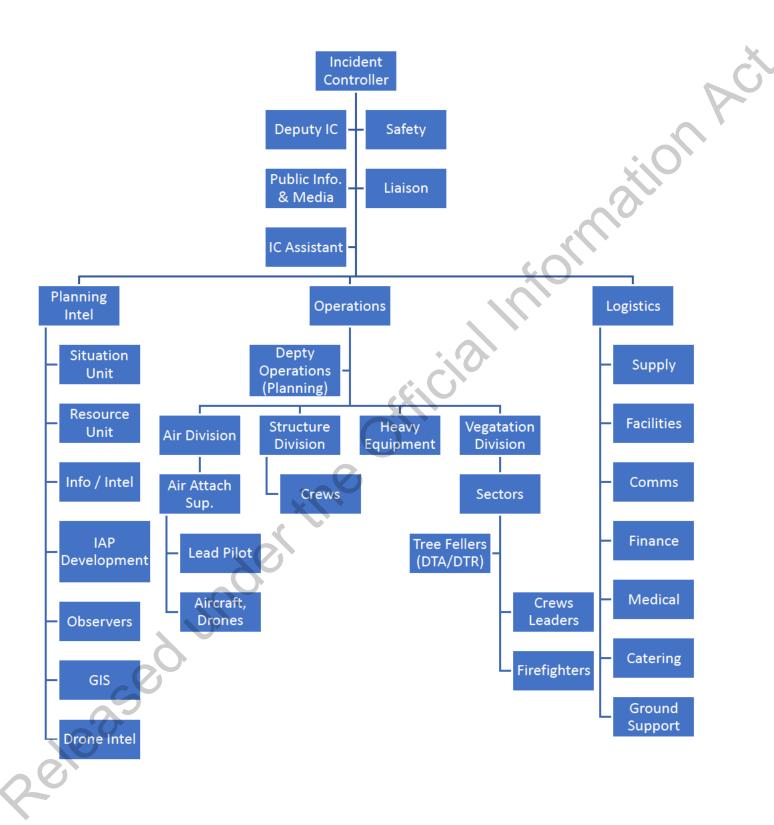
- Crew blacking out to 30m in 10m increments
- Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads
- Urban appliances tasked for protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot 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

Date/Time: 1900 11/2/19
Date/Time: 1900 11/2/19

	1. Incident Name	2. Operational Period		ORGANISATION	
		Date 12/2/2019		ASSIGNMENT	
		Time 0700 - 1900		RF203	
	3. Incident Control		Phone	Radio Ch	
	Incident Controller				
	meldent controller				
	Deputy IC				
	Public Information & Media				
	Safety Officer			.:(0)	
	Liaison Officer				
	4. Agency Representative		Phone	Radio Ch	
	Lead Agency	FENZ			
	Agency	Police			
	Agency				
	Agency	CDEM			
	Agency	CDEM Duty Phone			
	Agency	FENZ Urban Liason			
	5. Planning/Intell Section		Phone	Radio Ch	
	Planning/Intell Manager				
	Situations Unit				
	7 0.				
	SO.				
	Fire Behavious				
	7				
	(8)				
06	Resources Unit				
\					
•	Management Support Unit				
	Information Unit	:			
	Advance Planning Unit				

•			
Fire investigation			
6. Logistics Section		Phone	Radio Ch
Logistics Manager	(NMIT)		
Supply Unit (24 hr)	Duty Phones		
Supply Unit	Duty Phones		
Catering Unit	Duty Phones		
Facilities Unit	Duty Phones		.: <u>,</u> (O)
Finance Unit			V.0.
Communications Unit			
Medical Unit		60	
7. Operations Section		Phone	Radio Ch
Operations Manager	_		
Deputy Ops Manager	_		
Ops planning Manager	_		
Division Alpha	_		
Division Xray			
Division Yankee			
Division Zulu			
Division Atawhai	_		
Division Reserve			
Air Div Commander	-		
Air Attack Supervisor	-		
	-		
90	_		
Air Support Supervisor	_		
	-		
0	-	_	
8. Prepared by:		Date/Time: 19	

10. INCIDENT CONTROL STRUCTURE



9. Prepared by: Date/Time: 1900 11/2/19

1. Incident Name Pigeon Valley		2. Operational Period Date 12/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT
3. Division / Sector		4. Description		
ALPHA		Point of ignition to	Dove Saddle or	n Eder Rd
5. Division Commander	Affiliation	Phone		Radio Ch
				Command: Fire Crew: Simplex
6. Resources Assigned this	Period	l		
Sector		Supervisor	Crews	Radio Ch
Bulldozer D7			.0	
Excavator 20 T				
JNL + 4 PX				
Rai Silviculture 12px				
Doc South Canterbury 8px				
Tasman 2 tanker		.7		
NZDF RFA 3px		.0.0		
NZDF RFA 3px		- (//		
Dangerous Tree Assessor 2p	х			
A1 Blackening to 30m along Structure protection in S Hot spotting according to A2 Hotspot and blacken to ac Finish Containment down - DTA – Assess, mark, gps an around structures and with - Helicopters to support gro Alpha 1 - Div break to Ford	harp Valley o map and the hieve contains to A1/A2 d control (Elimi in 60m of road und crews. Divi	ment along perimeter inate or isolate) all haza s and 60m from the bla	ardous trees with	n a particular focus k ahead of ground crews.
Alpha 2 – From ford on Shar	•	ll Johnsons Rd interse		•
8. Division Communications	· · · · · · · · · · · · · · · · · · ·		Phone	Radio Ch
Operations Manager Air Division Commander				Fire 1/Cellphone

1. Incident Name Pigeon Valley		2. Operational Per Date12/2/2019 Time 0700 - 1900	DIVISION ASSIGNMENT	
3. Division / Sector		4. Description		20 \
XRAY		Division from Cut h	nill Johnsons Ro	I to CHH saw mill
5. Division Commander	Affiliation	Phone		Radio Ch
				Fire 5
6. Resources Assigned this P Sector Rai Silvi 4px	eriod	Supervisor	Crews	Radio Ch
Hawkes Bay Crew – 5px				40
Tapawera 4wd Tanker 02	Hawk	es Bay Crew		
716 smoke chaser	u			
D155 Dozer				
Nicholson Tanker	13,00	0 L		
Excavators x4				
Appleby Tanker		+_(
NZDF RFA x7px		/\C)		
Otago Crew + 5 PX		- (///		
Wainuiomata 9572 RFP 5px				
Dangerous Tree Assessor 2px	(
X1 Hotspot and blacken to a Machinery to continue wi X2 Hotspot and blacken to a Structure protection patro X3 Checking hotspots south of DTA – Assess, mark, gps and	dening fire b chieve contain ols of Eves Valley d control (Eli	reaks inment along perime Rd minate or isolate) all	eter hazardous tree	s with a particular focus
around structures and with perimeter that may have co- Helicopters to support ground request	aught embers und crews. Div	. To work ahead of g ision Commanders to o	round crews. call Air Attack or	n Channel VHF 4 to
Xray 1 – Cuthill/Johnsons Re Xray 2 - 5423000/1603000 t Xray 3 - Redwood Valley Rd	o intersection	of Redwood Valley	Rd and Red St	
8. Division Communications			Phone	Radio Ch
Operations Manager				Fire 1/Cellphone
Air Division Commander				Fire 4/Cellphone
11. Prepared By:			Date/Time	1900 11/2/19
II. Trepared by:				
1. Incident Name		2. Operational Per	iod	

		_				
		Time 0	700 - 1900		DIV ASSIGN	ISION MENT RF204a
3. Division		4. Desc	ription			
Yankee		Bennet	s Road to CHH	saw mill at	Eves Valley	
5. Division Commander	Affiliation		Phone		Radio Ch	

Bruce Forestry

Fire 3

6. Resources Assigned this Period			
Sector	Supervisor	Crews	Radio Ch
2x Excavator 20T	Taylors		
Bulldozer D8	Taylors		
Brightwater 5026 + 4px			
Rural Tanker Downers + 1px		4.	
Lake Rotoiti Smoke Chaser + 4 PX			
Ngatimoti 5325 Smoke Chaser +2			
Ngatimoti 5375 + 4px	. 0		
Wellington 1&2 RFA + 10 PX			
West Coast 8 PX And Smoke	.010		
Chaser and Tanker			
Tapawera 4wd tanker 01			

Y1

Blacken to achieve containment Hotspot as per thermal imaging

Dangerous Tree Assessor 2px

Y2

Protection of the mill and surrounding structures Significant hot spots perimeter sw of Mill Blacken to achieve containment

Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements

DTA – Assess, mark, gps and control (Eliminate or isolate) all hazardous trees with a particular focus
around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.

Yankee 1 – South edge of mill to div break at Zulu

Yankee 2 – Xray div break to south edge of the mill

8. Division Communications	Phone	Radio Ch
Operations Manager		Fire 1/Cellphone
Air Division Commander		Fire 4/Cellphone
12. Prepared By:	Date/Time 1900	11/2/19

1. Incident Name Pigeon Valley	Pigeon Valley		Date 12	2. Operational Period Date 12/2/2019 Time 0700 – 1900		DIVISION ASSIGNMENT RF204a
3. Division 4. Description			ription			
Zulu			Point o	f ignition to C	HH saw mill	
5. Division Commander	Affili	ation		Phone		Radio Ch
						Fire 2
6. Resources Assigned this Posterior	eriod		Super	visor	Crews	Radio Ch
4x Excavator 20T		TLC				
D65 Dozer						
Watertanker						
DOC Blenheim - USA 1 12px					¢.C	
Doc Hauraki 5px						
Pumicelands 7px						
Ashburton 9011 4px						
Peel Forest Rural Tanker						
Timaru Smoke Chaser 1						
Timaru Smoke Chaser 2 Z1 Protection of cell tower w Maintain mobility in this s				eak out (Priori	ty area).	
Z2 Blacken perimeter into McCalls/Teapot Valley/Bennets Rd Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.						
8. Division Communications					Phone	Radio Ch
Operations Manager						Fire 1/Cellphone
Air Division Commander						Fire 4/Cellphone
13. Prepared By:					Date/Time	1900 11/2/19

1. Incident Name Pigeon Valley			2. Operational Period Date 12/2/2019 Time 0700 – 1900	
3. Division		4. Description	l	
ATAWHAI				
5. Division Commander	Affiliation	Phone	2	Radio Ch
	FENZ			
6. Resources Assigned this P Sector	eriod	Supervisor	Crew	s Radio C
				100
			٥.(
Dispatch smoke chaser for a	ssessment/	continue not spot	ting if required	
8. Division Communications			Phone	e Radio C
Operations Manager				
Air Division Commander				

1. Incident Name	2. Operational Period	DIVISION
Pigeon Valley	Date 12/2/2019	
	Time 0700 – 1900	ASSIGNMENT
		RF204a
3. Division	4. Description	
STRUCTURE	Functional division across Pig	geon Valley Incident

5. Division Commander	Affiliation	Phone	Radio Ch	

6. Resources Assigned this Peri	od		
Sector	Supervisor	Crews	Radio Ch
Nelson 212 4px			
Nelson 213 4px		XO.	
Trag012 4px			
Nelson 2118 2px			
1 executive officers			
Newlands 291 4px			
Wainuiomata 441 4px			
Richmond 331 4x	Auckland 1		

7. Division Assignment/Special Instructions

PROTECTION

- Coordinate urban requirements into divisions
- Urban resources deployed into divisions are to work under direction of Div sup

NB Additional resources are available through firecom if required

8. Division Communications	Phone	Radio Ch
Operations Manager		Fire 1/Cellphone
Air Division Commander		Fire 4/Cellphone
15. Prepared By:	Date/Time 1900	11/2/19

Pigeon Valley		4	Operational Peri	od	[DIVIS
i igeon valley			te 12/2/2019 ne 0700 – 1900		ASSI	GNM
3. Division		4. 1	Description			
INITIAL ATT	ACK	Fur	nctional division	across Pigeon	Valley Incid	dent
5. Division Commander	Affilio	ation	Phone		Radio Ch	
6. Resources Assigned this Sector	Period	Su	pervisor	Crews	5	Radio
Brightwater 5071 via 111						
Hira Smoke Chaser via 111					30	
Upper Moutere VFB				4.0		
required. – Must I Smoke Chaser req	nave loca	l knowledg	e •			port
required. – Must I	nave loca	l knowledg	e •			port
required. – Must I • Smoke Chaser req 8. Division Communication	have loca juired 180	l knowledg	e •			Radio
required. – Must I	have loca juired 180	l knowledg	e •	Concert	Fire	Radio e 1/Cell

1. Incident Name Pigeon Valley 2. Operational Period Date 12/2/2019 Time 0700 - 1900 3. Division 2. Operational Period DiVISION ASSIGNMENT RF204a

PROPERTY ASSESSMENTS

Functional division across Pigeon Valley Incident

5. Division Commander	Affiliation	Phone	Radio Ch

6. Resources Assigned this Period Sector Supervisor Crews Radio Ch FENZ Liaison

7. Division Assignment/Special Instructions

- 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 statues 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		Fire 1/Cellphone
Air Division Commander		Fire 4/Cellphone
17. Prepared By:	Date/Time 1900	11/2/19

1. Incident Name	2. Operation	al Period	Date	e 12/2/2019	AIR OPERATIONS PLAN
Pigeon Valley			Time	e 0700 - 1900	RF208
3. Personnel and Communications Position	Nam	e Af	filiation	Phone	Radio Chan
Air Div Commander					
Air Attack Supervisor					Fire 4
					<u> </u>
Air Support Supervisor					
Lead Helicopter Pilot					
Lead Fixed-Wing Pilot				CK	
5. Location of Filling Points/Service	e Areas				
Name					Grid Reference
Heli base		-41.31777, 137.10			
Fixed wing 6. Safety Notes / Hazards / Radio (Coverage Limitati	41 22 39.9 S 173 0	5 04.6 E		
		Olis			
 7. Air Operations Special Equip or Retardent filling crew (Fixe Bryant Earthworks - 2x dip trucks 1x dip truck and traile 5x support tankers 	ed Wing) -	JIU GIER			
8. Prepared By:	-0	Date/Time	e: 1900 11/2/	19	
26/6	350				

Company Name	Aircraft Type	Rego/Call Sign	Pilots Name	Bucket Size	Contact Number	Availability
Rotoary	,					
Helicharter	500D	нхх		500L	2	Available
Garden City Heli	В3	IHL		1100L		Available
	вк	IVB		1100L		Available
Reid Heli	B2	HPE		900L		Available
	FX2	HEX		1000L		Available DS
	B2	IOR		Platform		Available
	B2	наа		1000L		Available
Southern Heli Lift	UH-1L	HUE		1500L		
Marlborough Heli	Long Ranger	НТА		650L		Available
Skyworks	В3	HWW	· ·	1050L		Available
Anderson	B2	НКА		1000L		Available
Murchison Heli	ВА	ILW		680L/Platform		Available
Drone			X			
Interpine 2px	RPRS/UAV	PINES1				
Interpine 2px	RPRS/UAV	PINES2				
USAR 3px	RPRS/UAV	Romeo1				
USAR 3px	RPRS/UAV	Romeo2				
8	0/6926					

1. Incident Name		2. Operational	Period	COMMUNICATIONS	
Pigeon Valley		Date 12/2/2019 Time 0700 - 19		PLAN RF205	
3. Radio Channels Assigned To	Function	Channel	Frequency	System	
Command	Tunction	Waimea 1	152.55000 RX		1
			154.33125 TX		
Division Alpha	Operational	Fire 1	143.8250	00	
Division Zulu	Operational	Fire 2	143.7875	50	•
Division Yankee	Operational	Fire 3	140.9250	00	
Division Xray	Operational	Fire 1	143.8250	00	
Air Ops -Heli	Operational	Fire 4	140.6125	50	
Air Ops – Fixed Wing	Operational	Fire 10	140.9875	50	
Emergency		Waimea 1	152.55000 RX	, ÇO	
			154.33125 TX		
Resources		Waimea 1	152.55000 RX	*	
Sino Com-		Fine Come	154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if d	ifficult coms to FCP	
4. Telephone Assigned To	Landline	Cell phone	Fax	Comments	
Emergency		111			
Regional Command Centre (RCC)	5				
6. Other (e.g. email, Sa	tphone, etc)				
Resources	resources@FE	<u>1</u>			
Safety	safety@FENZN	lelsonIMT.com			
Logistics	logistics@FEN	ZNelsonIMT.com			
PIM	pim@FENZNel	sonIMT.com			
Planning	planning@FEN	ZNelsonIMT.com			
Forward Control Point (FCP)	icu.nelson@fir	eemergency.nz			
Situation / GIS / Intel	situation@FEN	IZNelsonIMT.com			
Operations	operations@F	ENZNelsonIMT.co	<u>m</u>		
Photos and imagery	Join Facebook	site; Pigeon Vall	-	https://www.facebook.com/ groups/1924082991035550/	
	INTERNAL CON	VIIVIS	[3. 5 4. 5 5/ 2 5 2 5 2 5 2 5 5 5 5 7	

-		SAFETY PLAN RF209 Control Point for both safety check and ag all relevant information) via line
700 - 1900 he fire ground through the		Control Point for both safety check and
-		
-		
	1	
Fire Orders		Watchouts
ons and forecasts what your fire is doing at		size is unknown (no size up).
s.		y zones and escape routes not identified.
Base all actions on current and		miliar with weather and local factors
expected fire behaviour of the fire. Identify escape routes and safety zones and make them known.		encing fire behaviour. communications link with crew members
		apervisor.
		uctions and assignments not clear. ther is getting hotter, drier and relative
ones and make them		idity dropping
	ones and make them	7. Weat

10. Working uphill or down wind of a fire

11. Working on a steep slope 12. Working in rugged terrain

15. Walking through hot ashes

18. Working near power lines

19. Working near machinery

21. Working around trees or spars

20. Working with aircraft

13. Can't see main fire

16. Working alone

17. Getting tired

14. In unburnt vegetation

6. Stay alert. Keep calm, Think

communication with your

8. Give clear instructions and

9. Maintain control of your

crew/s at all times.

20102500

crew/s, your supervisor and

ensure they are understood.

10. Fight fire aggressively having

provided for safety first.

clearly, act decisively.

7. Maintain prompt

adjoining crews.

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
- Dangerous tree assessors Ensure all crew members are competent and equipped for task (including PPE).

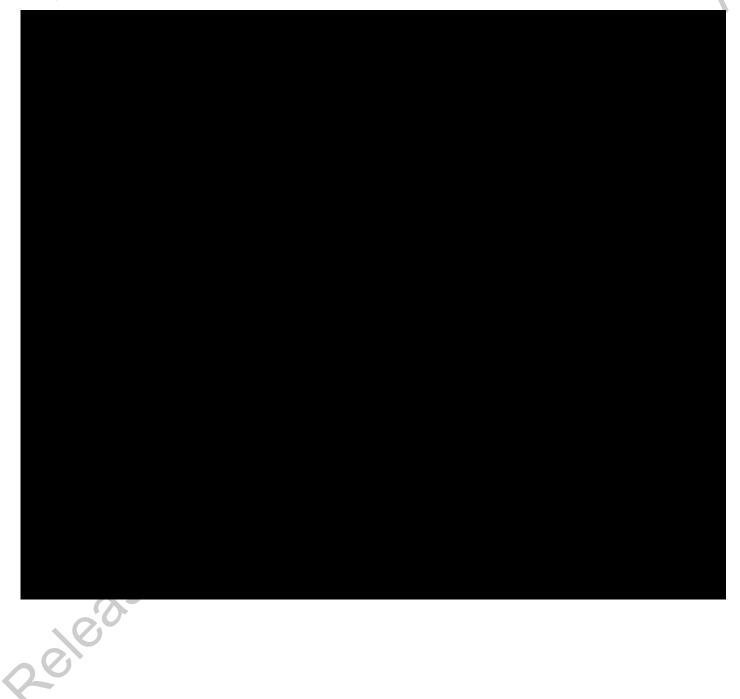
5. Prepared By:	Date/Time 1900 11/2/19
2580	
660	

1. Incident Name Pigeon Valley	Date	perational Pe 2 12/2/2019 2 0700 - 1900	riod		MEDICAL PLAN			
3. First Aid Station Name	Location	Pho	one/Radio nannel		Paramedics available at Station			
Each Crew must have available one First aid Level 1 Certified	Each crew					:.0		
Nelson 91 Ambulance	Forward command pos			1 Paramedic	1 Paramedic and 1 EMT			
				KOL				
4. Transportation Ambulance Service	Address				Paramedics available with Ambulance			
Ambulance St Johns	Closest unit	111		Yes				
5. Hospitals Hospital Name	Address	Phone	Road	Travel Time Air	Burn Unit	Heli Pad		
Nelson Public Emergency	Waimea Rd.	111	27m	4min	у	У		
Hutt Hospital (Burn Unit)		111	n/a	40min	Υ	У		
6. Special Emergency Procedure St John will transport patients to		Ith facility is a	ppropriate					

1. Incident Name	2. Operational Period	MAPS
Pigeon Valley	Date 12/2/2019	
	Time 0700 - 1900	RF

^{3.} Download Avenza Maps app on iOS and Android, Scan the Following Codes to Access Digital Maps you can navigate with. These codes generally do no change, therefore to get tomorrow's map you can scan the old map code. Present a smartphone camera to see these codes or scan using QR code reader app.

QR CODES FOR MAP DOWNLOAD



1. Incident Name	2. Operational Period
Pigeon Valley Fire, Nelson	12/02/2019 – 0700 to 1900

FENZ Stakeholders and Audience Groups

Organisation	Detail		Name	Contact Info			
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regulupdates – committed to updates daily a 0830hrs, 1100 1500hrs and 1830hrs. Additionally a phone call even	4x at hrs,	RCC Christchurch	RCC R4 & R2, NCC, , Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team			
Evacuated Residents	Community Meeting – nex on Monday 11 @ 5.30pm, Ap School.	th Feb	Various	Comms through social media, Civil Defence website, welfare team and media.			
Interested Public	Local community (not evacuated) a wider		Various	Social media posts, Civil Defence website, FENZ website, media outlets			
Cordons	Managed by Po kept updated v PIM team		Ö	Police Liaison in IMT			
IMT and Support Staff	Information to their roles	help	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps			
Media Outlets	Media Outlets Require full-tir management a contact						
Direct message dist	tribution	Detail	s of the specifi	c 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		Welfa	re Helpline – 03	3 543 8400			
Information points			ns (located as p				
Community contact	cs/meetings		•	Monday 11 th February – details TBC.			
Media message dis	tribution	Specif	ic stations or p	ublications			
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.

Leleased under the

1. Incident Nam	ne					2. Ope	erational Period							
Pigeon Valley Fi	re, I	Nelson		12/02/2019 -			9 –	- 0700 to 1900						
3. Complete the	foll	lowing rep	ort at e	end of sh	ift, a	nd had	in to	che	ck out	point.				
Sector		Fire loca							Signe					
Supervisors		S-Super\	visor						Sect		_4:			X.
Report		name Shift Sta	rt	Date						e/Loca Start	ation	Date		~ C
(to be complete	d	Silire Sta		Time					Silit	Juit		Time		
following shift)														,
Crews on your s	sect	or												
Crew		C-Leade	r	No.	No. Equipment used		d t	that crew supplied						
Name/Company	/	Name		Crew	Ra	dios		C-	saw		Н-То	ols	Other	
													10	
F	<u> </u>	41									81			
Equipment used Pumps	a on	Wajax 1			hrs			٨٨	a u a li	to 1	igoplus	>	hrs	
Fullips		Wajax 1			hrs			Acquali					hrs	
(hrs for each		Wajax 2			hrs			_	Waterous 1 No Dams Used		<u>Ч</u>		1113	
pump)		Wajax 4			hrs				TTO DUING OSCU					
Hose Lengths		25mm				mm		1	70		70m	m		
Trose Lengths		4lengths	s=1pk		3lengths=1pk		1pk				7 31111			
Suppressants		Foam	•	Litres						Soap	Сар			
Fire Appliances	Use	d on the	sector											
Registration	Туј	ре	Drive	r name		21	Ho	urly	/	Othe	r Com	ments		
							Usa	_	on					
							site	<u> </u>						
				0										
			0											
														1
Heavy Machine	ry U	Jsed on si	ite											
Registration	Tyl	pe	Drive	r name			Ho	urly	/	Othe	r Com	ments		
05							Usa		on					
.0.0							site)						
. .														
														1
<u> </u>														

	T	
Incident Name	Operational Period	IAP COVER SHEET
Pigeon Valley	Date 12&13/2/2019	RF199
	Time 1900 – 0700	
INCIDI The items checked be SITUATION REPORT WEATHER & FIRE BEHALE FORECAST INCIDENT OBJECTIVES ORGANISATIONAL LIST SECTOR ASSIGNMENT DIVISIONAL ASSIGNMENT DIVISIONAL ASSIGNMENT COMMUNICATION PLAN SAFETY PLAN MEDICAL PLAN FIRE MAP & DOWNLOA PUBLIC INFORMATION Approved by Incident Controller: Name	IAP COVER S 8.13/2/2019 00 – 0700 ENT ACTION PLAN NOW are included in the incident Action Plan VIOUR NT N AD QR CODES & MEDIA Signed Date/Time 1800 12/2/1	
Approved by Incident Control	ler: Signed	Date/Time
Name		1800 12/2/19



1. Incident Name	2. Operational Period	SITUATION	REPORT
Pigeon Valley	Date 12/2/2019		RF201
3. Location	Time 1400 - 1900 4. Vegetation	5. World Grid Scale 84.	
Pigeon Rd, Eves Valley, Tasman	Forest/Scrub/Grass/Slash/ Other:	41°22'32.51"S 173° 1'31.81"E	
			Silo)
	Settine		
	Set tine		
	Servine		
	Set tine		

Latest information as at **1400** 12/2/2019:

A firefighter has been transported to hospital by St John Ambulance with dehydration. St John Ambulance have advised that firefighters should be drinking electrolyte drinks rather than energy drinks. The Safety Advisor has notified crews to drink electrolyte drinks.

A new National Incident Management Team formally took over the fire at 1500hrs on 11th of February.

Re-entry for residents in the Wakefield area was approved yesterday (Monday 11/02/2019) by Civil Defence Emergency Management and facilitation of Wakefield residents back into their property has been undertaken by Police and NZDF.

Four drone teams were deployed onto the fire ground last night. The entire perimeter of Pigeon Valley Fire and Atawhai Fire were surveyed. A large quantity of hotspots were identified in Sector X-Ray and Yankee. A smaller number of hotspots have been located in Sector Alpha and Zulu.

As the cloud cover has decreased over the past week, we have managed to get more accurate measurements of the fire ground due to digitally enhanced satellite images. This means that the latest data shows the Pigeon valley Fire is about 2,400 ha, with a perimeter of 33.5 km. This latest data shows that although the fire perimeter is larger than initially estimated, there is a small decrease in overall hectares burnt. (Note: Fire edge is now more defined and maps have been updated to reflect this.) Please note, that as we work to get more accurate images and data that this information will be subject to change.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control. However, a number of hotspots have been identified overnight.

Note: State of emergency extended to 20th Feb.

Division X-Ray - Working on known hotspots, and cold trailing around the properties.

Division Yankee – Dangerous tree assessments are continuing in this area by assessors. Crews continuing to work multiple hotspots within the Division.

Division Alpha – Crews are continuing to blackout and extinguish hotspots.

Division Zulu - Crews are continuing to blackout and extinguish hotspots.

Atawhai Fire – Crews are extinguishing hotspots that were identified on Monday night (12/02/2019).

Dangerous trees are being identified and marked with flagging tape and GPS location marked. These dangerous trees have been passed on to Operations for actioning.

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.

Tuesday 12 Feb - 0700-01900 day resourcing will be:

• 16 four person and one 5 person vegetation crews.

- 9 Smoke chasers
- 4 4x4 Tankers
- 6 Bulk water tanker
- 8 Rural appliances
- 8 Excavators
- 5 Dozers
- 1 Feller buncher
- 4 Division Supervisors
- 16 Tree Assessors
- 2 Urban crews
- 9 Helicopters
- 3 Drone Crews

Tuesday 12 Feb - 1900-0700 - night resources will be:

zeleasedunderline

- 8 crews four person crews
- 3 smoke chasers
- 4 4*4 Tankers
- 3 bulk water tankers
- 9 rural appliances
- 5 Excavators
- 2 Dozers
- 2 feller buncher's
- 4 Division supervisors

6. Assessment

As at 0800hrs on 12 Feb, a large scrub/forest fire is currently burning, estimated to be over 2400ha with a perimeter of 33.5km extending primarily in the Pigeon Valley area and north western boundary.

Values at risk are life, livestock 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 fire spread in the event another breakout occurs and a front is generated. This was jointly decided upon 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 0030, Sat 9 Feb at night, when favourable wind and weather conditions helped slow further progression.

A huge effort was invested in this area Saturday and Sunday, to allow this part of the fire to progressively burn downhill 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. These towers have had fire retardant applied to assist in protecting them and firebreak work continues to help with this. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site becomes damaged.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control operations continue with two crew and a field observer on site. Extinguishment of this fire is nearing completion with a monitoring crew assigned overnight.

A controlled burning operation was carried out successfully on Sunday on a section of the fire perimeter in the Xray Division to bring the burnt edge of the fire out to the fire break. This tactic is used to consume fuel which would be available to the fire if it started to run up slope due to a strong wind behind it.

7. Action taken

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 was forecasted for Sunday 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 other parts of the fire ground.

Thursday 7 Feb, we established a restricted air space over the fire ground and it has been extended out to Sat 16th 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Structure crews have been deployed to key areas around the fire and the Wakefield township to provide additional support if needed.

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

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.

2 crews currently observing the fire in the field. 3 crews from tomorrow will be observing and verifying hot spots in the field.

Look to increase crew resources for blacking out operations. 10 m 1st then work through to 20 and 30

8. Factors

Extreme fire conditions. Limited non reticulated water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Winds will be in southwest through to west

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua Sunday (10.02.19) with no concerns. Maori Liaison is now in place with the IMT.

Temperature and relative humidity is tracking as expected for today with 1.4mm of rain recorded overnight at Nelson.

9. Predicted Incident Development

Weather forecast 12th Feb for Pigeon valley

Forecast for Pigeon Valley area

Updated forecast for the Pigeon Valley area. 12:30

11 am - 6 pm Tuesday

Rainfall: None expected.

Sustained wind: WSW becoming WNW by 2:00 pm and increasing to 10-15 km/h. Increasing further to

15-20 km/h after 6:00 pm.

Wind gusts: From 12:00-4:00 pm gusts of up to 40-45 km/h are expected. From 4:00 pm onward there is a risk of gusts up to around 50 km/h. Higher gusts of up to 55 km/h are possible over the highest

terrain in the fire area.

Temperature: Currently 20°C, increasing to a maximum near 25°C at 4:00 pm. **Humidity:** Near 65% currently, decreasing to an afternoon minimum of 45-50%.

Winds are forecast to be SW today shifting further to WNW during the day. Wind strengths will be in the range of 15 – 20kph with gusts in the 30s. The shift to the west will bring dryer conditions for a time with temps in the higher 20s and RH in the 40s. Fire behaviour will likely increase during this time with observations yesterday showing active flame when RH was in the 50s and temps were in the mid-20s.

The forecast increased windspeed during the afternoon will further heighten the danger of unstable trees caused by root plates being burnt.

Wednesday (13th): Sunny and warm. High temps mid-20s. Lowest RH in the 40s. Southwest wind 20 km/h gusts 30 km/h through to about midday. Changes northeast 15 km/h around midday, rises to 25 km/h gusting 35 km/h afternoon hours. Winds become light easterly in evening. No rain.

Thursday (14th): Southwest wind 10 km/h early hours, then northeast wind kicks in around 10:30 am (around 15 km/h), rises to 25 km/h gusts 35 km/h for afternoon hours. Winds ease off again evening. Top temps mid-20s, and lowest RH about 50%. No rain.

10. Prepared by:		Date/Time:	
Authorised by	(Incident Controller)	1400hrs 12th Feb 2019	
-0	5		
25			
100			
26.			

1. Incident Name	2. Operational Period	WEATHER AND FIRE
Pigeon Valley	Date 11&12/2/2019	BEHAVIOUR FORECAST
	Time 1900 – 0700	

General Weather Overview

Tonight: NE, 10 – 15 km/h with gust easing and wind gradually turning SW around 11pm 10kph or less. There is a slight chance of drizzle between 2am and 6am or at least RH will be around 90%. Early morning temps near 15C

Tomorrow SW throughout the morning turning more westerly after 12pm. Wind in the morning 5-10kph increasing to 10-15kph during the afternoon. Wind could increase to 20-25kph with gusts in the 30s later in the day. Temps range 14-26 C and RH 95% dropping to the 40s

Fire weather @ 1300hrs												
Weather	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI	
Station												
Dovedale												
Feb 11 Actual	25	55	NNE	16	0	87	106	491	5.9	138		25
Feb 12	23	60	WNW	11	0	88	110	505	5.4	143		24
Forecast												

General Fire Behavior

Overnight fire behaviour will ease, increasing through the day Tuesday as the westerly brings warmer and dryer conditions.

Specific Fire Behaviour						
Fuel Type	Forecast 1300	Peak ROS / Flame height				
	ROS/ Flame Height (No Suppression)					
Mature Pine	66 m/hr 2 m	693m/hr 6m				
Grass (GC90%,C100%)	510m/hr 1.5m	2662m/hr 4m				

Specific Activities

Night conditions will be good for blackout and mop-up. During Tuesday morning it will be a good opportunity to make progress while fire activity is relatively low. Later in the day the warmer and dryer conditions will increase fire behaviour.

SAFETY ADVISORY

Wind conditions in afternoon Tuesday will cause tree windthrow danger due to damaged root plates.

The SW wind increase later Tuesday will put pressure on the NE sectors.

RISK	FFMC	DMC	DC	ISI	BUI	FWI
MATRIX	Ignition Potential	Mop l	Jp Difficulty	Rate of Spread	Fuel Availability	Fire Intensity
LOW	0+	0+	0+	0+	0+	0+
MODERATE	75+	21+	101+	5+	16+	4+
HIGH	85+	31+	176+	9+	31+	14+
VERY HIGH	88+	41+	251+	13+	46+	24+
EXTREME	92+	46+	326+	16+	61+	29+

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 12&13/2/2019	OBJECTIVES
,	Time 1900 – 0700	RF202

3. Overall Incident Objectives

- 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

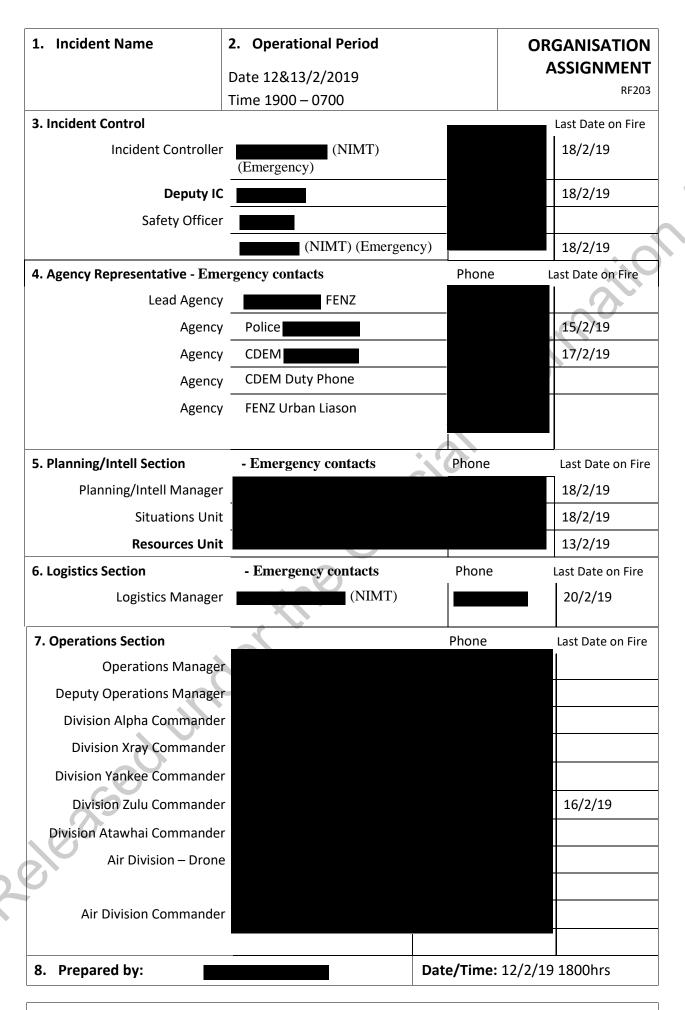
4. Strategies to meet objectives

- 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. Financial reporting established and continued
- 6. Create a recovery plan with community and stakeholders to assist post incident.
 - Consider operation delivery to minimise impacts in support of the recovery plan.

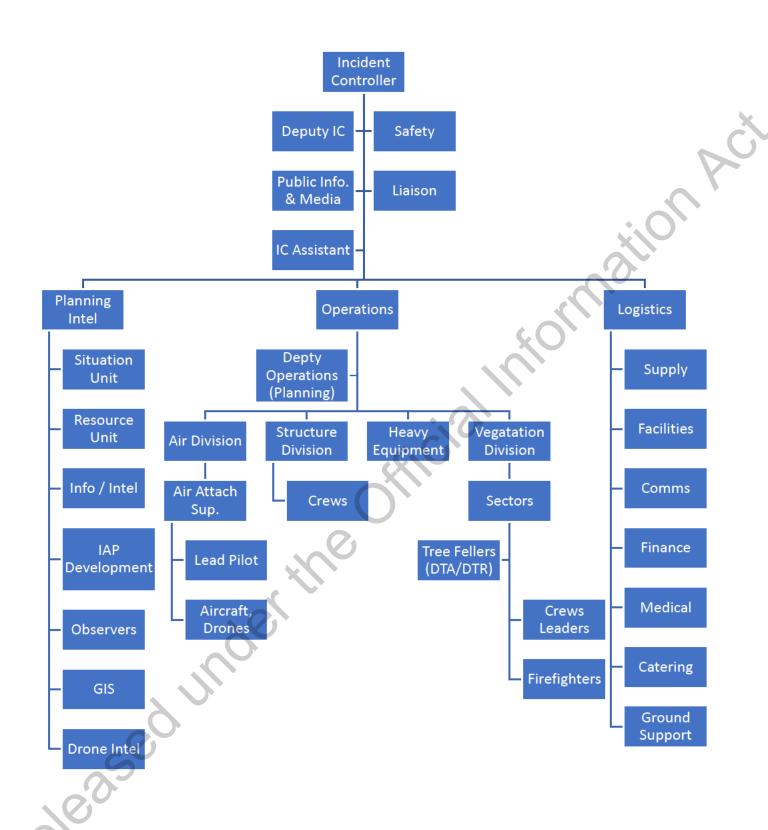
5. Specific operational tasks for this shift to meet objectives

- 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 Drons Rd, Teapot Valley, Pigeon Valley and Mill.
- Create and strengthen firebreaks focusing on Heines and Foxes Rd. New breaks on Golf Rd linkages
- RPA/UAV/Drone hotspot and perimeter surveys in Pigeon, Atawhai and Rabbit Island if time allows

5. Prepared by:	Date/Time: 12/2/19 1400hrs



10. INCIDENT CONTROL STRUCTURE



9. Prepared by: Date/Time: 1800 12/2/19

1. Incident Name Pigeon Valley	Date 12&13	2. Operational Period Date 12&13/2/2019 Time 1900 – 0700			
3. Division	3. Division 4. Descrip				RF
Alpha		Point of igni	tion to Dove Sad	dle on Ed	ler Rd
5. Division Commander	Affiliation	Pho	ne	Rad	lio Ch
6. Resources Assigned this I Sector	Period	Supervisor	C	rews	Last Date on
NFM 10px Crew					70
Thermal Imaging crew 2px					
Taylors Excavator1				KO)	
Taylors Excavator1			- (
Taylors Dozer1					
Taylors Dozer2			• 0		
Taylors Tanker1					
Taylors Tanker 2		CX			
 A1 Patrol/protect struct map. Blackout to 10m from. A2 Blackout to 10m from. Alpha 1 - Div break to Ford. Alpha 2 - From ford on Share. 	Zulu1/Alpha1 Forestry Rd to on Sharps Rd	boundary towar owards Alpha2/X	ds Forestry rd		
8. Division Communications				one	Radio Ch
Operations Manager					

1. Incident Name Pigeon Valley	2. Operational Perio Date 12&13/2/2019 Time 1900 – 0700		19	DIVISION ASSIGNMENT
3. Division		4. Description		111 2046
Xray		Division from Cut	hill Johnsons Ro	d to CHH saw mill
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this Sector	Period	Supervisor	Crews	Last Date on Fire
Buck Forestry 4px				
NFM3 4px			٥.(
2x 4x4 Tankers NFL01, NFL0)2			
5475 Rural Appliance				
Appleby Tanker				
Brightwater 5071 – Rural Appliance		.c.C		
RD JD850 Dozer				
Feller Buncher				
Thermal Imaging crew 2px				
Xray 1 -Continue widening contain -Patrol and protect structure mapblackout to 30m from Alpl Xray 2&3 blackout to 30m Xray 1 – Cuthill/Johnsons I Xray 2 - 5423000/1603000 Xray 3 - Redwood Valley I Redwood Valley I Division Communication Operations Manager	es. Keep mobina2/Xray1 book Red Stag Land Red intersection to intersection and Red Stag Land Red Stag	undary towards Red Sole to Yankee 2 Bound on (new Div break) to on of Redwood Valle	Stag Lane lary o 5423000/1603 y Rd and Red S	000 tage lane
7 ,				

1. Incident Name Pigeon Valley		Date 12&13/2/20	2. Operational Period Date 12&13/2/2019 Time 1900 – 0700			
3. Division		4. Description				
Yankee	Bennets Road to CHH saw mill at Eves Valley					
5. Division Commander	Affiliation	Phone		Radio Ch		
FENZ Urban Exec Officier						
6. Resources Assigned this Sector	Period	Supervisor	Crews	Last Date on Fire		
Mt Lyford 4wd Appliance						
Excavator						
Dozer			<u> </u>	3 \		
Feller buncher						
Thermal image crew 2px						
Concentrate on clearing hot Blackout to 10m perimeter	spots on Eder	rd as per hotspot ma	p (2x Crews)	Hotspotting as per map. ds Yankee/Zulu2		
Concentrate on clearing hot Blackout to 10m perimeter	spots on Eder from Xray/Ya	e resources for imme rd as per hotspot ma nkee boundary head	p (2x Crews)			
Concentrate on clearing hot Blackout to 10m perimeter boundary Yankee 1 – South edge of n Yankee 2 – Xray div break	spots on Eder from Xray/Ya nill to div brea to south edge	e resources for imme rd as per hotspot ma nkee boundary head k at Zulu	p (2x Crews) ing south towar	ds Yankee/Zulu2		
Concentrate on clearing hot Blackout to 10m perimeter boundary Yankee 1 – South edge of makee 2 – Xray div break 8. Division Communication	spots on Eder from Xray/Ya nill to div brea to south edge	e resources for imme rd as per hotspot ma nkee boundary head k at Zulu	p (2x Crews)	ds Yankee/Zulu2		
Concentrate on clearing hot Blackout to 10m perimeter boundary Yankee 1 – South edge of n Yankee 2 – Xray div break	spots on Eder from Xray/Ya nill to div brea to south edge	e resources for imme rd as per hotspot ma nkee boundary head k at Zulu	p (2x Crews) ing south towar	ds Yankee/Zulu2		
Concentrate on clearing hot Blackout to 10m perimeter boundary Yankee 1 – South edge of makee 2 – Xray div break 8. Division Communication	spots on Eder from Xray/Ya nill to div brea to south edge	e resources for imme rd as per hotspot ma nkee boundary head k at Zulu	p (2x Crews) ing south toward	ds Yankee/Zulu2		

3. Division Zulu 5. Division Commander Affiliation Phone 6. Resources Assigned this Period Sector Mitchell Silviculture 6px Bears smoke Chaser Marahau Smoke chaser Rural Appliance 5075	on to CHH saw mill	Radio Ch Last Day 16/2/19 Last Date on 16/2/19
5. Division Commander Affiliation Phone 6. Resources Assigned this Period Sector Supervisor Mitchell Silviculture 6px Bears smoke Chaser Marahau Smoke chaser	2	Last Day 16/2/19 Last Date on
6. Resources Assigned this Period Sector Supervisor Mitchell Silviculture 6px Bears smoke Chaser Marahau Smoke chaser		Last Day 16/2/19 Last Date on
Sector Supervisor Mitchell Silviculture 6px Bears smoke Chaser Marahau Smoke chaser	Crew	Last Date on
Sector Supervisor Mitchell Silviculture 6px Bears smoke Chaser Marahau Smoke chaser	Crew	
Mitchell Silviculture 6px Bears smoke Chaser Marahau Smoke chaser	Crew	
Bears smoke Chaser Marahau Smoke chaser		16/2/19
Marahau Smoke chaser		20
Rural Appliance 5075		
	X	3
Thermal image crew 2px		
Thermal image crew 2px	• 0	
Zulu2 Blackout to 30m from Yankee1/Zulu2 boundary hea Zulu 1 – Alpha div break to Barton Lane	ading south	
Zulu 2 – Barton lane to Yankee div break.		
8. Division Communications	Phone I	Radio Ch
Operations Manager		
0		
13. Prepared By:	Date/Tim	ne 12/2/19 1700hrs

1. Incident Name		2 One	rational Perio	nd	
Pigeon Valley		_			DIVISION
rigeon valley			2&13/2/2019	•	ASSIGNMENT
		Time 1	900 – 0700		RF204a
3. Division		4. Desc	cription		
Atawhai					
5. Division Commander	Affiliation		Phone		Radio Ch
6. Resources Assigned this Po	eriod		1		×
Sector	ĺ	Super	visor	Crews	Last Date on Fire
Night					
None					
				c. (
				0	
			- C. (C)		
		2			
7. Division Assignment/Spec			atenat man		
Continue mopping up identifi	leu notspots	as per no	otspot map.		
	10				
8. Division Communications				Phone	Radio Ch
Operations Manager					1
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					-
14. Prepared By:				Date/Time	2 12/2/19 1700hrs

1. Incident Name			2. Operational P	eriod		DIVISION
Pigeon Valley			Date 12&13/2/2	019		
			Time 1900 – 070	0	ASSIGNN	
3. Division			4. Description			RF204a
Structure protec	ction					
5. Division Commander	Affilio	ation	Phone		Radio	Ch
						\(\sigma\)
6. Resources Assigned this	Period					.0
Sector			Supervisor	Crews	5	Last Date on Fire
Executive Officer						Co
Nelson 212 4px						
Nelson 213 4px				6	O ,	
Newlands 291 4px						
Wainuiomata 441 4px						
 The Structure prot rotating and mana The above structure Manager on a shift They will report to They are "on-call" Fire. 	ging fati re proted t basis. the Divi	gue lev ction c	vels for rews will be assign ommander.	ned to Divisions I	oy the (Operations
8. Division Communication	· C					
	3			Phone		Radio Ch
Operations Manager _				Phone		Radio Ch Fire 1/Cellphone
Operations Manager _ Air Division Commander				Phone		1

	te 12&13/2/ ne 1900 – 07 ons Name	700	Affiliati	on ,	Phone	RF2 Radio Cha
ommunication Inder	ons		Affiliati	on	Phone	Radio Cha
inder		e	Affiliati	on	Phone	Radio Cha ■ I
	Name	e	Affiliati	on	Phone	Radio Cha ■ I
rone						
rone						<u> </u>
_						
ignments						70.
Aircraft	Reg or	Assign-	Tactical	Name		Telephon
Туре	Call sign	ment	Freq/Chan			Numbers
RPAS /	PINES1		Fire 4			·
	PINES?	+	Fire 4			
UAV	1111232		THE T			
RPAS /	Romeo1		Fire 4			
RPAS /	Romeo2	+	Fire 4			
UAV		<u> </u>				
_	vice Areas	1		6115	,	
Name			777-137 10987		eterence	
azards / Rad	io Coverage Lir		,.5 5 17 5 05 04.			
	*					
pecial Equip						
tor curvey -	fcontainment	to 20m Eal	lowing priority	order Eve	se Vallay Mill N	ray Vankas 7l
bit Island	i contamment	to Juli Fol	rowing briority	order EVE	o vaney Mill, /	rray, rankee, Zul
Full hotspot			fore sunset			
n platform f	or Zulu overnig	şht T				
		1	Date/Time: 12	/2/19 17	700hrs	
	Aircraft Type RPAS / UAV spoints/Serv Name recial Equip	Aircraft Type Call sign RPAS / PINES1 UAV RPAS / PINES2 UAV RPAS / Romeo1 UAV RPAS / Romeo2 UAV RPAS / Romeo2 UAV RPAS / Romeo2 UAV RPAS / Romeo2 UAV Repas / Romeo1 UAV Repas / Romeo2 UAV Repas / Romeo3 UAV Repas / Romeo2 UAV Repas / Romeo3	Aircraft Type Call sign RPAS / Call sign RPAS / PINES1 RPAS / PINES2 UAV RPAS / Romeo1 UAV RPAS / Romeo2 UAV Repas / Romeo3 Valuations Recial Equip or Service Reter survey of containment to 30m Folibit Island Full hotspot survey and aerial map bein platform for Zulu overnight	Aircraft Type Call sign RPAS / PINES1 RPAS / PINES2 UAV RPAS / PINES2 RPAS / PINES2 RPAS / Romeo1 UAV RPAS / Romeo2 RPAS / Romeo3 Aircraft Type Call sign Assignment Freq/Chan RPAS / PINES1 UAV RPAS / PINES2 UAV RPAS / Romeo1 UAV RPAS / Romeo2 UAV RPAS / Romeo2 Fire 4 Grid Romeo2 Grid Romeo2 41 22 39.9 S 173 05 04.6 E Assignment Fire 4 F	Aircraft Type Call sign Ment Freq/Chan RPAS / UAV RPAS / RPAS / UAV RPAS / RPAS / UAV RPAS / RPAS	

1. Incident Name		2. Operational	Period	COMMUNICATIONS
Pigeon Valley		Date 12&13/2/	/2019	PLAN
		Time 1900 – 07	700	RF205
3. Radio Channels Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	
Communa		Wannea 1	154.33125 TX	
Division Alpha	Operational	Fire 1	143.825	
Division Zulu	Operational	Fire 2	143.787	50
Division Yankie	Operational	Fire 3	140.925	00
Division Xray	Operational	Fire 1	143.825	00
Division Bravo	Operational	Fire 2	143.787	50
Air Ops -Heli	Operational	Fire 4	140.612	50
Air Ops – Fixed Wing	Operational	Fire 10	140.987	50
Emergency		Waimea 1	152.55000 RX	
			154.33125 TX	
Resources		Waimea 1	152.55000 RX	
F: 0		F: 0	154.33125 TX	(
FireCom		FireCom		
2 Hourly - Sitrep		OPSR2	Use mobile if d	lifficult coms to FCP
4. Telephone Assigned To	Landline	Cell phone	Fax	Comments
Emergency		111		
Regional Command		X		
Centre (RCC)	€			
6. Other (e.g. email, Sa	tphone, etc)		1	
Resources	resources@FE	NZNelsonIMT.con	<u>1</u>	
Safety	safety@FENZN	lelsonIMT.com		
Logistics	logistics@FEN	ZNelsonIMT.com		
PIM	pim@FENZNel	sonIMT.com		
Planning	planning@FEN	IZNelsonIMT.com		
Forward Control Point (FCP)	icu.nelson@fir	eemergency.nz	I	
Situation / GIS / Intel	situation@FEN	NZNelsonIMT.com		
Operations	operations@F	ENZNelsonIMT.co	<u>m</u>	
Photos and imagery	Join Facebook	site; Pigeon Vall	ey Fire -	https://www.facebook.com/
	INTERNAL COM	MMS	1	groups/1924082991035550/
	1		- T	

1. Incident Name	2. Operational Period		SAFETY PLAN
Pigeon Valley	Date 12&13/2/2019	•	_
	Time 1900 – 0700		RF209
3. General Safety Poi	nts		
Ensure regular rest perioc	s and hydrate often with water and ele	trolytes	
payment records (Comple	·		·
Maintain regular situatior supervisors.	reports especially kestrel observations	(containing all relevant inform	ation) via line
supervisors.			
	peed limits – no exception on forest	-	<i>\(\(\(\) \)</i>
•	peed limits – no exception on forest st be able to stop in half the visible	-	ijo,
	-	-	uts
Remember vehicles mu	st be able to stop in half the visible	listance Watcho	
LACES L - Lookout(s)	Fire Orders 1. conditions and forecasts 2. Know what your fire is doing at	Watcho 1. Fire size is unknown (no 2. Unfamiliar territory	size up).
LACES L - Lookout(s) A - Awareness	Fire Orders 1. conditions and forecasts 2. Know what your fire is doing at all times.	1. Fire size is unknown (no 2. Unfamiliar territory 3. Safety zones and escape	size up).
LACES L - Lookout(s) A - Awareness - Anchor Point(s)	Fire Orders 1. conditions and forecasts 2. Know what your fire is doing at all times. 3. Base all actions on current and	Watcho 1. Fire size is unknown (no 2. Unfamiliar territory	size up). routes not identified. and local factors
LACES L - Lookout(s) A - Awareness - Anchor Point(s)	Fire Orders 1. conditions and forecasts 2. Know what your fire is doing at all times.	1. Fire size is unknown (no 2. Unfamiliar territory 3. Safety zones and escape : 4. Unfamiliar with weather influencing fire behaviou 5. No communications link	size up). routes not identified. and local factors
LACES L - Lookout(s) A - Awareness - Anchor Point(s) C - Communication(s)	Fire Orders 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	1. Fire size is unknown (no 2. Unfamiliar territory 3. Safety zones and escape: 4. Unfamiliar with weather influencing fire behavious 5. No communications link or supervisor.	size up). routes not identified. and local factors ar. with crew members
LACES L - Lookout(s) A - Awareness	Fire Orders 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.	1. Fire size is unknown (no 2. Unfamiliar territory 3. Safety zones and escape : 4. Unfamiliar with weather influencing fire behaviou 5. No communications link	size up). routes not identified. and local factors ar. with crew members tents not clear.

9. Getting frequent spot fires across the line

10. Working uphill or down wind of a fire

11. Working on a steep slope12. Working in rugged terrain

15. Walking through hot ashes

18. Working near power lines

19. Working near machinery

21. Working around trees or spars

20. Working with aircraft

13. Can't see main fire

16. Working alone

17. Getting tired

14. In unburnt vegetation

possible danger.

7. Maintain prompt

adjoining crews.

6.

Stay alert. Keep calm, Think

communication with your

Give clear instructions and

9. Maintain control of your

crew/s at all times.

ensure they are understood.

10. Fight fire aggressively having

provided for safety first.

crew/s, your supervisor and

clearly, act decisively.

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.
- Crew Leaders and Supervisors to monitor crews for fatigue. 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
- Driver are to obey speed limits at all times
- 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)
- Dangerous tree assessors Ensure all crew members are competent and equipped for task (including PPE).
- Respiratory protection- P2 Mask to be worn when working in dusty and smoky environments
- Terrain keep off steep faces, stay above felled trees
- Plastic bags are available at FCP to transport dirty PPE
- Be aware with winds increasing and gusting trees may have their roots compromised and blow over. Remember to stay 2 tree lengths away from suspect trees. Communicate suspect trees to dangerous tree assessment crews.

5. Prepared By:	Date/Time 12/2/19 1200hrs

1. Incident Name Pigeon Valley		Date 118	tional Peri &12/2/2019 00 – 0700			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 crev	W						
Nelson 91 Ambulance	Forward comman	d post	Wain	nea 1	1 Paramedic	and 1 E	MT	
					;(C)			
4. Transportation Ambulance Service	Ada	Iress		ne/Radio innel	Paran available wit		ulance	
Ambulance St Johns	Closest u	nit	111	0	Yes			
5. Hospitals Hospital Name	Address	8	Phone	Road	<u>Travel Time</u> Air	Burn Unit	Heli Pad	
Nelson Public Emergency	Waimea R	d. 11	11	27m	4min	у	у	
Hutt Hospital (Burn Unit)		11	11	n/a	40min	Y	У	
6. Special Emergency Procedure St John will transport patients		health fa	acility is ap	propriate				

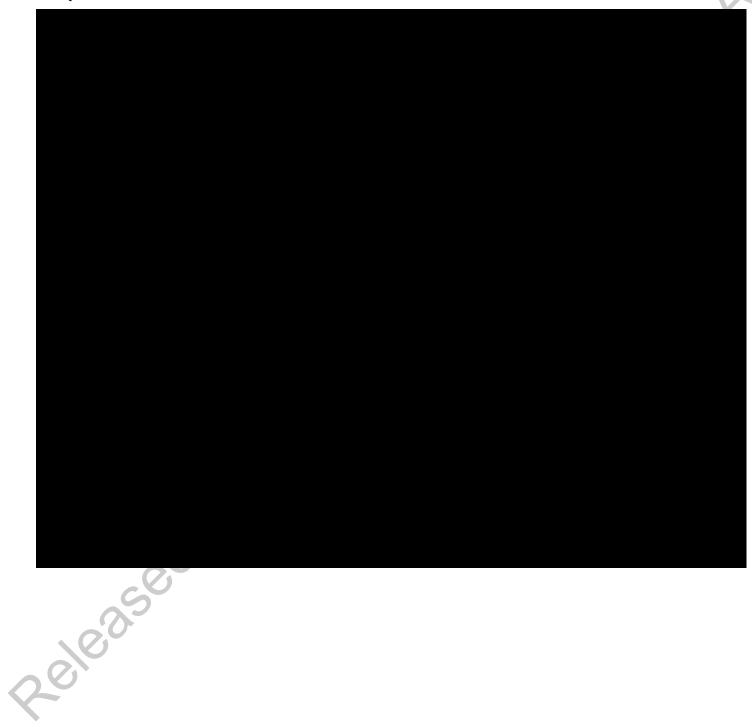
Date/Time 12/19 1200hrs

8. Reviewed by Safety Advisor:

1. Incident Name	2. Operational Period	MAPS
Pigeon Valley	Date 13/2/2019	
	Time 0700 - 1900	RF

^{3.} Download Avenza Maps app on iOS and Android, Scan the Following Codes to Access Digital Maps you can navigate with. These codes generally do no change, therefore to get tomorrow's map you can scan the old map code. Present a smartphone camera to see these codes or scan using QR code reader app.

QR CODES FOR MAP DOWNLOAD



1. Incident Name Date 12&13/2/2019

Pigeon Valley Fire, Nelson 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 Tuesday 12th February

PIM FENZ Manager –	
Media Officer –	10
PIM Support –	
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
Tactics Meeting 1030hrs
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 t/new Life Church, Richmond, 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. Total fire ban and machinery ban still in place.
- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates — committed to 3x updates daily at 0830hrs, 1400hrs, 1900hrs. Additionally a phone call every hour	RCC Christchurch	, Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – one was held at 11am today with lwi	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 is: Nelson Tasman Civil Defence facebook page
	Fire and Emergency NZ facebook page
600	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 Outlets	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	As required
Interviews	Regular interviews with FENZ personnel

Message monitoring

according action required in the official inflormation of the official inf Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly.

Sector	Fire lo	ocation				Sign	ed				
Supervisors	S-Sup	ervisor	visor			Sector					
-	name	:				_	Name/Location				
Report	Shift	Start			Shift	ift Start		Date			
(to be			Time						Time		
completed											
following shift) Crews on your											
Crews on your	Sector										
Crew	C-Lea	ıder	No. Equipment used			ed that	crew su	pplie		Crew Last Date	
Name/Compan	y Name	e	Crew	Radios						Other	on Fire
										*	
										X	
										70	
									12		
										Ĭ	
Equipment use			_	1.			II.	X			
Pumps	Waja			hrs			lite 1			hrs	
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(hrs for each pump)	\\/aia	v 2		hre		No Da	ma	_			
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	Waja	v 1		hrs	, (C)	USEU)	•				
Hose Lengths	25mr			41mm				70n	nm		
Hose Lengths		ths=1pk		3lengths=1pk		ľ			70111111		
Suppressants	Foam			Litres	70			Soa	g		
• •	Juppi essante			0,					Сар		
Fire Appliances	s Used or	the sect	or								
Registration	Туре	Drive	er name			urly	Other	Comi	ments		
					Usa						
		76			site	•					
		70			+						
+											
+	1										
	7				+						
					+						
6											
7											
Heavy Machine	ery Used	on site					1				
	Туре		r name		Ho	urly	Other	Com	ments		
						Usage on					
					site	•					
					_						
					-		<u> </u>				
							<u> </u>				