 Incident Name Pigeon Valley 			Date 8/	rational Peri /2/2019 700 – 1900	iod	A	DIVISION SSIGNMENT RF204a
3. Division			4. Desc	ription			
Xray			Divisior	n from Cut h	ill/Eder Rd to	CHH sa	aw mill
5. Division Commander	Affilio	ation		Phone		Radio	o Ch
						Fire 5	
6. Resources Assigned this <i>Sector</i>	Period		Super	visor	Crews	5	Radio Ch
Appleby Tanker							0
Smoke Chaser Wainui 3px					•		
NZDF RFA x7px					60		
DOC North Contorbury Env							
DOC North Canterbury 5px							
AFM – 4px 7. Division Assignment/Sp Ground Crews: Blacking ou length of the perimeter y Provide 2 hourly SITREP Join Comms Facebook G	ecial Ins t to 30 m where sa to FCP b	metres i afe to d by CON	in to the lo so. IMS Cha	nnel OPS2 o	r Mobile		
AFM – 4px 7. Division Assignment/Sp Ground Crews: Blacking ou length of the perimeter of Provide 2 hourly SITREP	ecial Ins t to 30 m where sa to FCP b froup "Pi o view im view im l strengt Rd d crew a	netres i afe to d by COM igeon V nages a then a I	in to the lo so. IMS Cha /alley – I nd videc ine along	nnel OPS2 o NTERNAL CO o collected b g Cuthill Rd f	r Mobile DMMS" and co y aerial ops du from Eder Rd t	ontribu uring da to whe	ite imagery and ay. re it meets the
AFM – 4px 7. Division Assignment/Sp Ground Crews: Blacking ou length of the perimeter of Provide 2 hourly SITREP Join Comms Facebook G video throughout day. Also Heavy Equipment –Cut and paddocks past Johnsons Helicopters: Support groun) with requirement	ecial Ins t to 30 m where sa to FCP b iroup "Pi o view im I strengt Rd d crew a s	netres i afe to d by COM igeon V nages a then a I	in to the lo so. IMS Cha /alley – I nd videc ine along	nnel OPS2 o NTERNAL CO o collected b g Cuthill Rd f	r Mobile DMMS" and co y aerial ops du from Eder Rd t	ontribu uring da to whe o call ai	ite imagery and ay. re it meets the
AFM – 4px 7. Division Assignment/Sp Ground Crews: Blacking ou length of the perimeter of Provide 2 hourly SITREP Join Comms Facebook G video throughout day. Also Heavy Equipment –Cut and paddocks past Johnsons Helicopters: Support groun	ecial Ins t to 30 m where sa to FCP b iroup "Pi o view im I strengt Rd d crew a s	netres i afe to d by COM igeon V nages a then a I	in to the lo so. IMS Cha /alley – I nd videc ine along	nnel OPS2 o NTERNAL CO o collected b g Cuthill Rd f	r Mobile DMMS" and co y aerial ops do from Eder Rd t ommanders to	ontribu uring da to whe o call ai	ate imagery and ay. re it meets the r attack (
AFM – 4px 7. Division Assignment/Sp Ground Crews: Blacking ou length of the perimeter of Provide 2 hourly SITREP Join Comms Facebook G video throughout day. Also Heavy Equipment –Cut and paddocks past Johnsons Helicopters: Support groun) with requirement 8. Division Communication	ecial Ins t to 30 m where sa to FCP b iroup "Pi o view im I strengt Rd d crew a s	netres i afe to d by COM igeon V nages a then a I	in to the lo so. IMS Cha /alley – I nd videc ine along	nnel OPS2 o NTERNAL CO o collected b g Cuthill Rd f	r Mobile DMMS" and co y aerial ops do from Eder Rd t ommanders to	ontribu uring da to whe o call ai	nte imagery and ay. re it meets the r attack (ECCON

		Time 0700 – 1900		ASSIGNMENT RF204a	
3. Division		4. Description			
Zulu		Division from Cut I	hill/Eder Rd to CHI	H saw mill	
5. Division Commander	Affiliation	Phone	Rc	ndio Ch	
6. Resources Assigned this	Period		_		
Sector		Supervisor	Crews	Radio Ch	
4x Excavator 20T	TLC				
D65 Dozer			-		
Watertanker					
Tree + Forestry + 4px					
Otago 10px					
 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 B to sector boundary at Be Helicopters: Support grour 	at to 30 metres eter where safe to FCP by CON froup "Pigeon" o view images preak from the ennets Rd ad crew as req	s in to the forest in su e to do so. AMS Channel OPS2 o Valley – INTERNAL CO and video collected e existing retardant lin	r Mobile DMMS" and contr by aerial ops durir ne, follow busline	ibute imagery and ng day. 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 B to sector boundary at Be 	at to 30 metres eter where safe to FCP by CON froup "Pigeon" o view images preak from the ennets Rd ad crew as req	s in to the forest in su e to do so. AMS Channel OPS2 o Valley – INTERNAL CO and video collected e existing retardant lin	r Mobile DMMS" and contr by aerial ops durir ne, follow busline	ibute imagery and ng day. 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 B to sector boundary at Be Helicopters: Support grour 	at to 30 metres eter where safe to FCP by CON froup "Pigeon" o view images preak from the ennets Rd ad crew as req	s in to the forest in su e to do so. AMS Channel OPS2 o Valley – INTERNAL CO and video collected e existing retardant lin	r Mobile DMMS" and contr by aerial ops durir ne, follow busline	ibute imagery and ng day. 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 B to sector boundary at Be Helicopters: Support grour) with requirement 	at to 30 metres eter where safe to FCP by CON froup "Pigeon" o view images preak from the ennets Rd nd crew as req ts	s in to the forest in su e to do so. AMS Channel OPS2 o Valley – INTERNAL CO and video collected e existing retardant lin	r Mobile DMMS" and contr by aerial ops durir ne, follow busline	ibute imagery and ng day. across McCalls Road Il air attack (ECCON	
 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 B to sector boundary at Be Helicopters: Support grour) with requirement 8. Division Communication Operations Manager 	at to 30 metres eter where safe to FCP by CON froup "Pigeon" o view images preak from the ennets Rd nd crew as req ts	s in to the forest in su e to do so. AMS Channel OPS2 o Valley – INTERNAL CO and video collected e existing retardant lin	r Mobile DMMS" and contr by aerial ops durin ne, follow busline commanders to ca	ibute imagery and ng day. across McCalls Road Il air attack (ECCON Radio Ch Fire 1/Cellphone	
 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 B to sector boundary at Be Helicopters: Support grour) with requirement 	at to 30 metres eter where safe to FCP by CON froup "Pigeon" o view images preak from the ennets Rd nd crew as req ts	s in to the forest in su e to do so. AMS Channel OPS2 o Valley – INTERNAL CO and video collected e existing retardant lin	r Mobile DMMS" and contr by aerial ops durin ne, follow busline commanders to ca	ibute imagery and ng day. across McCalls Road Il air attack (ECCON	

1. Incident Name Pigeon Valley		Date 8,	rational Peric /2/2019 700 – 1900	d	AS	DIVISION SIGNMENT RF204a	
3. Division			4. Desc	ription			1. 2014
Yankee			Bennet	s Road to CH	H saw mill at	Eves Va	alley
5. Division Commander	Affil	iation	I	Phone		Radio	Ch
	Wak	efield V	′FB			Fire 3	
6. Resources Assigned this P	eriod				-		<u>```</u>
Sector		I	Super	visor	Crew	S	Radio Ch
2x Excavator 20T		Taylo	ſS				
Bulldozer D8		Taylo	rs			9	
Brightwater 5026 + 3px							
Rural Tanker Downers + 1px	(~		
Brightwater 5011 + 3px					ŚÓ		
Stoke 221 + 5px							
Richmond 331 + 4px							
Ngatimoti + 4px				. 0	b		
 7. Division Assignment/Spect Ground Crews: Urban crews for prote Blacking out to 30 me of the perimeter whe Provide 2 hourly SITR Join Comms Facebool and video throughout Heavy Equipment – 2x Excav Zulu intersection. Helicopters: Support ground) with requirements 	ection etres ir ere safe EP to I k Grou t day. vators	of Eves n to the e to do FCP by 0 ip "Pige working	s Vallley forest ir so. COMMS on Valle g to assis	n successive 1 Channel OPS y – INTERNAL	0 metre incr 2 or Mobile . COMMS" ai aks and clea	ements nd contr ring aro	along the length ribute imagery und the Yankee
8. Division Communications					Phone	?	Radio Ch
Operations Manager							Fire 1/Cellphone
Air Division Commander							
							Fire 4/Cellphone

Pigeon Valley		2. Operational Peric Date 8/2/2019 Time 0700 – 1900		DIVISION ASSIGNMENT RE2042
3. Division		4. Description		NF2040
Property Assessments		Functional division a	cross Pigeon Val	ley Incident
5. Division Commander	Affiliation	Phone	Ra	dio Ch
				V
6. Resources Assigned this <i>Sector</i>	Period	Supervisor	Crews	Radio Ch
	FENZ	Liaison		
				•
7. Division Assignment/Sp			ξΟ'	
responders and re will be completed assessments will i and built structure weather.	ssments are be esidents during for each prope nclude work or es. These will b	eing planned and comp visitation and reoccup erty , surrounding area n danger trees, condtic e reviewed in relation	ation .Fire danag and access rout on of surrounding to incident statu	ger risk assessments es. The risk g flammable fuels es and predicted
 responders and rewill be completed assessments will i and built structure weather. 2. The assessments verequired. 3. Liaison communic the incident grour 4. Timeline for the assessment as a second structure for the assessment and the assessment as a second structure. 	ssments are be esidents during for each prope nclude work or es. These will b will include stat ations will be r nd ssessments to	eing planned and comp visitation and reoccup erty , surrounding area n danger trees, condtic re reviewed in relation ff from Civil defence, F maintained with divisio	ation .Fire danage and access route on of surrounding to incident statu ENZ and specialis on commanders a	ger risk assessments es. The risk g flammable fuels les and predicted st contractors as at all times when on
 responders and rewill be completed assessments will i and built structure weather. 2. The assessments required. 3. Liaison communic the incident grour 4. Timeline for the assessment as a second structure for the assessment as a second structure. 	ssments are be esidents during for each prope nclude work or es. These will b will include stat ations will be r nd ssessments to	eing planned and comp visitation and reoccup erty , surrounding area n danger trees, condtic re reviewed in relation ff from Civil defence, F maintained with divisio	ation .Fire danag and access rout on of surrounding to incident statu ENZ and specialis	ger risk assessments es. The risk g flammable fuels les and predicted st contractors as at all times when on <i>Radio Ch</i>
 responders and rewill be completed assessments will i and built structure weather. 2. The assessments verequired. 3. Liaison communic the incident grour 4. Timeline for the assessment as a second structure for the assessment and the assessment as a second structure. 	ssments are be esidents during for each prope nclude work or es. These will b will include stat ations will be r nd ssessments to	eing planned and comp visitation and reoccup erty , surrounding area n danger trees, condtic re reviewed in relation ff from Civil defence, F maintained with divisio	ation .Fire danage and access route on of surrounding to incident statu ENZ and specialis on commanders a	ger risk assessments es. The risk g flammable fuels les and predicted st contractors as at all times when on

Pigeon Valley	2. Operational Per Date 8/2/2019 Time 0700 – 1900	fiod	DI' ASSIGN	VISION NMENT RF204a	
3. Division		4. Description			NF204a
Rabbit Island		Rabbit Island			
5. Division Commander	Affiliatio	on Phone		Radio Ch	
6. Resources Assigned this <i>Sector</i>	Period	Supervisor	Crews	Fire 3	udio Ch
Mapua Excavator					
Motueka Urban + 5px					
			62		
 7. Division Assignment/Spe Patrol and H 		ctions g as identified			
Patrol and I S. Division Communications	not spottin		Phone	1	dio Ch
Patrol and I S. Division Communication: Operations Manager	not spottin		Phone	Fire 1/	'Cellphone
Patrol and I S. Division Communications	not spottin			Fire 1/	<i>dio Ch</i> ′Cellphone ′Cellphone

1. Incident Name		2. Opera	tional Period	Δ	IR OF	ERATION
Pigeon Valley		Date 8/2	/2019			PLA
		Time 070	0 - 1900			RF2
3. Personnel and Comn	nunications					
Position	N	lame	Affiliati	on Pho	ne	Radio Cha
Air Div Commande	r					
Air Attack Superviso	•					Fire 4
Air Support Superviso	~					
Lead Helicopter Pilo	t					
Lead Fixed-Wing Pilo	t				$\hat{\mathbf{o}}$	
4. Air Resource Assignr	nents				20	
		Reg or		Tactical		Telephone
Pilot Name/	Aircraft	Call sign	Assignment	Freq/Chan		Numbers
Company	Туре	Call Sign	Assignment	Freq/Chan		Numbers
Becks	UH-1	HHF		Fire 4		
Becks	UH-1	ННВ		Fire 4		
Helicharter	500D	HXX		Fire 4		
Garden City Helicopters	B3	IHL	XU	Fire 4		
Garden City rk Helicopters	EC130	IGF		Fire 4		
Garden City Helicopters	ВК	IVB		Fire 4		
Reid Heli	B2	НРЕ		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		Fire 4		
Marlborough Heli	Long Ranger	HTA		Fire 4		
Skyworks Amuri Heli	B3 FX2	HWW		Fire 4		
Amuri Hell Anderson	B2	НЈМ НКА		Fire 4 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		Fire 4		
Heliventures	B2	IER		Fire 4		
Murchison Heli				Fire 4		
	Cresco			Fire 4		
	Airtractor			Fire 4		
Interpine	RPAS / UAV	PINES1		Fire 4		
5. Location of Filling Po Name	ints/Service A	reas		irid Reference		
iname		_/1 2177	ن 7, 137.10987	in a Reference		
Holi base		-41.51//	,,10,10301			
Heli base Fixed wing		41 22 20 0	S 173 05 04.6	Б		

	hormatio
Kthe	official
easedunderthe	

1. Incident	Name		2. Operational	Period	COMMUNICATIONS
Pigeon Valle	ey		Date 8/2/2019		PLAN
			Time 0700-190	0	RF20
3. Radio Cha	annels <i>ned To</i>	Function	Channel	Frequency	System
				riequency	
Command			Waimea 1	152.55000 RX	
				154.33125 TX	
Division Alp	ha	Operation al	Fire 1	143.82500	
Division Zul	u	Operation al	Fire 2	143.78750	ilo'
Division Yar	nkie	Operation al	Fire 3	140.92500	
Division Xra	У	Operation al	Fire 1	143.82500	$\langle \cdot \rangle$
Division Bra	VO	Operation al	Fire 2	143.78750	
Air Ops -He	li	Operation al	Fire 4	140.61250	
Air Ops – Fi	xed Wing	Operation al	Fire 10	140.98750	
Emergency			Waimea 1	152.55000 RX 154.33125 TX	
Resources		0	Waimea 1	152.55000 RX 154.33125 TX	
FireCom			FireCom	131.3312317	
2 Hourly - S	itrep	5	OPSR2		Use mobile if difficult coms to FCF
4. Telephon	e				
Assig	ned To	Landline	Cell phone	Fax	Comments
Emergency			111		
Regional C Centre (RC					
	g. email, Satp	hone, etc)		I	
Resources		resources@F	ENZNelsonIMT.co	<u>om</u>	
Safety		safety@FENZ	NelsonIMT.com		
Logistics		logistics@FEN	VZNelsonIMT.con	<u>n</u>	
PIM		pim@FENZNe	elsonIMT.com		
Planning		planning@FE	NZNelsonIMT.co	<u>m</u>	
Forward Co FCP)	ntrol Point (icu.nelson@f	ireemergency.nz	I	
	GIS / Intel	situation@FE	NZNelsonIMT.co	m	

Operations	operations@FE	NZNelsonIMT.com		
Photos and imagery	Join Facebook s INTERNAL COM	site; Pigeon Valley Fire - 1MS		s://www.facebook.com ups/192408299103555
6. Prepared by:			Date	e /Time 1900 7/2/19
1. Incident Name		2. Operational Period	1	SAFETY PLAN
Pigeon Valley		Date 8/2/2019		RF209
		Time 0700-1900		KF203

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.

entinder the official 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 down wind of a fire Working in rugged terrain Can't see main fire In unburnt vegetation Walking through hot ashes Working alone Getting ried Working near power lines Working with aircraft Working around trees or spars
4. Specific Safety Points		
and be logged in. 7Public access Man	Fime and access point	to enter and they must receive a brie

- 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

1. Incident Name Pigeon Valley	Da	Operatio ate 8/2/20 me 0700-2)19	od		MEDICA PLAN RF20		
3. First Aid Station Name	Locati	on		ne/Radio Innel				
Each Crew must have available one First aid Level 1 Certified	Each crew						7	
Nelson 91 Ambulance	Forward command p	oost	Wain	nea 1	1 Paramedio	and 1 E	MT	
					100			
4. Transportation Ambulance Service	 Addre	SS		ne/Radio Innel	Parai available wi	nedics ith Amb	ulanc	
Ambulance St Johns	Closest unit		111		Yes			
5. Hospitals Hospital Name	Address	Ph	one	Road	<u>Travel Time</u> Air	Burn Unit	He Pac	
Nelson Public Emergency	Waimea Rd.	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		ealth facil	ity is ap	propriate		1		
7. Prepared By:	Shift - Mana	ager Nelso	on	Date/Tim	e 1900 7/2/19)		

RF201a

FIRE BEHAVIOUR FORECAST

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

Fire Behaviour General:

ire Behaviour Genera Expected fire beha		Forecast worst and	- 28°C 45%RH slope 20° 1400-		
Expected in e bena	vioui – stope o		- 28°C 43% KH slope 20° 1400-		
		1800			
Fuel type: Mature Pine	-	Fuel type: Mature P			
Expect HF rate of sprea	nd of 50 m/hr	Expect HF rate of spi	read 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/ go	rse 2m height		
Expect HF rate of sprea	nd of 1000 m/hr	Expect HF rate of sp	read 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% G	² C, 100% cover, 0.1m heigh	It Fuel type: Ungrazed	Grass -70% GC, 100% cover,		
		0.2m height			
Expect HF rate of sprea	nd of 200 m/hr	Expect HF rate of spi	read of 600 m/hr		
HF Intensity	350 kw/m	HF Intensity	1150 kW/m		
Flame lengths	1.2 m	Flame lengths	2 m		
Safety Considerations	:				
Head Fire intensity, and	l flank fire intensity	Head Fire intensity e	xceed threshold for direct		
exceed threshold for di	ect attack in gorse/	attack in gorse and m	attack in gorse and mature pine fuels, and flank		
scrub fuels.		fires in gorse. Flank fires intensity is now too			
scrub fuels.		mes m gorse. Plank	ines intensity is now too		

winds stronger than Thursday.

I 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

QR CODES FOR MAP DOWNLOAD



Released under the Official Information

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 Thurse	day 7 th 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	Requires regular updates –	RCC Christchurch	and cc,
to ELT, NCC, OCE	committed to 4x	Christenuren	and cc,
and Board)	updates daily at 0800hrs, 1100hrs,		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.	Š
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 dist	wikution Dotail	¢	ic sites or types	

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
	\mathcal{O}_1
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	
Newspapers	
Media	Schedule
Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on

Message monitoring	
	nce PIM Team and dealt with / passed on accordingly. management and FENZ / Operational information
Prepared by:	Date: 7/2/19 1900hrs
	horme
	ci ci al
	S OKIN
derti	*
eased under th	
e de	

Incident Name

Operational Period

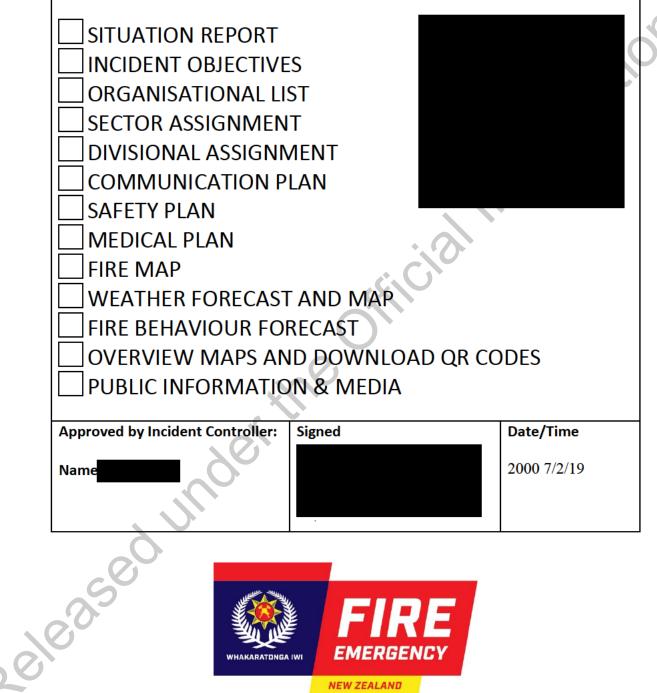


Pigeon Valley

Date 8&9/2/2019 Time 1900 - 1900

INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan





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 Fé 27km (may have a recalculated total area by 1900hrs).

Thursday afternoon we experienced a breakout in an area where the fire retardant and aerial sur effective 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 box 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 po 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.

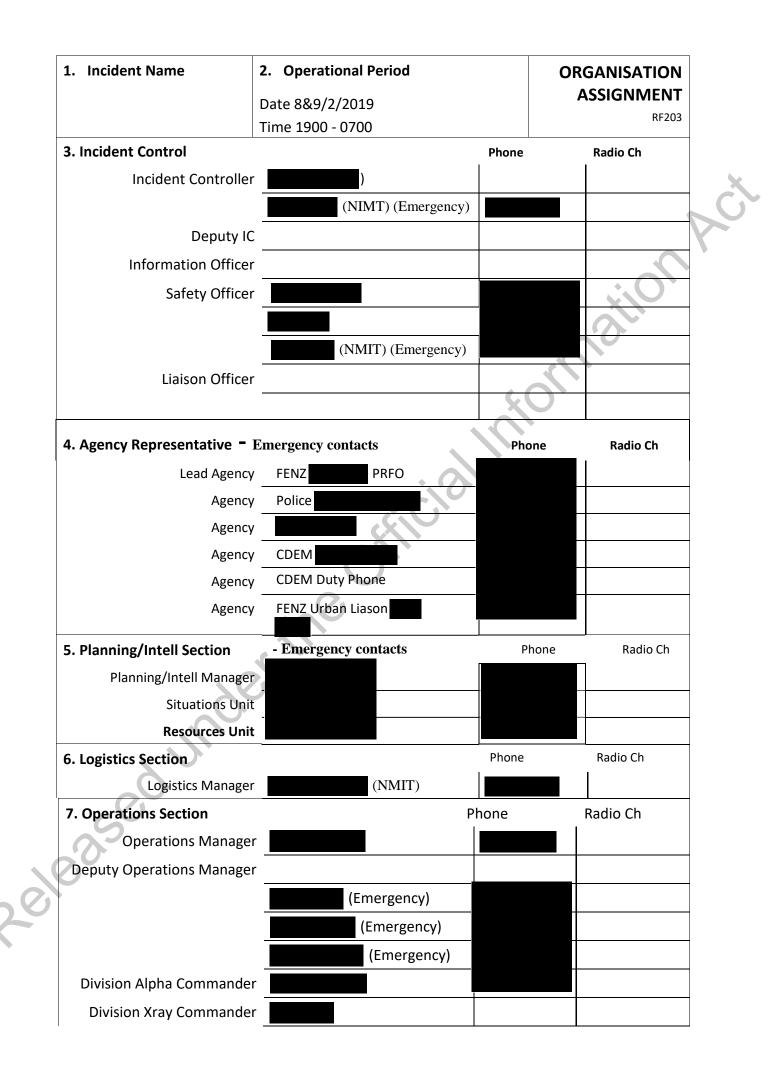
We actioned one Drone Team available for overnight surveillance, and the USAR Drone Team is arriving tomorrow.

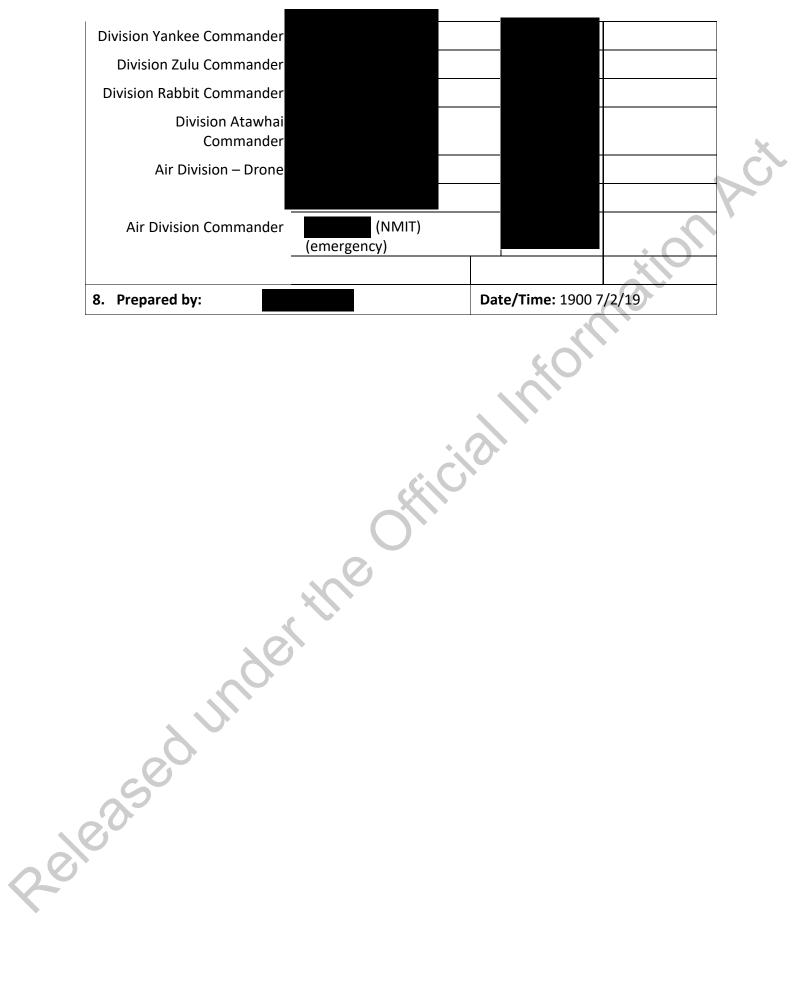
We have requested from R4 RCC additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

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

complex dense veg	getation. Forecasted winds have	pply. Steep terrain. Highly flammable e been in place since 1100hrs of NE 20k e is proving challenging for aerial	m,
	rease to Relative Humidity has ions as the day progresses.	occurred and should benefit the	Č
9. Predicted Incident Weather forecasts an	-	urs, so we always have current informa	tion.
	over the next two days involve susts of up to N/NE 55km/hr pr	s strengthening northerlies with redicted on Sunday.	
established a worst careach the Wai-Iti rive	ase scenario, by rate of spread per by 1900 hrs and there would	ad experienced over recent days, we hav modelling; that a running fire front woul be the possibility of a new fire run on th en a significant amount of structures on S	ld ne
10. Prepared by:		Date/Time:	
	yer the		
eleased			

1. Incide	nt Name	2. Operational Period	INCIDENT	
Pigeon \	/alley	Date 8&9/2/2019	OBJECTIVES	
•	Time 1900 - 0700 RF202			
3. Overa	all Incident Obj	ectives	I	
1. E	nsure the safet	y of responders and public at all times du	uring the incident	
		pact on structures, infrastructure, assets	-	
	•	t on environment, culture and historic va	-	
		ication and information, liaison with stak		
-		lies and affected parties is timely, meets	standards and requirements at	
	Il times during t enort on costs	on a daily basis by 1800		
	•	ity to homes/normal life as soon as pract	icable	
		e (including protect initial ignition site an		
,	inestigate caus			
			$\langle O \rangle$	
4. Strate	egies to meet o	biectives		
	-	blan and safety briefing for all staff and co	ontractors. Monitor fire	
		stablish triggers and cordons for withdra		
		ed community channels and stakeholder		
а	nd engagemen ⁻	ts. Establish regular briefings and update	S.	
		nfrastructure, assets and values. Structur		
		ical liaison where required. Water course	es and dip sites identified with	
	nvironmental p		aident ground (Actual and	
	rojected)	al/environmental values identified on in	cident ground (Actual and	
		tigation to determine cause		
	-	ng established and continued		
		y plan with community and stakeholders	s to assist post incident.	
		eration delivery to minimise impacts in s	-	
5. Speci		tasks for this shift to meet objectives		
_		king out to 30m in 10m increments		
C		d monitor all fire edges		
2	-	chinery to reinforce firebreaks and establish	new lines identified in sectors.	
25	 Orban app 	pliances tasked for structure protection.		
Dron	ared by:		Date/Time: 1900 7/2/19	





 Incident Name Pigeon Valley 		2. Operational Perio Date 8&9/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT	
3. Division Alpha		4. Description		NF2U46	
5. Division Commander	Affiliation	Phone	Ra	dio Ch	
6. Resources Assigned this P Sector	eriod	Supervisor	Crews	Radio Ch	
2 Dozers				N	
3 Excavators			~		
3 4px Crew					
			ýO,		
		. 0			
 Patrol and monitor all of Div A1 Patrol to ford bou A2 – x2 patrol either Alpha 1 - Div break to Ford of Alpha 2 – From ford on Sharp 	ndary and ev way on Sharps Rd			iv break)	
8. Division Communications			Phone	Radio Ch	
Operations Manager					
9. Prepared By:			Date/Time		
9. Prepared By:			Date/Time		

	1. Incident Name Pigeon Valley	Date 8	erational Peri 8&9/2/2019 1900 - 0700	DIVISION ASSIGNMENT RF204a		
	3. Division		4. Des	scription		KF204
	Xray 5. Division Commander	n	Phone		Radio Ch	
	5. Division commander	Affiliatio		Phone		Ruulo Ch
	6. Resources Assigned this P Sector 3x 4WD Tankers	Period	Supe	rvisor	Crews	Radio Ch
	2x Bulk tanker					
	3x 4px Crew					
	1x Dozer					
	To patrol, let fire co Dozer to clear Johns • X2 Patrol • X3 Monitor				ey Rd at the fo	restry gate
	Xray 1 – Cuthill/Johnsons Re					
	Xray 2 - 5423000/1603000 t Xray 3 - Redwood Valley Rd					tage lane
		l and Red S				Radio Ch
0.	Xray 3 - Redwood Valley Rd	l and Red S			break	

 Incident Name Pigeon Valley 		2. Operational Per Date 8&9/2/2019 Time 1900 - 0700	DIVISION ASSIGNMENT RF204a		
3. Division Yankee		4. Description		<u> </u>	
5. Division Commander	Affiliation	Phone		Radio Ch	
6. Resources Assigned this P Sector	Period	Supervisor	Crew	s Radio Ch	
1x Dozers					
1x Urban Appliances			C C	$\langle \cdot \rangle$	
3x 4px Crew			0)		
 Y1 Mop up and patrol Y2 Dozer build line TBI 1 Appliance to prote Yankee 1 – South edge of mark 	ect mill and as ill to div brea				
Yankee 2 – Xray div break to	o south edge (
 Yankee 2 – Xray div break to 8. Division Communications Operations Manager 			Phone	e Radio Ch	

3. Division Zulu				2. Operational Period Date 8&9/2/2019 Time 1900 - 0700			
		4. Descr	ription		RF204a		
5. Division Commander	Affiliation		Phone		Radio Ch		
6. Resources Assigned this F Sector	Period	Superv	isor	Crews	Radio Ch		
2x Dozers							
2x Excavators							
1x 4px Crew							
1x Bulk Tanker				κO,			
1x 4wd Tanker				\sim			
2x Smoke Chaser							
2x Urban Crew							
2x Rural Crew			C				
 Z1: Rural patrol Continue current lin Smoke chaser with Z2 Urban patrol for str Zulu 1 – Alpha div break to Ban Zulu 2 – Barton lane to Yankee 	ne with HEQ or experienced c ructure protect	nto 22 rew monito			ocal knowledge critical.		
R				Phone	Radio Ch		
8. Division Communications Operations Manager							

1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700		DIVISION SSIGNMENT RF204a
3. Division Atawhai		4. Description		
5. Division Commander	Affiliation	Phone	Rad	io Ch
6. Resources Assigned this I Sector	Period	Supervisor	Crews	Radio Ch
			NON'	
7. Division Assignment/Spectrew and equipment resour			d ground inspect	ions.
6	st the			
25ed un				
8. Division Communications	6		Phone	Radio Ch
Operations Manager				

Pigeon Valley	me	Date	perational 8&9/2/20)19			AIR OP	RF208
3. Personnel and	<u>Camana</u>		e 1900 - 070	00				
3. Personnel and Position		ication	is Name		Affiliatio	n	Phone	Radio Chan
Air Div Com				ergency)				
Air Division –	Drone							(
	Dione							
								XV
4. Air Resource A	_		Dener	A 1	Tastiasl	N a var a		
Pilot Name/ Company	Aircra Type	art	Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name	~	Telephone Numbers
			Ŭ					
Interpine	RPAS UAV	/	PINES1		Fire 4		20	
5. Location of Fill	ing Points Name	s/Servi	ce Areas			Grid Ref	erence	
Heli base				-41.317	77, 137.10987			
Fixed wing				41 22 39	.9 S 173 05 04.	.6 E		
7. Air Operations Drone operations	are taske	d to m	onitor sector		ankee for fire r	novement	with infrared	
8. Prepared By:			30		ate/Time: 190	0 7/2/19		
8. Prepared By:		8	25					

1. Incident Name		2. Operational	Period	COMMUNICATION		
Pigeon Valley		Date 8&9/2/20		PLAI		
2. Dedie Chennele		Time 1900 - 070	00	RF20		
3. Radio Channels Assigned To	Function	Channel	Frequency	System		
Command	• •	Waimea 1	152.55000 RX			
			154.33125 TX			
Division Alpha	Operational	Fire 1	143.82500)		
Division Zulu	Operational	Fire 2	143.78750			
Division Yankie	Operational	Fire 3	140.92500			
Division Xray	Operational	Fire 1	143.82500			
Division Bravo	Operational	Fire 2	143.78750			
Air Ops -Heli	Operational	Fire 4	140.61250			
Air Ops – Fixed Wing	Operational	Fire 10	140.98750			
Emergency		Waimea 1	152.55000 RX 154.33125 TX			
Resources		Waimea 1	152.55000 RX 154.33125 TX			
FireCom		FireCom	<u>)</u>			
2 Hourly - Sitrep		OPSR2	Use mobile if dif	ficult coms to FCP		
4. Telephone	I					
Assigned To	Landline	Cell phone	Fax	Comments		
Emergency		111				
Regional Command Centre (RCC)						
6. Other (e.g. email, Sat	phone, etc)		I			
Resources	resources@FEN	ZNelsonIMT.com				
Safety	safety@FENZNe	elsonIMT.com				
Logistics	logistics@FENZ	NelsonIMT.com				
PIM	pim@FENZNels	onIMT.com				
Planning	planning@FENZ	NelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fire	emergency.nz				
Situation / GIS / Intel	situation@FEN2	ZNelsonIMT.com				
Operations	operations@FE	NZNelsonIMT.cor	<u>n</u>			
Photos and imagery	Join Facebook s INTERNAL COM	ite; Pigeon Valle MS	-	tps://www.facebook.com/ oups/1924082991035550/		
	1					

1. Incident Name	2. Operational Pe	riod	SAFETY
Pigeon Valley	Date 8&9/2/2019		
	Time 1900 - 0700		PLAN
3. General Safety Points			RF209
Everyone is to be signed in a	and out of the fire ground through the	Incident Control Poin	t for both safety
check and payment records	(Complete DTR's).		
Maintain regular situation r line supervisors.	eports especially kestrel observations	(containing all releva	nt information) via
LACES	Fire Orders	Wat	chouts
T T 1 (1)	1. conditions and forecasts	1. Fire size is unknown	n (no size up).
L - Lookout(s)	2. Know what your fire is doing at all	2. Unfamiliar territory	
A – Awareness	 times. Base all actions on current and expected 		cape routes not identified. ther and local factors
– Anchor Point(s)	fire behaviour of the fire.	influencing fire beh	aviour. s link with crew members
C – Communication(s)	4. Identify escape routes and safety zones and make them known.	or supervisor.	
\mathbf{E} – Escape Route(s)	 Post lookouts when there is possible 	 Instructions and assi Weather is getting here 	ignments not clear. otter, drier and relative
-	danger.	humidity dropping	
S - Safety Zone(s)	6. S tay alert. Keep calm, Think clearly, act decisively.	9. Getting frequent spo	ot fires across the line
	7. Maintain prompt communication with	 Working uphill or de Working on a steep 	
	your crew/s, your supervisor and adjoining crews.	12. Working in rugged t	
	8. Give clear instructions and ensure they	13. Can't see main fire14. In unburnt vegetation	on
	are understood. 9. Maintain control of your crew/s at all	 Walking through ho Working alone 	t ashes
	9. Maintain control of your crew/s at all times.	17. Getting tired	
	10. Fight fire aggressively having	 Working near power Working near maching 	
	provided for safety first.	20. Working with aircra	ft
		21. Working around tree	es or spars
4. Specific Safety Points		1 1.1	, •
-	o fire are controlled. Only those authori ed including time and point of access	zed to enter and they n	nust receive a
 Public access manage 			
	our monitored for changes and commun	icated to crews. Use ke	estrels to gather
weather data. Risk id			
	equate food, water, PPE to manage fati	gue and hydration.	
	forced. Seek shade during rest period. st periods before returning to fire ground	d	
	fied emergency escape routes and emer		tof harm. Meeting at
pre-identified evacuation	ation point once evacuated.		C
	e they are competent for the tasks and r	÷	
	vs to be isolated from risk areas during c	-	
	ares (Division Yankee) from Eves Valle ere stability of surface cannot be assured		ossible.
	oke, work in smoke and traveling in sm		
	separation from Air-ops at forward com		
-	ge at Forward command post	-	
Report all incidents	and near misses to safety officer.		
Be sun smart, use ha	ats and cover completely.		
5 Prenared By:	Date/Tim	e 1900 7/2/19	

5. Prepared By: Date/Time 1900 7/2/19	
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	ident Name on Valley	D	. Operatio ate 8&9/2, ime 1900 -	/2019	d			DICAL PLAN RF200
3. Fir	st Aid Station Name	Locat		Phone/Radio Channel				
avai	n Crew must have lable one First aid Level ertified	Each crew						P
Nels	on 91 Ambulance	Forward command	post	Waime	ea 1	1 Paramedic	and 1 E	MT
						. (⁰		
4. Tra	ansportation Ambulance Service	Addre	255	Phone Char	e/Radio nnel	Paran available wi	nedics th Amb	ulance
Amt	oulance St Johns	Closest uni	it	111		Yes		
5. Ho	spitals Hospital Name	Address	Ph	one	Road	<u>Travel Time</u> Air	Burn Unit	Heli Pad
	Nelson Public Emergency	Waimea Rd.	111		27m	4min	У	У
ŀ	Hutt Hospital (Burn Unit)		111		n/a	40min	Y	У
	ecial Emergency Procedur		nealth facil	ity is app	ropriate			
7. Pre	epared By:	Shift - Man	ager Nelso	on D	ate/Tim	e 1900 7/2/19)	

Pigeon Valley

<u> 11 am – 6 pm Friday</u>

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.

<u>6 pm Friday – 6 am Saturday</u>

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.

RF201a

FIRE BEHAVIOUR FORECAST

Fire nam	e: Pigeo	on Road		Prediction for: 0800-1800 08 Feb-19					eb-19
Prepared	l by:			Time and date issued: 1400 07 Feb 19					7 Feb 19
Forecast	no. 4				Day Shift				
Assumpt	tions:			Friday's	forecast				
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
20	52	12	0	88	101	470	5.8	132	24

Fire Behaviour General:

20	52	12	U	88	101	470	5.8	132	24	· · · · · · · · · · · · · · · · · · ·
-	read are t	the equilibrium	rate of sprea	ad, not the l	build-up p	hase, with	continu	uous fuel	and similar	
fuel type. F ire Beh a	aviour	General:								\sim
Expect	ted fire	Fore	Forecast worst case – 28°C 45% RH slope 20° 1400-							
					1800				2	•
Fuel typ	e: Mati	ure Pine – 5m	n pruned		Fuelt	type: Ma	ture P	ine – 5n	n pruned	
Expect H	HF rate	of spread of	50 m/hr		Expec	et HF rate	e of sp	read of	200 m/hr	
HF Inter	nsity		800 kw/1	n	HF In	tensity	5	$\langle O \rangle$	2100 kw/m	
Flame le	engths		1.5-2		Flame	e lengths	$\langle C$		3 m	
Fuel typ	e: Scru	b/gorse 2m l	height		Fuel	type: Scr	ub/ go	rse 2m	height	
Expect H	HF rate	of spread of	1000 m/h	r	Expec	et HF rate	e of sp	read of	3000 m/hr	
HF Inter	nsity		10000 kw	/m	HF In	tensity		>	-10000 kw/n	n
Flame le	engths		6 m	C	Flame	e lengths			13 m	
Fuel typ	e: Gras	ss-80% GC, 10	0% cover, 0	.1m height	Fuelt	type: Ung	grazed	l Grass	-70% GC, 100)% cover,
				0	0.2m h	eight				
Expect H	HF rate	of spread of	200 m/h	r	Expec	et HF rate	e of sp	read of	600 m/hr	
HF Inter	nsity		350 kw	/m	HF In	tensity			1150 kW/	m
Flame le	engths	6	1 .2 m		Flame	e lengths			2 m	
Safety C	Conside	erations:								
Head Fin	re inten	sity, and flar	ık fire inte	nsity	Head	Fire inter	nsity e	exceed t	hreshold for	direct
exceed t	hreshol	d for direct a	ttack in g	orse/	attack	in gorse	and m	nature p	ine fuels, an	ıd flank
scrub fu	els.				fires i	n gorse. I	Flank	fires int	ensity is no	w too
2	-				high f	or groun	d crew	/S		
Summa	ry time	line: Based	on the Do	vedale we	eather sta	ation and	NIW	A forec	asting, Frida	ıy is

predicting to have NE winds stronger than Thursday.

I 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&9/2/2019	
	Time 1900 - 1900	RF

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

QR CODES FOR MAP DOWNLOAD

r	



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 Thurse	day 7 th February
PIM Manager –	C C C
PIM Manager 2IC -	
Media Manager -	
PIM Support –	- He

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 <u>Media@fireandemergency.nz</u>

	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.	Č
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		
		- KII		
Direct message dist	tribution Detail	s of the specifi	c sites or types	

	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
	05	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
	CO CO	Feb at 0900hrs at Appleby Fire Station.
	Media message distribution	Specific stations or publications
	Radio	*See media list
	Ø	The Project (TV) have requested for interviews with
		firefighters for tomorrow night's show (8 th Feb)
4	TV	
	Newspapers	
	Media	Schedule

Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.
Media site visits	None scheduled currently.
Interviews	Checkpoint interviewing John at 10pm tonight (07/02/19)
Message monitoring	
	Civil Defence PIM Team and dealt with / passed on accordingly. For Media management and FENZ / Operational information ared.
Prepared by:	Date: 7/2/19 1900hrs
	the Or
26	
JI	
eased under	

Incident Name

Operational Period



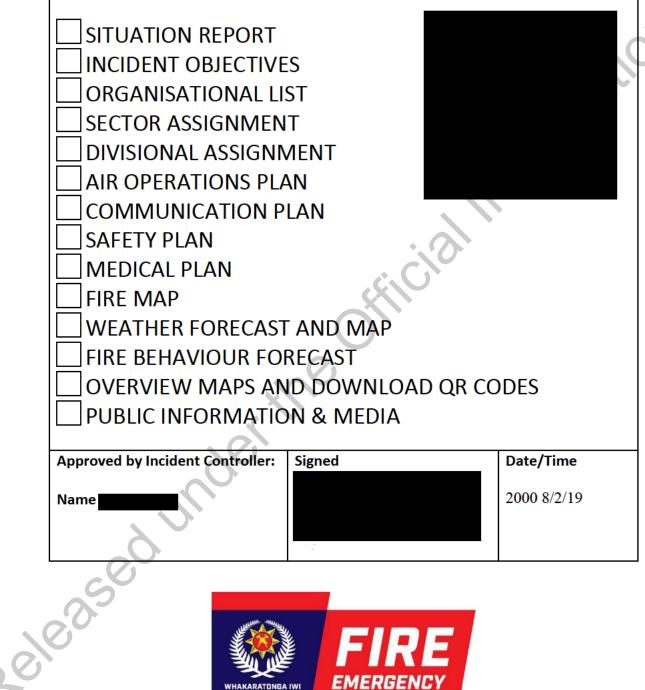
Pigeon Valley

Date 9/2/2019

Time 0700 - 1900

INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan





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.

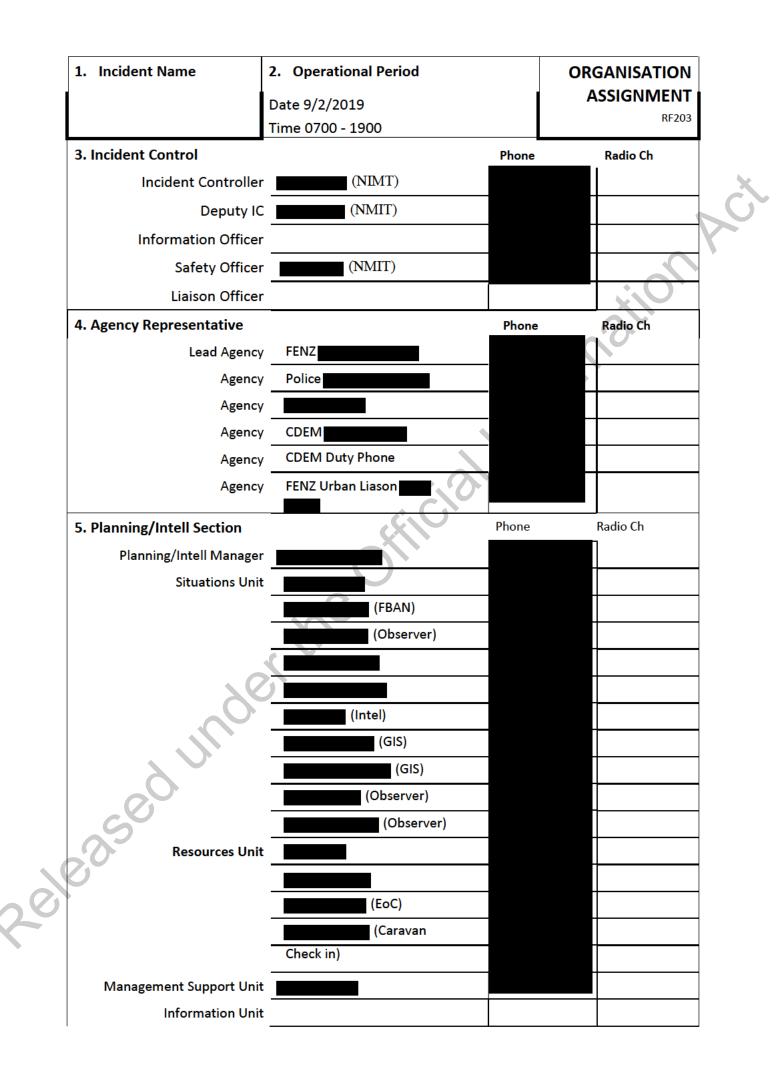
We actioned one Drone Team available for overnight surveillance, and the USAR Drone Team is arriving tomorrow.

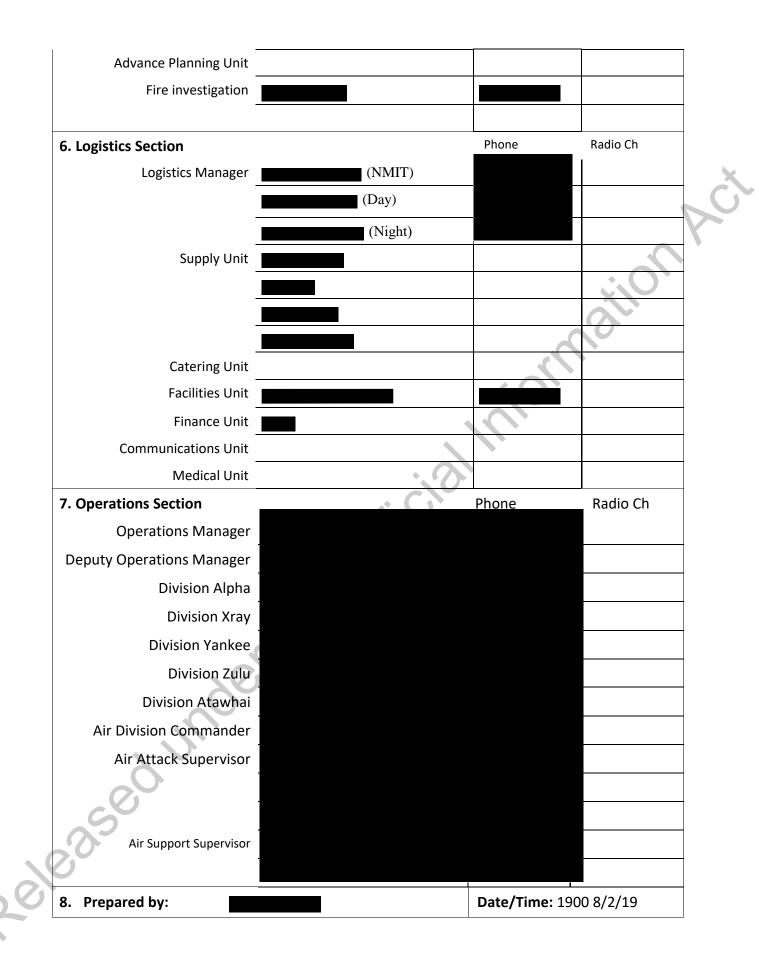
We have requested from R4 RCC additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

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

gus	reme fire conditions. Limited natural water supply. Steep terrain. Highly flammable aplex dense vegetation. Forecasted winds have been in place since 1100hrs of NE 20km, ting to 35km/hr. The wind strength and smoke is proving challenging for aerial rations.
	forecasted increase to Relative Humidity has occurred and should benefit the fighting operations as the day progresses.
9. Pre	dicted Incident Development
	ner forecasts are being updated every two hours, so we always have current information.
	ner conditions over the next two days involves strengthening northerlies with tions of wind gusts of up to N/NE 55km/hr predicted on Sunday.
establ reach other	ng forecasted conditions and the rates of spread experienced over recent days, we have ished a worst case scenario, by rate of spread modelling; that a running fire front would the Wai-Iti river by 1900 hrs and there would be the possibility of a new fire run on the side of the Pigeon Valley which would threaten a significant amount of structures on South
	n Valley Road.
	epared by: Date/Time: brised by (Incident Controller) 1900 8 th Feb 2019
	sed under the
	nder

1. Incident Name		2. Operational Period	INCIDENT
Pigeon V	/alley	Date 9/2/2019	OBJECTIVES
-	-	Time 0700 - 1900	RF202
3. Over	all Incident Obje	ectives	
1. E	Ensure the safet	y of responders and public at all ti	mes during the incident
		•	assets and values during the incident
	•	t on environment, culture and hist	e e
			ith stakeholders/ community/ public/
-			meets standards and requirements at
	all times during t		
		on a daily basis by 1800	
		ity to homes/normal life as soon a e (including protect initial ignition	
7. 1	investigate causi	e (including protect initial ignition	site and evidence)
			X
	egies to meet o	-	
		plan and safety briefing for all staff	
		stablish triggers and cordons for w	
		ts. Establish regular briefings and stake	cholders to establish communications
			tructures have structure protection
			courses and dip sites identified with
	environmental p		
	•	al/environmental values identified	d on incident ground (Actual and
	projected)		U
5. A	Assign fire invest	tigation to determine cause	
6. F	inancial reporti	ng established and continued	
7. (ry plan with community and stake	
•	 Consider op 	eration delivery to minimise impa	cts in support of the recovery plan.
~ · ··			
Specific	-	ks for this shift to meet objectives	
		king out to 30m in 10m increments	
		d monitor all fire edges, focusing on	
~0			ncluding cell phone towers, dairy farms
0		tures including Drones Road. to patrol and mop up	
		an 'initial attack capability' for the inc	sident
			sucht.





 Incident Name Pigeon Valley 		Dat	perational Peri e 9/2/2019 e 0700 - 1900	DIVISION ASSIGNMENT RF2044		
3. Division		4. Description				
Alpha	Point of ignition to Dove Saddle on Eder Rd					
5. Division Commander	Affiliatio	n	Phone		Radio Ch	
					Command: Fire Crew: Simplex	
6. Resources Assigned this Pe Sector	eriod	Suj	pervisor	Crews	Radio Ch	
Bulldozer D7	TL	2				
Excavator 20 T	TL	2				
Tasman Smoke Chaser + 3 PX	(603		
Hira Smoke Chaser + 3 PX						
Hira 5575 + 4 PX						
DOC Motueka +3 PX						
DOC Takaka + 8 PX						
DOC Nelson Lakes + 4 PX			<u>XV</u>			
DOC South Marlborough + 4	РХ					
JNL + 4 PX)			
 A1 Dozer to widen the break Smoke chaser and crews possible and safe. A2 Feller buncher to continu 	blacking	out to 3) m in 10m incr		-	
Helicopters to support groun	d crews.	Division	Commanders to	o call Air Atta	ck on Channel VHF 4 to	
request						
8. Division Communications				Phone	Radio Ch	
Operations Manager					Fire 1/Cellphon	
Air Division Commander					Fire 4/Cellphon	

Pigeon Va	 Incident Name Pigeon Valley 		2. Operational Period Date 9/2/2019 Time 0700 - 1900			A	DIVISION ASSIGNMENT RF204a	
3. Division	า			4. Description				
Xray	Xray			Division from Cut hill/Eder Rd to CH			to CHH s	aw mill
5. Division	5. Division Commander Affiliation		ion	Phone		Radi	Radio Ch	
							Fire 5	5
6. Resourc	ources Assigned this Period Sector			Superv	visor	Cre	ws	Radio Ch
D155 Doze	Dozer						(
Nicholson	Tanker	1	3,000	0				
Excavators	s X2						\sim	
Appleby T	anker							
Smoke Ch	aser Wainui 3px							
NZDF RFA	х7рх					\sim		
Invercargi	ill Crew + 5 PX							
AFM –	4рх							
	Otago Crew + 5 PX							
	-			Č				
Otago Cre Hurunui C X1 Mop u	ew + 5 PX Crew + 4 PX up with ground crev							
Otago Cre Hurunui C X1 Mop u X2 Check X3 Monito Helicopter	ew + 5 PX Crew + 4 PX	meter arc ons requi nd operat	ound	structur at this st	es. Ground o	crews to m	op up ar	nd patrol.
Otago Cre Hurunui C X1 Mop u X2 Check X3 Monito Helicopter VHF 4 v 8. Division	ew + 5 PX Crew + 4 PX up with ground creations and enhance perint or only, no operations rs to support groun with requirements	meter arc	ound	structur at this st	es. Ground o	crews to m	op up ar ders to c	nd patrol. Sall Air attack on
Otago Cre Hurunui C X1 Mop u X2 Check X3 Monito Helicopter VHF 4 v 8. Division Opera	ew + 5 PX Crew + 4 PX up with ground creation and enhance perint or only, no operation rs to support groun with requirements	meter arc	ound	structur at this st	es. Ground o	crews to m	op up ar ders to c	nd patrol. call Air attack on

1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900			A	DIVISION SSIGNMENT RF204a	
3. Division		4. Description					
Yankee	Yankee		Bennets Road to CHH saw mill at E			ves Valley	
5. Division Commander	Division Commander Affiliation		Phone		Radio Ch		
Wakefie		VFB			Fire 3		
6. Resources Assigned this Po Sector 2x Excavator 20T Bulldozer D8	eriod Taylo Taylo		visor	Crews	;	Radio Ch	
Brightwater 5026 + 3px					~		
Rural Tanker Downers + 1px					\leftarrow		
Brightwater 5011 + 3px				<u> </u>			
Stoke 221 + 5px							
Richmond 331 + 4px							
Ngatimoti + 4px				>			
Wellington 2 + 5 PX							
West Coast 2 + 5 PX And Smo	oke						
Chases and Tanks							
Chaser and Tanker Y1 Monitor existing fire brea		Ó					
	ound Eves V		l with machir	nery			
Y1 Monitor existing fire bread Y2 Clear defensible space ar Protect Mill and surround	ound Eves V		l with machin	Phone		Radio Ch Fire 1/Cellphone	
Y1 Monitor existing fire bread Y2 Clear defensible space ar Protect Mill and surround	ound Eves V		I with machin			Radio Ch Fire 1/Cellphone Fire 4/Cellphone	

1. Incident Name Pigeon Valley		2. Operational P Date 9/2/2019 Time 0700 - 1900	DIVISION ASSIGNMENT RF204a	
3. Division		4. Description		
Zulu		Division from Cut	t hill/Eder Rd to (CHH saw mill
5. Division Commander	Affiliation	Phone		Radio Ch
				Fire 2
6. Resources Assigned this Pe Sector	riod	Supervisor	Crews	Radio Ch
4x Excavator 20T	TLC	Supervisor	Crews	Nutro Ch
D65 Dozer				
Watertanker				
Tree and Forestry + 4px				
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 an Ground crews continue to Protection of structures ne ground crews mopping up. Helicopters to support ground VHF 4 with requirements 	nd structure mop up. ear top of Ec	der Rd by extendin		
8. Division Communications			Phone	Radio Ch
Operations Manager			Phone	Fire 1/Cellphone
				Radio ChFire 1/CellphoneFire 4/Cellphone1900 8/2/19

 Incident Name Pigeon Valley 	Date 9/2/2	2. Operational Period Date 9/2/2019 Time 0700 - 1900			DIVISION GNMENT RF204a	
3. Division		4. Descript	tion			KFZU4d
Property Assessments		Functional	division acro	oss Pigeon	Valley Incid	dent
5. Division Commander	Affiliation	Ph	none		Radio Ch	0
						X
6. Resources Assigned this Sector	Period	Superviso	or	Crews	Ń	Radio Ch
	FENZ	Liaison			0	
					\bigcirc	
				60		
 7. Division Assignment/Spectrum 1. The property assess responders and responders and responders and responders and responders and responders will be completed assessments will in and built structure weather. 2. The assessments weather. 	ssments are be sidents during for each prope nclude work or s. These will b	eing planned visitation an erty, surroun n danger tree e reviewed i	nd reoccupat ding area an es, condition n relation to	ion. Fire da d access ro of surroun incident st	anger risk a outes. The r iding flamn tatues and	ssessments risk nable fuels predicted
 The property asses responders and res will be completed assessments will in and built structure 	ssments are be sidents during for each prope nclude work or s. These will b vill include staf ations will be n d	eing planned visitation an erty, surroun n danger tree e reviewed i ff from Civil o naintained w	nd reoccupat ding area an es, condition n relation to defence, FEN with division o	ion. Fire da d access ro of surroun incident st Z and spec	anger risk a outes. The r oding flamm tatues and cialist contr	ssessments risk nable fuels predicted ractors as
 The property assess responders and responders and responders and responders and respondered assessments will in and built structure weather. The assessments weather. The assessments weather. Liaison communication the incident ground 	ssments are be sidents during for each prope nclude work or s. These will b vill include staf ations will be n d sessments to l	eing planned visitation an erty, surroun n danger tree e reviewed i ff from Civil o naintained w	nd reoccupat ding area an es, condition n relation to defence, FEN with division o	ion. Fire da d access ro of surroun incident st Z and spec	anger risk a outes. The r iding flamm tatues and cialist contr ers at all tim	ssessments risk nable fuels predicted ractors as
 The property assess responders and responders and responders and responders and responses will be completed assessments will in and built structure weather. The assessments will required. Liaison communication the incident ground. Timeline for the assessment as a second structure of the assessment as a second structure. 	ssments are be sidents during for each prope nclude work or s. These will b vill include staf ations will be n d sessments to l	eing planned visitation an erty, surroun n danger tree e reviewed i ff from Civil o naintained w	nd reoccupat ding area an es, condition n relation to defence, FEN with division o	ion. Fire da d access ro of surroun incident st Z and spec commande	anger risk a butes. The r iding flamm tatues and cialist contr ers at all tim	ssessments risk nable fuels predicted ractors as nes when on
 The property assess responders and responders and responders and responders and responders and responders will be completed assessments will be completed assessments will in and built structure weather. The assessments will in and built structure weather. The assessments will required. Liaison communication Timeline for the assessment group Timeline for the assessment as a second structure of the assessment of the as	ssments are be sidents during for each prope nclude work or s. These will b vill include staf ations will be n d sessments to l	eing planned visitation an erty, surroun n danger tree e reviewed i ff from Civil o naintained w	nd reoccupat ding area an es, condition n relation to defence, FEN with division o	ion. Fire da d access ro of surroun incident st Z and spec commande	anger risk a butes. The r iding flamm tatues and cialist contr ers at all tim	ssessments risk nable fuels predicted ractors as nes when on Radio Ch

 Incident Name Pigeon Valley 	D	. Operational Peric ate 9/2/2019 ime 0700 - 1900	od		DIVISION GNMENT RF204a
3. Division	4	. Description			11 2040
Rabbit Island	R	abbit Island			
5. Division Commander	Affiliation	Phone		Radio Ch	
				Fire 3	
6. Resources Assigned this Po Sector		Supervisor	Crews		Radio Ch
					· · · · · · · · · · · · · · · · · · ·
			×0		
Forest owner to inspect site t evening.	comorrow. Planr	ned thermal drone	flight schedul	led for tom	orrow
evening.	comorrow. Planr	ned thermal drone	flight schedul		Radio Ch
evening. 8. Division Communications Operations Manager	comorrow. Planr	ned thermal drone		<i>I</i> ∎ Fire	Radio Ch 1/Cellphone
evening.	comorrow. Plann	ned thermal drone		Fire ■ Fire	Radio Ch 1/Cellphone 4/Cellphone

Pigeon Valley	2. Operational Per Date 9/2/2019 Time 0700 - 1900			
3. Division Atawhai		4. Description		RF204
5. Division Commander	Affiliation	Phone		Radio Ch
	FENZ			
6. Resources Assigned this Sector	Period	Supervisor	Crews	Radio Ch
			100	
Dozer to create fire line arc Ground crews hot spotting				
	X			
edund	25 ×			
8. Division Communication	s		Phone	Radio Ch
8. Division Communication Operations Manager	S		Phone	Radio Ch

1. Incident Nam	e 2. O	perational F	'eriod		AIR O	PERATIONS PLAN
Pigeon Valley	Date	9/2/2019				RF208
	Time	e 0700 - 190	0			
3. Personnel and Co	ommunication	S			I	
Position		Name		Affiliatio	n Phone	Radio Chan
Air Div Comm	iander					
Air Attack Supe	ervisor					Fire 4
Air Support Supe	ervisor					
Lead Helicopte	r Pilot					
Lead Fixed-Win	g Pilot					
4. Air Resource Ass	-					
Pilot Name/	Aircraft	Reg or	Assign-	Tactical	Name	Telephone
Company	Туре	Call sign	ment	Freq/Chan		Numbers
Becks	UH-1	HHF		Fire 4		
Becks	UH-1	ннв		Fire 4		
Helicharter	500D	HXX		Fire 4		
Garden City Heli	B3	IHL		Fire 4		
Garden City Heli	EC130	IGF		Fire 4		
Garden City Heli	ВК	IVB	<u> </u>	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	НТА		Fire 4		
Skyworks	Ranger B3	HWW		Fire 4		
Amuri Heli	FX2	HJM	+	Fire 4		
Amarrien						
Anderson	B2	НКА		Fire 4		
Independent Heli	EC130	IWS		Fire 4		
Christchurch Heli	B2	HNC		Fire 4		
	<u>.</u>					
Wanaka Heli	B2	HFF		Fire 4		
		HYS		Fire 4		
Mt Hutt Heli Heliventures	BA B2	IER		Fire 4 Fire 4		
Murchison Heli	BA	ILW		Fire 4		
Wurthison Heir	DA			FILE 4		
	Cresco			Fire 4		
	Airtractor		1	Fire 4		
Interpine	RPAS /	PINES1		Fire 4		
	UAV					
5. Location of Filling	g Points/Servi	ce Areas				
	Name				Grid Reference	
Heli base			-41.317	77, 137.10987		
Fixed wing			+	-		

 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 	
8. Prepared By:	Date/Time: 1900 8/2/19
eased under the	efficial information

1. Incident Name	2. Operational Period			COMMU	JNICATION
Pigeon Valley	Date 9/2/2019				PLA
3. Radio Channels		Time 0700 - 19	00		RF20
Assigned To	Function	Channel	Frequency	Sys	tem
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	5
Division Yankee	Operational	Fire 3	140.9250	0	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		
Resources		Waimea 1	152.55000 RX		
FireCom		FireCom	154.33125 TX		
2 Hourly - Sitrep		OPSR2	Use mobile if di	fficult coms to	
4. Telephone			ose mobile il di		
Assigned To	Landline	Cell phone	Fax	Comi	nents
Emergency		111			
Regional Command Centre (RCC)	24	0			
6. Other (e.g. email, Sat	phone, etc)				
Resources	resources@FEN	NZNelsonIMT.com	<u>.</u>		
Safety	safety@FENZN	elsonIMT.com			
Logistics	logistics@FENZ	NelsonIMT.com			
PIM	pim@FENZNels	sonIMT.com			
Planning	planning@FENZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fire	eemergency.nz			
Situation / GIS / Intel	situation@FENZNelsonIMT.com				
Operations	operations@FENZNelsonIMT.com				
Photos and imagery	Join Facebook	site; Pigeon Vall 1MS			acebook.com/ 32991035550/
6. Prepared by:			D	ate/Time 190	00 8/2/19
1. Incident Name		2. Operation	nal Period		

Pigeon Valley

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 (Complete DTR's).

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

LACES **Fire Orders** Watchouts 1. conditions and forecasts 1. Fire size is unknown (no size up) **L** - Lookout(s) 2 Know what your fire is doing at all 2. Unfamiliar territory 3. Safety zones and escape routes not identified. times. A – Awareness 4. Unfamiliar with weather and local factors 3. Base all actions on current and expected influencing fire behaviour. fire behaviour of the fire. - Anchor Point(s) 5. No communications link with crew members 4. Identify escape routes and safety zones or supervisor. **C** – Communication(s) and make them known. Instructions and assignments not clear. 6. Post lookouts when there is possible 5. Weather is getting hotter, drier and relative 7. \mathbf{E} – Escape Route(s) danger. humidity dropping 8. 9. Wind increases and/or changes direction. Stay alert. Keep calm, Think clearly, act S - Safety Zone(s)6. Getting frequent spot fires across the line decisively. 10. Working uphill or down wind of a fire 7. Maintain prompt communication with 11. Working on a steep slope your crew/s, your supervisor and 12. Working in rugged terrain adjoining crews. 13. Can't see main fire 8 Give clear instructions and ensure they 14. In unburnt vegetation are understood. 15. Walking through hot ashes 16. Working alone 9 Maintain control of your crew/s at all 17. Getting tired times. 18. Working near power lines 10. Fight fire aggressively having 19. Working near machinery provided for safety first. 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.

5. Prepared By:

Date/Time 1900 8/2/19

1. Incident Name		2. Operatio		MEI	DICA			
Pigeon Valley		Date 8/2/20 Fime 0700-2				PLAN		
				. /			RF20	
3. First Aid Station Name	Loca	tion	Phon Chai	e/Radio nnel	available	nedics at Stat	ion	
Each Crew must have available one First aid Level 1 Certified	Each crew	I					P	
Nelson 91 Ambulance	Forward command	l post	Waim	ea 1	1 Paramedic	and 1 E	EMT	
					0			
				\$				
4. Transportation Ambulance Service	Addı	ress		e/Radio nnel	Paran available wi	nedics th Amb	ulanc	
Ambulance St Johns	Closest ur	nit	111		Yes			
5. Hospitals Hospital Name	Address	Ph	none	Road	<u>Travel Time</u> Air	Burn Unit	He Pac	
Nelson Public Emergency	Waimea Ro	1. 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 facil	ity is app	propriate				
80								
7. Prepared By:	Shift - Ma	nager Nelso	on D	ate/Tim	e 1900 8/2/19)		
		-						

<u>4 pm Friday – 6 am Saturday</u>

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.

<u>6 am – 6 pm Saturday</u>

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:

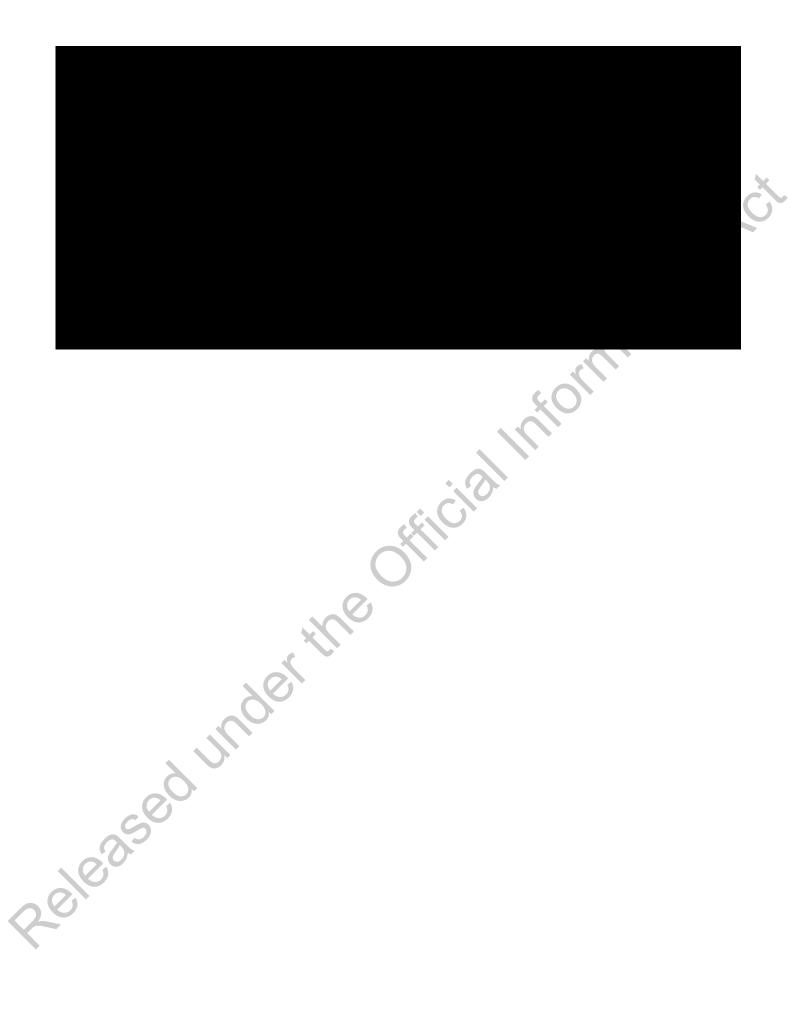
Afternoon showers possible Afternoon wind gusts up to 40 km/h possible. Maximum temperature 23-24°C.

FIRE BEHAVIOUR FORECAST

Belaviour General: Fire Behaviour – slope 0° (expected fire front) Forecast worst case – 28°C 45% RH slope 20° <i>Fuel type: Forest/Scrub/gorse mix Fuel type: Forest/Scrub/ gorse mix</i> Expect HF rate of spread of 1000 m/hr Expect HF rate of spread of 3000 m/hr HF Intensity 10000 kw/m Flame lengths 13 m <i>Fuel type: Grass-80% GC, 100% cover, 0.1m height Fuel type: Ungrazed Grass -70% GC, 100% 0.2m height</i> Expect HF rate of spread of 200 m/hr Expect HF rate of spread of 600 m/hr HF Intensity 380 kw/m HF Intensity 1150 kW/m Flame lengths 1.3 m Flame lengths 2 m Safety Considerations: Head Fire intensity, and flank fire intensity Head Fire intensity exceed threshold for cover attack in forest/	Day Shift Assumptions: Dovedale weather station Saturday's forecast Temp RH Wind Saturday's forecast Temp RH Wind Saturday's forecast Temp RH Wind Saturday's forecast 22 68 100 Asturday's forecast Colspan= 26% FORE Expected fire behaviour General: Expected fire behaviour General: Forecast worst case – 28%C 45% RH slope 20° 1400-1800 Forest/Scrub/ gorse mix Expect HF rate of spread of 1000 m/hr Expect HF rate of spread of 200 m/hr Flame lengths 13 m Fue	Forecast	by:									7	
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1. Incident Name	2. Operational Period	MAPS				
Pigeon Valley	Date 9/2/2019					
	Time 0700-1900	RF				
3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps						

QR CODES FOR MAP DOWNLOAD



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 Thurse	day 7 th 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	Requires regular	RCC	
(forward system	updates –	Christchurch	and cc,
to ELT, NCC, OCE	committed to 4x		and
and Board)	updates daily at		Media@fireandemergency.nz
	0800hrs, 1100hrs,		

	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.	č
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		
		, Elle		
Direct message dist	tribution Detail	s of the specifi	c sites or types	

	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 shannah Nahan Tannan Civil Dafanan farahash nan
	Social media	Main channel: Nelson Tasman Civil Defence facebook page Tasman-Malborough Fire Area facebook page
		rasman-maiborougn me Area racebook 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
	Notice	The Project (TV) have requested for interviews with
- 0		firefighters for tomorrow night's show (8 th Feb)
0-0	TV	
	Newspapers	
	Media	Schedule

	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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Incident Name

Operational Period

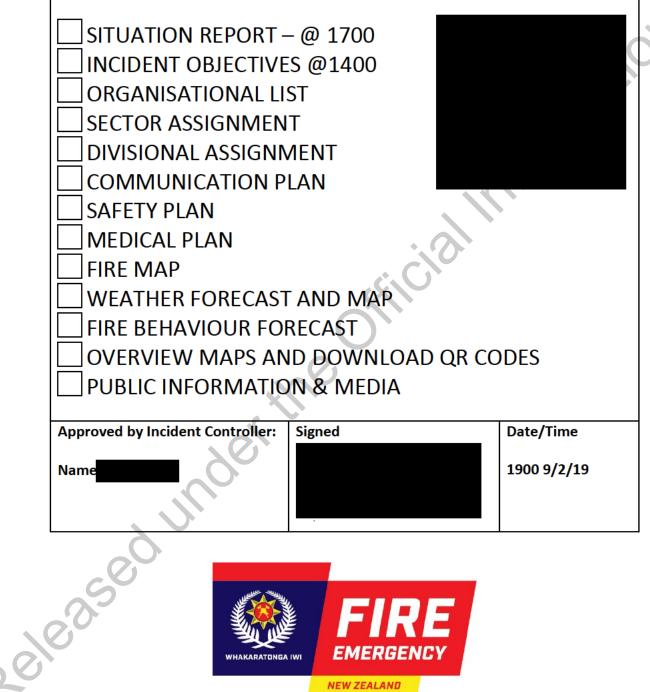


Pigeon Valley

Date 9&10/2/2019 Time 1900 - 0700

INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan





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.

210250

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 helicoprural 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 monitorir

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.

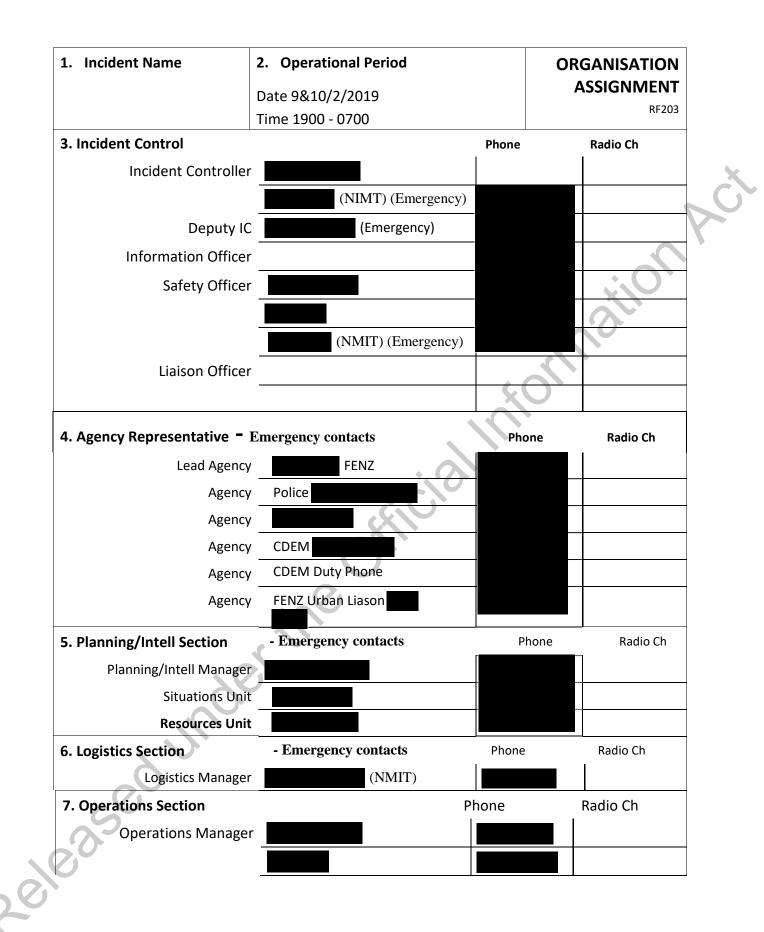
Weather conditions are reaching their peak for the day and are in line with those predicted. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon, and the potential for N/NE gusting 40km/hr localised for Sunday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

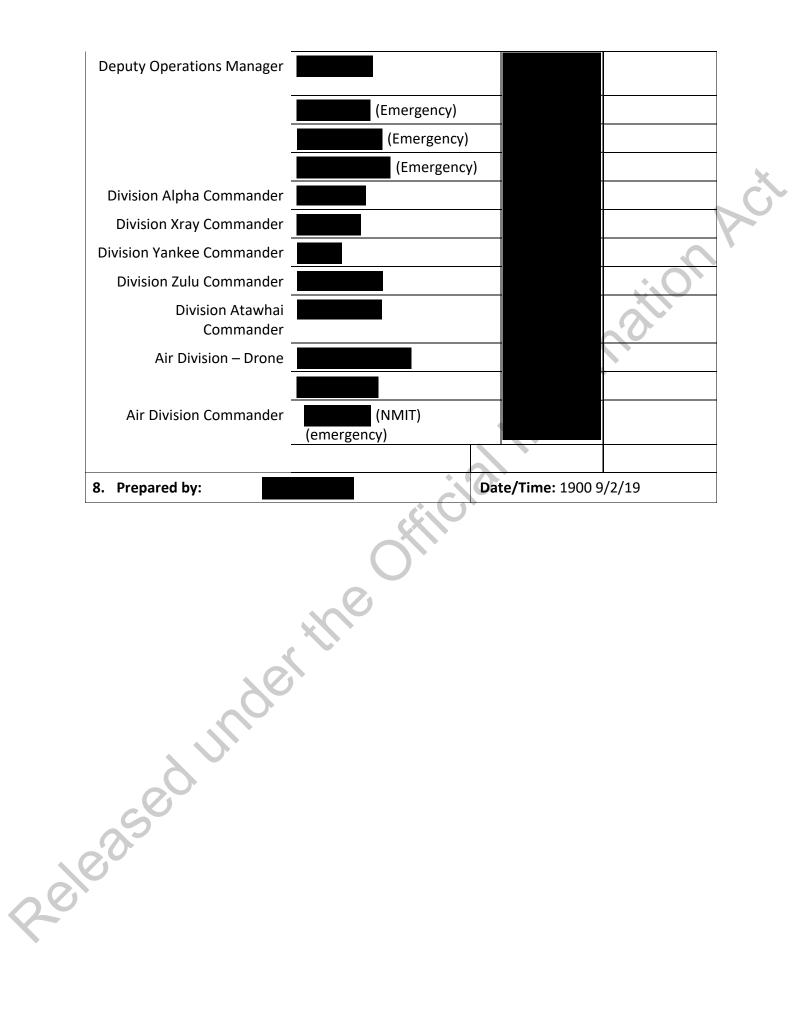
Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-Iti river by 1900 hrs and there would be the possibility of a new fire run on the other side of the 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:
	Authorised by	(Incident Controller)	1500 9 th Feb 2019

eleased under the official

1. Inci	dent Name	2. Operational Period	INCIDENT	
Pigeo	n Valley	Date 9&10/2/2019 Time 1900 - 0700	OBJECTIVES	
3. Ov	erall Incident Objecti		RF202	
	1. Ensure the safety of responders and public at all times during the incident			
2.				
3.	•	environment, culture and historic va	-	
4.	Ensure communicat	tion and information, liaison with stak	ceholders/ 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.		to homes/normal life as soon as pract		
7.	Investigate cause (in	ncluding protect initial ignition site an	id evidence)	
	ategies to meet obje			
1.		and safety briefing for all staff and co		
		blish triggers and cordons for withdra		
2.		community channels and stakeholder		
2		Establish regular briefings and update		
3.	-	astructure, assets and values. Structur	-	
		liaison where required. Water course	es and dip sites identified with	
Л	environmental prot	environmental values identified on in	cident ground (Actual and	
4.	projected)	environmental values identified on in	cident ground (Actual and	
5		tion to determine cause		
6.		established and continued		
		lan with community and stakeholders	s to assist post incident.	
		ition delivery to minimise impacts in s	-	
5. Spe	cific operational tas	ks for this shift to meet objectives		
	 Crew blacking 	g out to 30m in 10m increments		
	 Patrol, and m 	onitor all fire edges, focusing on		
	 Protection of 	identified structures and assets including	g cell phone towers, dairy farms	
	and structure	s in Drones Rd, Teapot Valley, Pigeon Va	lley and Mill.	
	 Continue to p 	patrol and mop up		
		rengthen firebreaks		
	Management	of prescribed burn		
Heavy machinery to reinforce firebreaks and establish new lines identified in sectors.				
0.0	Urban appliances tasked for structure protection.			
S	Drone hotspo	ot and perimeter surveys.		
	epared by:		Date/Time: 1600 9/2/19	
5. Pre			Date/ IIIIe. 1000 9/2/19	





<u> </u>	 Incident Name Pigeon Valley 				od	DIVISION ASSIGNMENT RF204.
3. Division		4. Description		11201		
Alpha		Point of ignition to I	Dove Saddle on I	Eder Rd		
5. Division Commander	Affiliation	Phone	Ro	adio Ch		
				V		
6. Resources Assigned this	Period		L	· · · ·		
Sector		Supervisor	Crews	Radio Ch		
D65 Dozer						
D7 Dozer				-0		
210 Excavator						
772-4 Grader			03			
850-2 Dozer						
NFM 8px Crew						
•			~			
7. Division Assignment/Sp - Widen Heines and Foxes I Rds with break. - Continue to widen Eder R	Rd to Sunrise V	alley then along base				
 Widen Heines and Foxes I Rds with break. Continue to widen Eder R Keep remaining machiner Crews blanking out to 30r 	Rd to Sunrise V d from Cuthill y staged for im n in 10m incre pundary and ev	'alley then along base Rd to Rout Rd and Rou nmediate response - Sl	ut Rd down to Pi harp Valley			
 Widen Heines and Foxes I Rds with break. Continue to widen Eder R Keep remaining machiner Crews blanking out to 30r A1 Patrol to ford bc A2 – x2 patrol either 	Rd to Sunrise V d from Cuthill y staged for im n in 10m incre oundary and ev r way	'alley then along base Rd to Rout Rd and Rou nmediate response - Sl ments raluates ridge, to liaise	ut Rd down to Pi harp Valley e with A2.	geon Valley		
 Widen Heines and Foxes I Rds with break. Continue to widen Eder R Keep remaining machiner Crews blanking out to 30r A1 Patrol to ford bc A2 – x2 patrol either 	Rd to Sunrise V d from Cuthill y staged for im n in 10m incre oundary and ev r way I on Sharps Rd arps rd to Cuthi	'alley then along base Rd to Rout Rd and Rou nmediate response - Sl ments raluates ridge, to liaise	ut Rd down to Pi harp Valley e with A2.	geon Valley		
 Widen Heines and Foxes I Rds with break. Continue to widen Eder R Keep remaining machiner Crews blanking out to 30r A1 Patrol to ford bo A2 – x2 patrol either Alpha 1 - Div break to Foro Alpha 2 – From ford on Shares	Rd to Sunrise V d from Cuthill y staged for im n in 10m incre oundary and ev r way I on Sharps Rd arps rd to Cuthi	'alley then along base Rd to Rout Rd and Rou nmediate response - Sl ments raluates ridge, to liaise	ut Rd down to Pi harp Valley e with A2. ection (updated I	geon Valley Div break)		
 Widen Heines and Foxes I Rds with break. Continue to widen Eder R Keep remaining machiner Crews blanking out to 30r A1 Patrol to ford bo A2 – x2 patrol either Alpha 1 - Div break to Force Alpha 2 – From ford on Share 8. Division Communication	Rd to Sunrise V d from Cuthill y staged for im n in 10m incre oundary and ev r way I on Sharps Rd arps rd to Cuthi	'alley then along base Rd to Rout Rd and Rou nmediate response - Sl ments raluates ridge, to liaise	ut Rd down to Pi harp Valley e with A2. ection (updated I	geon Valley Div break)		

	 Incident Name Pigeon Valley 		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700			DIVISIO ASSIGNMEN RF20	
	3. Division		4. Desc	ription			11 2044
	Хгау		Divisio	n from Cut hil	l Johnsons R	d to CHH saw	mill
	5. Division Commander	Affiliation		Phone		Radio Ch	
	6. Resources Assigned this P Sector Packer Crew	eriod	Super	visor	Crews	s Ri	adio Ch
	AFM Crew					0	
	Appleby Crew					\mathbf{C}	
	Brightwater Tank 5075+ Crev	v					
	Upper Takaka CAF + Crew						
	RT 210B Excavator						
	RT 210A Excavator						
	RD JD850 Dozer			0			
	Higgins Tanker		C				
	 7. Division Assignment/Spece X1 Mop up and patrol f X2 Patrol and protect s X3 Monitor Area Xray 1 – Cuthill/Johnsons Ret Xray 2 - 5423000/1603000 t Xray 3 - Redwood Valley Rd 	following press tructures ed intersection o intersection	n (new D	iv break) to 54 vood Valley R	d and Red S		
80	8. Division Communications Operations Manager				Phone		ndio Ch
	10. Prepared By:				Date/Time	e 1900 9/2/19	

 Incident Name Pigeon Valley 		2. Operationa Date 9&10/2/2 Time 1900 - 07	2019		DIVISION GNMENT RF204a
3. Division		4. Description			112048
Yankee		Bennets Road	to CHH saw mill	at Eves Valley	/
5. Division Commander	Affiliation	Phone	?	Radio Ch	
					V
6. Resources Assigned this Sector	Period	Supervisor	Cre	ws	Radio Ch
Wainui 541					
Upper Takaka + 7px					
210 Excavator				$\langle \cdot \rangle$	
240 Excavator			Ś.C		
336 Excavator					
D8 Dozer					
Mop up and patro • Y2 Tree felling machin Patrols to protect Yankee 1 – South edge of n Yankee 2 – Xray div break	nery to remove mill and surrou nill to div bre	ak at Zulu	d mill.		
8. Division Communication Operations Manager	S		Pho	ne	Radio Ch

1. Incident Name Pigeon Valley		2. Operational P Date 9&10/2/20	19	DIVISION
		Time 1900 - 070	D	RF204a
3. Division		4. Description		
Zulu		Point of ignition	to CHH saw mill	
5. Division Commander	Affiliation	Phone		Radio Ch
				V
6. Resources Assigned this	Period			
Sector	I	Supervisor	Crews	s Radio Ch
AFM Crew 4px				X
Bears Smoke Chase				
Maraharu VRRF smoke Cha	ser			\mathcal{A}
Bears Tanker				
Puklowski Tanker			SO 2	
Brightwater 5071 – Rural A	ppliance			
Takaka 391 Urban applianc	e	•		
Wainui Urban appliance		. 0		
D8 Dozer				
155-6 Dozer		- AN		
21T Excavator				
26T Excavator		\mathbf{O}		
	C	7,		
7. Division Assignment/Sp	ecial Instruct	ions		
Fire break from Bradely's g			atkins Lane and o	down ridge to sealed
area of Golf Rd.	0			
• Z1:				
		and Wai-iti streams		
Structural protect Z2 	ion in pigeon v	alley.		
	on in Teapot V	alley and surround		
Structure protecti		ancy and surround		
Zulu 1 – Alpha div break to Ba	arton Lane			
Zulu 2 – Barton lane to Yanke				
*				
8. Division Communication	IS		Phone	Radio Ch
Operations Manager	-			

8	3. Division Communications	Phone	Radio Ch
	Operations Manager		
1	12. Prepared By:	Date/Time 1900	9/2/19

 Incident Name Pigeon Valley 		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700			
3. Division Atawhai		4. Description		RF20	
5. Division Commander	Affiliation	Phone		Radio Ch	
6. Resources Assigned this Sector	Period	Supervisor	Crews	Radio Ch	
Night				0	
Mitchell 6px				\sim	
Nelmac 4px					
Tasman Smoke Chaser					
Hira Smoke Chaser		•			
		.0			
		C.C.			
	0				
Ground crew to continue to Deeper seated spots need to		blacken out.			
8. Division Communication	S		Phone	Radio Ch	
Operations Manager					
13. Prepared By:			Date/Time	1900 9/2/19	

3. Personnel and Communications Position Name Affiliation Phone Radio Chan Air Div Commander (Emergency) Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Affiliation Phone Radio Chan Air Div Commander Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" 4. Air Resource Assignments Image: Colspan="2">Tactical Name Name Telephone Company Type Call sign ment Freq/Chan Numbers Numbers Interpine RPAS / PINES2 Fire 4 Image: Colspan="2" Numbers Numbers Uav UAV PINES2 Fire 4 Image: Colspan="2" Image: Colspan="2	1. Incident Nam Pigeon Valley	D	. Operational ate 9&10/2/20 ime 1900 - 070	2019			AIR OPERATIONS PLAN RF208		
Air Division – Drone Image: Second Secon	Position	ommunica	tions Name		Affiliatio	on	Phone	Radio Chan	
Pilot Name/ Company Aircraft Type Reg or Call sign Assign- ment Tactical Freq/Chan Name Telephone Numbers Interpine RPAS / UAV PINES1 Fire 4 Interpine RPAS / UAV PINES2 Fire 4 Usar RPAS / UAV PINES2 Fire 4 Interpine Grid Reference S. Location of Filling Points/Service Areas Name Grid Reference Heli base -41.31777, 137.10987 Fixed wing 41 22 39.9 \$ 173 05 04.6 E G. Safety Notes / Hazards / Radio Coverage Limitations 7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared									
Pilot Name/ Company Aircraft Type Reg or Call sign Assign- ment Tactical Freq/Chan Name Telephone Numbers Interpine RPAS / UAV PINES1 Fire 4 Interpine PAS / UAV PINES2 Fire 4 Usar RPAS / UAV PINES2 Fire 4 Interpine Fire 4 S. Location of Filling Points/Service Areas Name Grid Reference Interpine Grid Reference Heli base -41.31777, 137.10987 Fixed wing 41 22 39.9 \$ 173 05 04.6 E E 6. Safety Notes / Hazards / Radio Coverage Limitations Jone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19									
Pilot Name/ Company Aircraft Type Reg or Call sign Assign- ment Tactical Freq/Chan Name Telephone Numbers Interpine RPAS / UAV PINES1 Fire 4 Interpine PAS / UAV PINES2 Fire 4 Usar RPAS / UAV PINES2 Fire 4 Interpine Fire 4 Usar RPAS / UAV PINES2 Fire 4 Interpine Interpine S. Location of Filling Points/Service Areas Name Grid Reference Interpine Grid Reference Heli base -41.31777, 137.10987 Fixed wing 41 22 39.9 \$ 173 05 04.6 E E 6. Safety Notes / Hazards / Radio Coverage Limitations Jate/Time: 1900 9/2/19 Date/Time: 1900 9/2/19									
Interpine RPAS / UAV PINES1 Fire 4 Interpine RPAS / UAV PINES2 Fire 4 Usar RPAS / UAV PINES2 Fire 4 Usar RPAS / UAV PINES2 Fire 4 S. Location of Filling Points/Service Areas Name Grid Reference Heli base -41.31777, 137.10987 Fixed wing 41 22 39.9 \$ 173 05 04.6 E 6. Safety Notes / Hazards / Radio Coverage Limitations Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19	Pilot Name/	Aircraft				Name			
Interpine RPAS / UAV PINES2 Fire 4 Usar RPAS / UAV PINES2 Fire 4 5. Location of Filling Points/Service Areas Name Grid Reference Heli base -41.31777, 137.10987 Fixed wing 41 22 39.9 \$ 173 05 04.6 E 6. Safety Notes / Hazards / Radio Coverage Limitations 7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19	company	туре		ment	Freq/Chan			Numbers	
UAV Image: Construct of	Interpine		PINES1		Fire 4				
UAV 5. Location of Filling Points/Service Areas Name Grid Reference Heli base -41.31777, 137.10987 Fixed wing 41 22 39.9 \$ 173 05 04.6 E 6. Safety Notes / Hazards / Radio Coverage Limitations 7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19	Interpine		PINES2		Fire 4				
Name Grid Reference Heli base -41.31777, 137.10987 Fixed wing 41.22 39.9 \$ 173 05 04.6 E 6. Safety Notes / Hazards / Radio Coverage Limitations	Usar		PINES2		Fire 4				
Heli base -41.31777, 137.10987 Fixed wing 41 22 39.9 \$ 173 05 04.6 E 6. Safety Notes / Hazards / Radio Coverage Limitations 7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19	5. Location of Fillin	g Points/S	ervice Areas	-		5			
Fixed wing 41 22 39.9 \$ 173 05 04.6 E 6. Safety Notes / Hazards / Radio Coverage Limitations 7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19		Name		44.247	77 407 40007		eference		
6. Safety Notes / Hazards / Radio Coverage Limitations 7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19									
7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared 8. Prepared By: Date/Time: 1900 9/2/19		azards / Ra	adio Coverage Lir		.9 5 173 05 04.	.6 E			
	Drone operations a						t with infrarec	1	
		J	50	C	Date/Time: 190	00 9/2/19			

1. Incident Name		2. Operational Period		COMMUNICATIONS
Pigeon Valley		Date 9&10/2/2		PLAN
3. Radio Channels		Time 1900 - 07	/00	RF205
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	Lise mobile if di	
4. Telephone				
Assigned To	Landline	Cell phone	Fax	Comments
Emergency		111		
Regional Command Centre (RCC)				
6. Other (e.g. email, Sat	tphone, etc)		· · · ·	
Resources	resources@FE	NZNelsonIMT.con	<u>n</u>	
Safety	safety@FENZN	elsonIMT.com		
Logistics	logistics@FENZ	ZNelsonIMT.com		
PIM	pim@FENZNelsonIMT.com			
Planning	planning@FENZNelsonIMT.com			
Forward Control Point (FCP)	icu.nelson@fireemergency.nz			
Situation / GIS / Intel	situation@FENZNelsonIMT.com			
Operations	operations@FI	ENZNelsonIMT.co	<u>m</u>	
Photos and imagery	Join Facebook INTERNAL CON	site; Pigeon Vall /IMS	•	nttps://www.facebook.com/ groups/1924082991035550/
	l			

1. Incident Name	2. Operational Period	SAFETY PLA
Pigeon Valley	Date 9&10/2/2019	
	Time 1900 - 0700	RF
3. General Safety Points	S	
Everyone is to be signed in a payment records (Complete		e Incident Control Point for both safety check and
Maintain regular situation re supervisors.	eports especially kestrel observations	s (containing all relevant information) via line
LACES	Fire Orders	Watchouts
L - Lookout(s)	 conditions and forecasts Know what your fire is doing at all 	 Fire size is unknown (no size up). Unfamiliar territory
A – Awareness	times.	 Safety zones and escape routes not identified. Unfamiliar with weather and local factors influencing :
 Anchor Point(s) 	3. Base all actions on current and expected fire behaviour of the fire.	behaviour.
	4. Identify escape routes and safety	5. No communications link with crew members or supervisor.
C – Communication(s)E – Escape Route(s)	zones and make them known.5. Post lookouts when there is	 Instructions and assignments not clear. Weather is getting hotter, drier and relative humidity
\mathbf{S} – Safety Zone(s)	possible danger.6. Stay alert. Keep calm, Think clearly, act decisively.	dropping 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line
	 7. Maintain prompt communication 	10. Working uphill or down wind of a fire
	with your crew/s, your supervisor and adjoining crews.	 Working on a steep slope Working in rugged terrain
	 8. Give clear instructions and ensure 	 Car't see main fire In unburnt vegetation
	they are understood.	15. Walking through hot ashes
	 Maintain control of your crew/s at all times. 	 16. Working alone 17. Getting tired
	10. Fight fire aggressively having	 18. Working near power lines 19. Working near machinery
	provided for safety first.	20. Working with aircraft
4. Specific Safety Points		21. Working around trees or spars
 logged including tim Public access manag Weather fire behavi data. Risk identified All crews to have ad Work rest periods e Ensure nine-hour re Crews to have ident identified evacuatio All workers to ensur Air and ground crew Potential methane f Avoid skid sites whe Particular care in sm Ensure operational s Follow carpark signa Report all incidents Be sun smart, use ha Drive carefully in the 	ne and point of access ged by cordons iour monitored for changes and comm I to crews. dequate food, water, PPE to manage fa enforced. Seek shade during rest period est periods before returning to fire gro	d. nund. mergency plan in the eventof harm. Meeting at pre- nd risks given. g operations. ey Landfill. Avoid if possible. red. smoke. mmand post
-	speed 20 km/hr. Use beacons/ lights e	atc.
 Forestry track road : 	speed 20 km/m. Ose beacons/ lights (

	1. Incident Name Pigeon Valley		2. Operatio Date 9&10 Time 1900		MEDICAL PLAN RF206			
	3. First Aid Station Name	Loc	cation		ne/Radio Innel	Paran available	nedics at Stat	ion
	Each Crew must have available one First aid Level 1 Certified	Each cre	2W					P
	Nelson 91 Ambulance	Forward commai		Wain	nea 1	1 Paramedic	and 1 E	MT
						A CO		
	4. Transportation Ambulance Service	 	dress		ne/Radio Innel	Paran available wit	nedics th Amb	ulance
	Ambulance St Johns	Closest	unit	111		Yes		
	5. Hospitals Hospital Name	Addres		hone	Road	<u>Travel Time</u> Air	Burn Unit	Heli Pad
	Nelson Public Emergency	Waimea	Rd. 111		27m	4min	У	У
	Hutt Hospital (Burn Unit)		111		n/a	40min	Y	У
20	6. Special Emergency Procedur St John will transport patients t		er health fac	ility is ap	propriate			
	7. Prepared By:	Shift - N	1anager Nels	on I	Date/Tim	e 1900 9/2/19)	
	8. Reviewed by Safety Advisor:			I	Date/Tim	e 1900 9/2/19)	

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

<u>4 pm Saturday – 6 am Sunday</u>

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.

<u>6 am – 6 pm Sunday</u>

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 I	Name
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Pigeon Valley

Date 9&10/2/2019

Time 1900 - 0700

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			

		F	IRE BE	HAVIO	UR FO	RECA	ST			X
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					X
Assumptions: Dovedale weather station Saturda y's forecast								- ion		
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 behavior	ur – slope 0°	Forecast worst case – 28°C 45% RH slope 20°			
(expected fire front)	-	1400-1800			
Fuel type: Forest/Scrub/go	rse mix	Fuel type: Forest/Scrub/ gorse mix			
Expect HF rate of spread of		Expect HF rate of spread of 600 m/hr			
HF Intensity	2939 kw/m	HF Intensity	>8900 kw/m		
Flame lengths	3.1 m	Flame lengths	5 m		
Fuel type: Grass-80% GC, 10 height	00% cover, 0.1m	Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height			
Expect HF rate of spread of	500 m/hr	Expect HF rate of sp	read 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,	scrub 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 wea	ther station and				
NIWA forecasting.					
22580					