Incident Name	Operational Period	IAP COVER SHEET
Pukaki Downs Fire	Date 30/08/20 – 31/08/20	RF199
	Time 2000 - 0700	
	INCIDENT ACTION P	LAN
The items	s checked below are included in the in	cident Action Plan
	EPORT	×
INCIDENT OB	JECTIVES	
	ONAL LIST	A C
	GNMENT	× O
	SSIGNMENT	al
AIR OPERATIO	ONS PLAN	du.
	TION PLAN	
SAFETY PLAN		
MEDICAL PLA	N	
FIRE MAP	Alle	
WEATHER FO	RECAST AND MAP	
FIRE BEHAVIO	OUR FORECAST	
FACILITIES LA	YOUT PLAN	
	90	
Approved by Incident C	ontroller: Signed	Date/Time
		30/08/20 TIME
Name: Rob Hands		



1. Incident Name	2. Operational Period	SITUATION
Pukaki Downs Fire	Date 30/08/20 – 31/8/20	REPORT
	Time 2000 - 0700	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
SH80, Pukaki	Forest/Scrub/Grass/Slash	Ignition Point:
		1365083
		5111929

6. Assessment

Started 1125 in the vicinity of the Baikie Hut. Driven by strong Norwest winds through tussock and wilding tree plantations. Total area of incident ground approx. 2,500ha within a 23km perimeter. Patchy areas within fire zone remaining unburnt.

A wide range of fuel types within the existing fire perimeter have been consumed.

There are 8 significant residential properties affected on the East side of SH80. Unfortunately, we have lost one of those properties. Currently carrying out property protection on the remaining properties, to be continued by nightshift.

7. Action taken

- Aircraft 2 fixed wing, 10 rotary with buckets, plus air platforms.
- Heavy machinery working at 1900: one 20ton digger creating fire break.
- Multiple ground crews operating # on structure protection and evacuating properties. Crews will be working throughout the night for property protection.
- Command Unit onsite from Timaru. Will be unmanned overnight.
- Set up welfare with the affected residents to reassure them we are doing everything possible to look after their properties.
- Two evacuations out of Aoraki Mt Cook: Approx 140ppl (60 cars) and approx. 20 cars.

8. Factors

- Extreme fire behaviour occurring.
- Power Grid Control Gate 18 threatened. This has the potential to have a significant effect on supply of power to whole of South Island.
- Weather (high NW winds) and topography.
- SH80 link to Aoraki Mt Cook closed, SH8 closed at Tekapo and Omarama.
- Prime assets lavender farm and structures.
- DOC estate (point of ignition to be confirmed).
- Stock in the area.
- Significant areas within fire area remain unburnt.

9. Predicted Incident Development

Overnight patrols will be in place for property protection only.

Hope to establish containment around 60% of the perimeter 31/8/20.

Multi day mop up and containment using helicopters, heavy machinery and ground crews.

10. Prepared by:	Date/Time 30/8/20 2010
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1. Incident Name	2. Operational Period	INCIDENT
Pukaki Downs Fire	Date 30/08/20 – 31/8/20 Time 2000 - 0700	OBJECTIVES RF202
3. Overall Incident Objective	S	
1. Protect life and prope	rty	
2. Contain the fire sprea	d	
3. Protect environmenta	l assets, including power grid Contro	ol Gate 18.
		nation
4. Objectives for specified O	perational Period	
1. Prevent any further da	*he offician	
5. Prepared by:		Date/Time 30/8/20 1940

1. Incident Name	2. Operational Period		ORGANI	
Dulualii Dauma Fina	Date 30/08/20 – 31/8/20		ASSIG	NMENT
Pukaki Downs Fire	Time 2000 - 0700			RF203
3. Incident Control		Phone	Cell Phone	Radio Ch
Incident Controller	Rob Hands			
Deputy IC				
Information Officer				0
Safety Officer				Ś
Liaison Officer			N	<u>م</u>
			Č.	
4. Agency Representative		Phone	Cell Phone	Radio Ch
Lead Agency		• (
Agency				
Agency		0		
Agency	6			
5. Planning/Intell Section		Phone	Cell Phone	Radio Ch
Planning/Intell Manager				
Situations Unit				
Resources Unit	Alle			
Management Support Unit	0			
Information Unit				
Advance Planning Unit				
Technical Specialists Unit				
6. Logistics Section		Phone	Cell Phone	Radio Ch
Logistics Manager				
Supply Unit				
Catering Unit				
Facilities Unit				
Finance Unit				
Communications Unit				
Medical Unit				

7. Operations Section	Phone	Cell Phone Rad	io Ch
Operations Manager			
Deputy Operations Manager			
Division One Commander			
Sector A Supervisor			
Air Division Commander			
Air Attack Supervisor			9,
Air Support Supervisor		6	5
		NC.	
		NY N	
8. Prepared by:	Date/Time	30/8/20 1940	

bat/Times

1. Incident Name		2. Operationa	l Period			SECTOR
Pukaki Downs Fire		Date 30/08/20 Time 2000 - 07			AS	SIGNMENT RF204
3. Sector	4. Description				5. Divis	ion Assigned
One						
6. Sector Supervisor			Affiliation	Р	hone	Radio Ch
7. Resources Assigned	d this period		Transport	Dr	op-off	Pickup
Resource/Crew	Leader	# Persons	Required		nt/time	Point/time
					Å	•
Ashburton ASH621				5		
Temuka AREA2203 Timaru TIMA802			. (*	
		<u> </u>				
8. Sector Assignment	/ Special Instruction	ıs				
Prevent any further d	amage to property.					
Use of thermal camer	as to identify hotspo	ots.				
Patrol road.	, ne					
Other Resources						
Medium appliance Tw	vizel. Smoke chaser T	ſwizel.				
	n.					
8	x					
9. Sector Communica	tions			P	hone	Radio Ch
Division/Division Cr	ndr					
Air Attack Supervi	isor					
Safety Off	icer					
* 						
				_	·	
10. Prepared By:				Date	/Time 3	0/8/20 1940

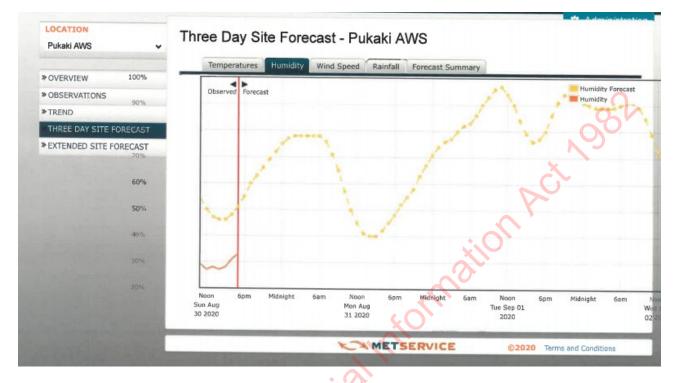
1. Incident Name		2. Operational	Period	COMMUNICATIONS
Pukaki Downs Fire		Date 30/08/20 Time 2000 - 07		PLAN RF205
3. Radio Channels				
Assigned To	Function	Channel	Frequency	System
				NC.
			~	
			50	
4. Telephone		.0	ľ	
Assigned To	Landline	Cell phone	Fax	Comments
	0			
	×N°			
	8			
6				
S				
200				
6. Other (e.g. email, Sa	tphone, etc)	<u> </u>	I	
7. Prepared by:	1		Date	/Time

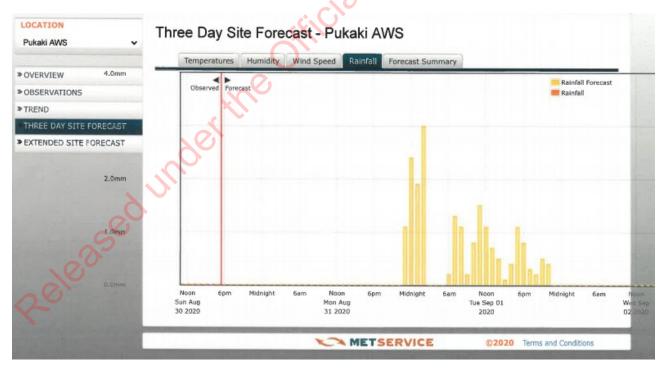
1. Incident Name		Derational Perio 30/08/20 – 31/		SAFETY PLAN
Pukaki Downs Fire	Time	2000 - 0700		RF209
3. General Safety Points				
Everyone is to be signed in safety check and payment Maintain regular situation	records.	-		
LACES	Fire Ord	ers	١	Watchouts
L - Lookout(s) A – Awareness – Anchor Point(s) C – Communication(s) E – Escape Route(s) S – Safety Zone(s)	 conditions and forecas Know what your fire is times. Base all actions on cur- fire behaviour of the fit Identify escape routes and make them known Post lookouts when the danger. Stay alert. Keep calm, decisively. Maintain prompt com- your crew/s, your sup- adjoining crews. Give clear instructions are understood. Maintain control of yo times. Fight fire aggressivel provided for safety fit 	s doing at all rrent and expected re. and safety zones there is possible Think clearly, act munication with ervisor and and ensure they ur crew/s at all y having rst.	 Unfamiliar terr Safety zones at unfamiliar wit influencing fir No communic or supervisor. Instructions at Weather is gett humidity drop Wind increases Getting freque 	nd escape routes not identified. h weather and local factors te behaviour. ations link with crew members ations link with crew members assignments not clear. ting hotter, drier and relative oping s and/or changes direction. ent spot fires across the line l or down wind of a fire steep slope gged terrain fire getation gh hot ashes power lines machinery aircraft
4. Specific Safety Points Smokey conditions.	orth			
Dangerous trees – potent Uneven ground, variable t				
Lavender oil stocks at Lave	ender Farm.			
Confirm escape routes.				
5. Prepared By:		Date/Time 3	0/8/20 1945	

1. Incident Name		2. Operat	ional Pe	riod			рагі	
		Date 30/0	8/20 – 3	31/8/20				DICAL
Pukaki Downs Fire		Time 200	0 - 0700			PLAN RF206		
3. First Aid Station				one/Radi	io	Paran	nedics	KF206
Name	Loc	cation		hannel		vailable	at Stat	ion
FCP	Lavender SH80	Farm,			None			
							6	
							\overline{O}	
						~		
						<u>C</u>		
4. Transportation	Ad	dress	Ph	one/Radi		Paran	nedics	
Ambulance Service		un ess		hannel		lable wi		ulance
				~~~~				
Twizel Ambulance	Mackenz	ie Drive		$\langle \cdot \rangle$	First	Respons	e only	
Aoraki Mt Cook Ambulance			XO		First	Respons	e only	
						•	•	
		$\cdot \cdot \cdot$						
5. Hospitals					Trav	el Time	Burn	Heli
5. Hospitals Hospital Name	Add	ress	Ph	one	<u>Trav</u> Road	<u>el Time</u> Air	Burn Unit	Heli Pad
-	Add	lress	Ph	one				
-	Add Queen Stro Timaru	)`	<i>Ph</i> 03687					
Hospital Name	Queen Stre	)`			Road	Air	Unit	Pad
Hospital Name	Queen Stre	)`			Road	Air	Unit	Pad
Hospital Name	Queen Stre	)`			Road	Air	Unit	Pad
Hospital Name	Queen Stre	)`			Road	Air	Unit	Pad
Hospital Name Timaru Hospital	Queen Stro Timaru	)`			Road	Air	Unit	Pad
Hospital Name	Queen Stro Timaru	)`			Road	Air	Unit	Pad
Hospital Name Timaru Hospital	Queen Stro Timaru	eet,	03687	2100	Road 2hrs	Air 40m	Unit No	Pad
Hospital Name Timaru Hospital 6. Special Emergency Procedu	Queen Stro Timaru	eet,	03687	2100	Road 2hrs	Air 40m	Unit No	Pad
Hospital Name Timaru Hospital 6. Special Emergency Procedu	Queen Stro Timaru	eet,	03687	2100	Road 2hrs	Air 40m	Unit No	Pad
Hospital Name Timaru Hospital 6. Special Emergency Procedu	Queen Stro Timaru	eet,	03687	2100	Road 2hrs	Air 40m	Unit No	Pad
Hospital Name Timaru Hospital 6. Special Emergency Procedu	Queen Stro Timaru	eet,	03687	2100	Road 2hrs	Air 40m	Unit No	Pad
Hospital Name Timaru Hospital 6. Special Emergency Procedu	Queen Stro Timaru	eet,	03687	2100	Road 2hrs	Air 40m	Unit No	Pad
Hospital Name Timaru Hospital 6. Special Emergency Procedu	Queen Stro Timaru	eet,	03687	2100	Road 2hrs	Air 40m	Unit No	Pad
Hospital Name Timaru Hospital 6. Special Emergency Procedu	Queen Stro Timaru	eet,	03687	2100 nager and	Road 2hrs d Deput	Air 40m	Unit No	Pad

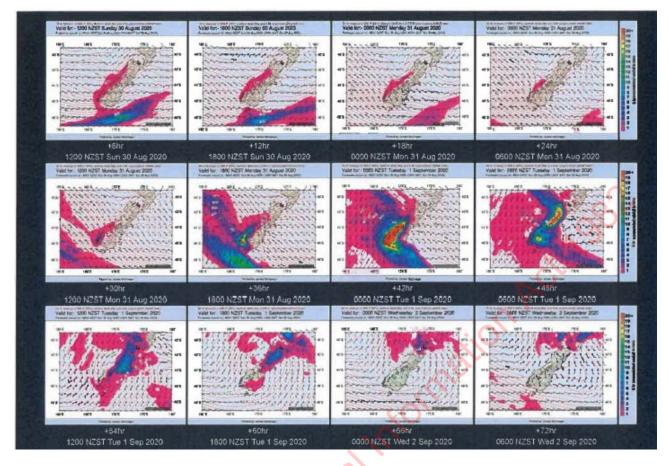
RF201a

1. Incident Name	2. Operational Period	WEATHER
	Date 30/08/20 – 31/8/20	
Pukaki Downs Fire	Time 2000 - 0700	FORECAST

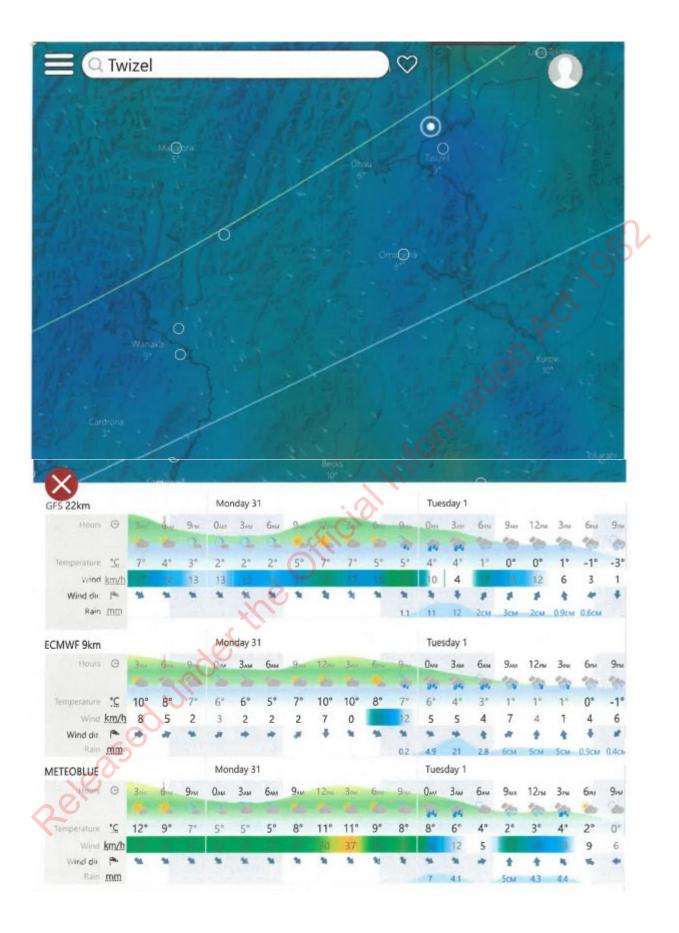








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FIRE WEATHER FORECAST for Mount Cook Fire Service For location: Lake Pukaki near intersection SH80 Issued by MetService at 17:28 30-Aug-2020 NZST Valid from 18:00 30-Aug-2020 NZST to 18:00 02-Sep-2020 NZST Wind: Northwest 20 to 30km/h rising to 50 to 60km/h gusting 110km/h Monday afternoon. Southerly change 5 to 10km/h early Tuesday morning. Winds dying out Wednesday. Precipitation: Rain is expected to develop Monday night , turning to sleet then possible snow Tuesday morning. Clearing Tuesday evening. Fine on Wednesday. Temperature: Temperatures in the high teens on Monday, but cooling to single digits on Tuesday. Cooling below zero early Wednesday morning, but warming to about 6 to 8 degrees Wednesday afternoon. Humidity: Below 50% humidity until Monday night, then rising to above 90% Tuesday morning. Remaining above 50% for the remainder of the period. Remark: A wind warning is likely to be may be issued for Monday: Outlook: Fine Thursday. Northwesterlies returning. (C) Copyright Meteorological Service of New Zealand Ltd 2020 eleased

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# Three Day Site Forecast - Pukaki AWS

Tempera	tures Humidity	Wind Speed	Rainfall Fo	recast Summary	
SVPrint					
how All 🗸	entries	State State State		and the second second second	Sector Participation of the
and the second s	Anna I And Dates		a succession	<b>建设是公司</b> 建位的 计数字分	
Air (°C)1	Dew Point (°C)1	Humidity (%)	Wind Dir	Wind Speed (km/h)	Rainfall Acc (mm) ²
0					
ug 4.0 600	-1.8	66	NNW	11	ā.
700 5.2	-0.4	67	N	11	0.0
8007.3	1.6	67	NNE	15	0.0
900 9.1	2.6	64	calm	13	0.0
000 11.2	3.6	59	NNW	15	0.0
100 13.1	4.1	54	NW	15	0.0
200 14.5	4.2	50	WNW	15	0.0
300 15.3	4.0	47	w	17	0.0
400 15.5	3.9	46	WNW	19	0.0
500 15.4	3.8	46	NW	19	0.0
600 14.9	3.9	48	WNW	ୀ9ି 💦 🛟	0.0
700 13.6	3.6	51	WNW	15	0.0
800 10,7	2.1	55	WNW	15	0.0
900 8.9	1.5	60	NW	13	0.0
0008.1	1.5	63	NW	13	0.0
1007.3	1.4	66	NW	11	0.0
200 6.5	1.2	69	NW	13	0.0

ghur official officia

31         Aug       4.9       0         0000       0       0         0100       4.5       0         0200       4.5       1         0300       4.4       1         0400       4.3       0         0500       4.5       1         0600       4.1       0         0700       5.8       1	).9 ).8 1.1 1.0 ).9	72 75 77 78 78 78 78 78 78	NW NW NW NW NW NW	11 11 11 11 11 11	0.0 0.0 0.0 0.0 0.0 0.0
Aug         4.9         0           0000         0         0           0100 4.5         0         0           0200 4.5         1         0           0300 4.4         1         0           0400 4.3         0         0           0500 4.5         1         0           0600 4.1         0         0           0700 5.8         1         0	).8 1.1 1.0 ).9	77 78 78 78 78	NW NNW NW	11 11 11	0.0 0.0 0.0
0000           0100 4.5         0           0200 4.5         1           0300 4.4         1           0400 4.3         0           0500 4.5         1           0600 4.1         0           0700 5.8         1	).8 1.1 1.0 ).9	77 78 78 78 78	NW NNW NW	11 11 11	0.0 0.0 0.0
0100 4.5         0           0200 4.5         1           0300 4.4         1           0400 4.3         0           0500 4.5         1           0600 4.1         0           0700 5.8         1	l.1 l.0 ).9 l.0	78 78 78 78	NNW NW NW	11 11	0.0 0.0
200 4.5       1         300 4.4       1         400 4.3       0         500 4.5       1         600 4.1       0         700 5.8       1	l.1 l.0 ).9 l.0	78 78 78 78	NNW NW NW	11 11	0.0 0.0
03004.4 1 04004.3 0 05004.5 1 06004.1 0 07005.8 1	1.0 ).9 1.0	78 78 78	NW NW	11	0.0
0400 4.3 0 0500 4.5 1 0600 4.1 0 0700 5.8 1	).9 1.0	78 78	NW		
0500 4.5 1 0600 4.1 0 0700 5.8 1	.0	78		11	0.0
06004.1 0 07005.8 1			NINI\A/		010
0700 5.8 1	1.6		INDERV	9	0.0
		78	NNW	9	0.0
08006.7 1	.8	76	N	11	0.0
	.8	71	NE	11	0.0
9008.3 2	2.0	65	NNE	15	0.0
1000 10.9 2	2.8	57	N	13	0.0
110013.6 3	3.5	50	NNW	15	0.0
		45	NW	19	0.0
		41	NNW	22	0.0
		40	NNW	24	0.0
		40	NNW	26	0.0
		42	NNW	24	0.0
	7	45	NW	22	0.0
	.0	48	NW	28	0.0
	).6	52	NW	20	0.0
	).4	55	NW	19	0.0
	).8	58	NW		0.0
	).7	63	NW C	15 15	0.0
	.4	67	NW.	17	1.1
		07		17	1.1
1	17	71		45	2.4
Sep 6.5	1.7	71	NW	15	2.4
	1.8	74		10	1.0
			NW	13	1.9
02005.4	1.5	76	WNW	11	3.0
03005.9	2.3	77	WNW	11	0.0
the one f	1.5 2.3 minute average va mulated value for	the preceding hou			

Air (°C)1	Dew Point (°C)1	Humidity (%)1	Wind Dir ²	Wind Speed (km/h)1	Rainfall Acc (mm) ²
04006.0	2.8	80	WNW	11	0.0
0500 5.1	2.2	82	WNW	11	0.0
0600 3.1	0.5	83	W	11	0.2
0700 3.2	1.1	86	WNW	11	1.3
0800 2.5	1.1	90	w	11	1.1
0900 2.7	1.8	93	SSW	11	0.2
1000 3.5	3.0	96	SSW	11	0.8
1100 3.6	3.1	97	S	11	1.5
1200 5.1	4.2	94	S	13	1.1
1300 4.1	2.6	90	SSE	13	0.7
1400 4.6	2.2	84	SSE	13	0.5
1500 4.8	1.5	79	s	11	0.1
1600 4.6	0.8	76	SE	11	0.4
1700 3.7	0.0	77	ENE	9	1.1
1800 1.9	-1.1	80	NE	9	0.8
1900 0.3	-1.7	86	NNE	9	0.3
2000 0.0	-1.3	91	N	9	0.2
2100-0.1	-1.0	94	N	7	0.5
2200-0.3	-1.2	94	NNW	7	0,4
2300-0.3	-1.3	93	NNW	7	0.0
				~0	
Sep -0.3	-1.6	91	NW	7	0.0
0000					
100-0.5	-1.9	90	NW	7	0.0
200-0.7	-2.2	89	NW	7	0.0
300-0.9	-2.5	89	WNW	7	0.0
400-1.3	-3.0	89	WNW	7	0.0
500-1.8	-3.4	89	WNW	7	0.0
600-2.3	-3.7	90	WNW	7	0.0
700-1.8	-3.1	91	WNW	7	0.0
800-1.3	-2.6	91	w	6	0.0
900-0.8	-2.4	89	WSW	6	0.0

1 - the one minute average value

² - the accumulated value for the preceding hour

Air (°C)	Dew Point (°C)	Humidity (%)1	Wind Dir ²	Wind Speed (km/h)1	Rainfall Acc (mm) ²
1000 0.9	-1.4	85	WSW	7	0.0
1100 2.6	-0.7	79	WSW	7	0.0
1200 4.3	-0.1	73	WSW	7	0.0
1300 5.0	-0.8	66	WNW	9	0.0
1400 5.6	-1.2	61	NW	9	0.0
1500 6.3	-1.3	58	NW	11	0.0
1600 5.2	-2.4	58	NNW	11	0.0
17004.2	-3.0	60	N	11	0.0
1 - the o	ne minute average v	alue			

2 - the accumulated value for the preceding hour