



CIMS Incident Management Organiser: (RF200)

Situation Report	
Incident Name: Makara Fire – Chatham's Location: Southern Side of Chatham Island Incident Number: Incident Type: Vegetation Fire Grid Reference:	Shift: 0800 – 1800 4 th Feb
Assessment: Current Situation Vegetation in scrub fuels with areas of Peat, started on the 1 st Feb and ran until rain stopped the spread of fire on the night of the 2 nd burning a total of around 3000ha. No further rain or fire spread was experienced during the day on Saturday	
Action Taken: (Consider Progress) Doc Crews have been marking and mapping access Local Machinery has mulched fuel breaks in Sector Sierra, for protection of structures Incident Management Team arrived and received briefing 3 rd Feb. And completed familiarisation flight.	
Factors: (Weather and other factors or limitation should be noted including resource status) Moisture from the rain of Friday night will dry out and FFMC will rise to about 86 by Wednesday and Access to some parts of the fireground will be time consuming. Obtaining resources that are not available on the island will take 1-2 days to arrive.	
Predicted Incident Development: (Note how this situation is expected to evolve) Perimeter growth on Sunday is unlikely with mild fire weather and aircraft available. In dryer windier conditions Monday-Thursday crews and aircraft may have difficulty containing flare-ups if several occur at the same time.	

Incident Action Plan

Incident Objective / Aim: (Analyse and consider all options before setting plan to achieve desired outcome)

Ensure safety of all responders

Protect live

Minimise loss of property (especially properties along Waitangi Wharf Owenga Road)

Minimise loss of other values. (especially Taiko Trust Ecological area, and Tuuta/Rangaika Reserve)

Incident specific objectives: Contain the fire within current extent. Identify contingency plan should the fire not be able to be contained within the current extent.

Shift Specific objectives: Priority to be given to securing the perimeter in:

- Sierra Sector
- Alpha sector (starting at the intersection with Sierra).

Strategy / Strategies: (Plan of Action to meet Incident Objective/ Aim)

Direct attack (contingencies which have yet to be developed may involve indirect attack.

Tactics: (Specific actions to achieve incident strategy/s)

Secure the edges with a perimeter blacked out (cold) to a width of 10m, using ground crews with either hand tools or water. and backed up with aircraft.

Date: 3rd February

Prepared by: Rory Renwick

Period: 4th February

Position: Planning

Approved by: Ian Reade IC

Signature:

Hints for Successful Incident Management:

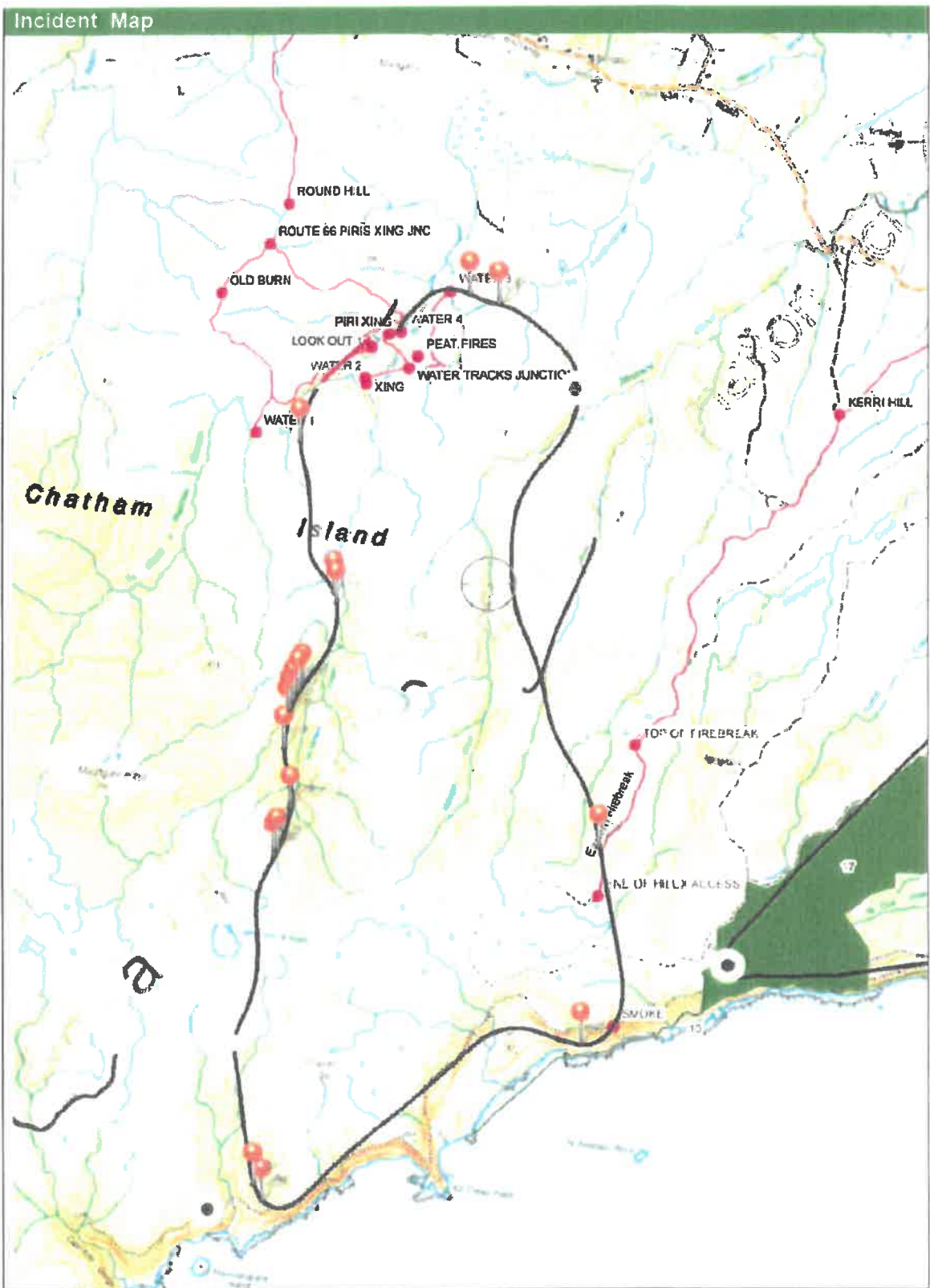
- Keep records
- Plan ahead
- Set up a Command and Control structure
- Delegate functions
- Develop and update Incident Action Plans
- Brief Personnel
- Sectorise the Incident
- Give regular Situation Reports
- Plan Changeovers
- Have effective Communications

Safety First, Every Job, Every time (L.A.C.E.S.)

Situation Report:

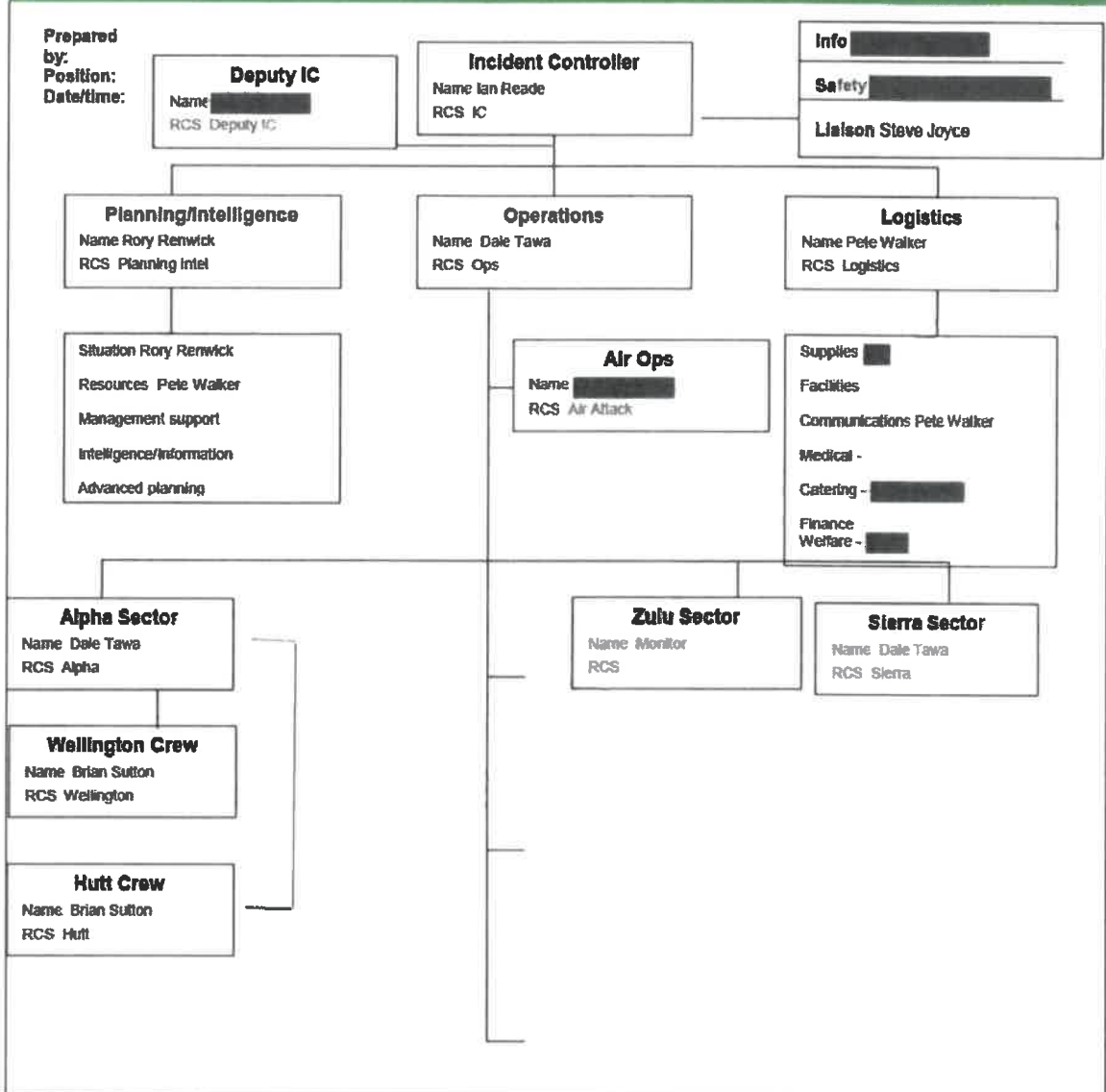
Prepared & Communicated: Time:

On Arrival		
+ 1 hr		
+ 2 hrs		
+ 3 hrs		
+ 4 hrs		
+ 5 hrs		



This Incident Management Organiser is prepared by the National Rural Fire Authority (Version 2008/1)

Incident Management Structure



Operational Tasking

Sector	Resource	Task	Grid	Tasked at hrs
Air Ops	Squirrel BK117	0630 Recce with Squirrel 0700 BK and Squirrel Air direct attack. Fly to ground crews to critical hot spots where possible. Air Operations to provide hourly weather reading announcements		
A		0800 Briefing Deploy by Helo to critical hot spots within 10m of perimeter and extinguish. Starting at intersection with sector S. Provide hourly Sit Reps.		

Communication Plan: <small>Radio channels and frequencies</small>	
Command:	DOC CH 5
Tactical:	Simplex DOC 15
Support:	
Ground to Air:	VHF Fire 4
Air to Air:	Pilots to confirm

1. Incident Name Makara		2. Operational Period Date 4/2/18 Time 0800 to 2000		MEDICAL PLAN RF206			
3. First Aid Station Name		Location	Phone/Radio Channel	Paramedics available at Station			
Point 106		Staging	Doc 5	First aiders			
Crew leaders		fireline	Doc 5	First aiders			
4. Transportation Ambulance Service		Address	Phone/Radio Channel	Paramedics available with Ambulance			
St John Ambulance		1 Hospital road		Yes			
Westpac rescue heli			Fire 4				
5. Hospitals Hospital Name		Address	Phone	Travel Time		Burn Unit	Heli Pad
				Road	Air		
Chathams medical centre		1 hospital road		20 mins	10 mins	No	No
6. Special Emergency Procedures Medical centre will stabilise patient while life flight is dispatched from Wellington							
7. Prepared By: Mike Sullivan			Date/Time 3 rd Feb 2230hrs				
8. Reviewed by Safety Advisor:			Date/Time				



IAP

INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES & STRATEGIES
- ORGANISATION LIST
- ORGANISATION DIAGRAM
- COMMUNICATIONS PLAN
- AIR OPERATIONS PLAN
- SAFETY PLAN
- DIVISION ASSIGNMENT
- SECTOR ASSIGNMENT
- MEDICAL PLAN
- LOG
- FIRE MAP
- WEATHER FORECAST & MAPS
- FIRE BEHAVIOUR FORECAST
- FACILITIES LAYOUT
-
-

1. Approved by Incident Controller:

Name

Signed

Date/Time

Ian REade



SITUATION REPORT

3. Location

South Western end Chatham Island

4. Vegetation

Taneora Scrub / peat /

5. NZTM Grid Ref.**6. Assessment**

Vegetation in Taneora scrub fuels with areas of Peat, started on the 1st Feb and ran until rain stopped the spread of fire late on the night of the 2nd burning a total of around 2440ha destroying one structure and burning up to another, both near the southern coastal end of the fireground. No further rain or fire spread was experienced during the day on Saturday.

7. Action taken

Public was evacuated from Waitangi Wharf Owenga Road as a precaution on the evening of 2nd Feb. But were allowed back into the area the following day once rain moderated fire behaviour

Local Machinery has mulched fuel breaks in Sector Zulu/Sierra, for protection of structures

1st shift of NZ resources briefed and on fire ground

2 medium helicopters carrying out bucket work and crew transport on the 4th Feb – reducing the number of visible smokers around the perimeter.

Locals found to be mopping up around structures at the southern end of Zulu.

8. Factors

Approx 10mm rain fell Friday night followed by 1-2mm of rain Sunday morning

Access around fireground difficult due to risk of peat tomo's meaning access restricted to tracks with assistance of local guides.

Obtaining resources that are not available on the island will take 2-3 days to arrive.

9. Predicted Incident Development

It is likely that current tactics will prevent further fire spread however forecast strong winds early week will dry out and increasing FFMC means there is a possibility of significant fire growth if multiple flare ups that may be more than current resources can contain.

10. Prepared by: RORY RENWICK



INCIDENT OBJECTIVES AND STRATEGIES

3. INCIDENT OBJECTIVE(S)/AIM MISSION: (SMART, Specific, Measureable, Achievable Relevant, Time bound)

Ensure safety of all responders

Protect life of residents

Minimise loss of property (especially properties along Waitangi Wharf Owenga Road)

Minimise loss of other values. (especially Taiko Trust Ecological area, and Tuuta/Rangaika Reserve)

Incident specific objectives: Contain the fire within current extent. Identify contingency plan should the fire not be able to be contained within the current extent.

Engage local stakeholder and landowners in planning and operational process

Incorporate local trained resource

Build local relationships and skill with the view to longer term future.

Shift Specific objectives: Priority to be given to securing the perimeter in Sierra and Alpha

Start on shift contingency plans in the event the fire becomes active.

4. STRATEGY/ STRATEGIES: (Plan of Action to meet Incident Objectives)

- Direct attack with aircraft on smoking veg fires in all 3 sectors, with priorities being:
 - Ensure perimeter is contained in Sierra, with action, evac lines established
 - Ensure perimeter is contained on the cliff face on the south of Zulu
- Ground crew mop up along Sierra and Alpha ensuring peat burning is extinguished.
- Ground crews to be backed up with bucket work and transportation from helicopters.
- Establish sustainable Jet A1 fuel deliveries to meet aircraft demands

5. Prepared by: Rory Renwick

ORGANISATION LIST

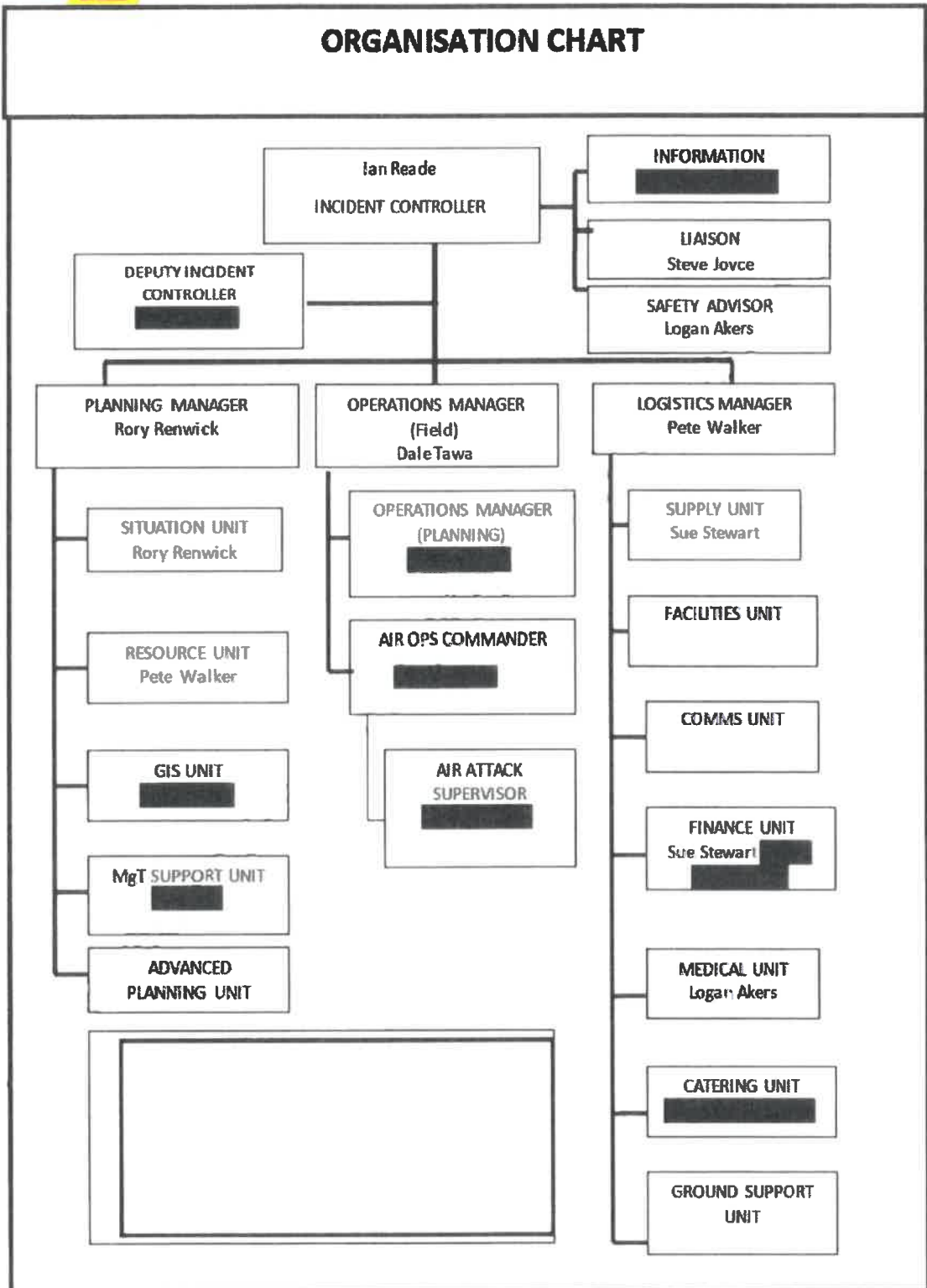
3. Incident Control		Phone	Cell Phone	Radio Ch
Incident Controller	<i>Ian Reade</i>	██████		<i>Doc 5</i>
Deputy IC	██████████	██████		<i>Doc 5</i>
Information Officer	██████████	██████		<i>Doc 5</i>
Safety Officer	<i>Logan Akers</i>	██████		<i>Doc 5</i>
Liaison Officer	<i>Steve Joyce</i>	██████		<i>Doc 5</i>
4. Agency Representative		Phone	Cell Phone	Radio Ch
Lead Agency	FENZ	██████		<i>Doc 5</i>
Agency	MCDEM	██████		
Agency	Enterprise Trust	██████		
Agency				
5. Planning/Intel Section		Phone	Cell Phone	Radio Ch
Planning/Intel Manager	Rory Renwick	██████		<i>Doc 5</i>
Situations Unit	Rory Renwick			
Resources Unit	Pete Walker	██████		<i>Doc 5</i>
Management Support Unit	██████	██████		<i>Doc 5</i>
Information Unit				
Advance Planning Unit				
Technical Specialists Unit				
6. Logistics Section		Phone	Cell Phone	Radio Ch
Logistics Manager	Pete Walker	██████		<i>Doc 5</i>
Supply Unit	Sue Stewart		██████	
Catering Unit	██████████	██████		<i>Doc 5</i>
Facilities Unit				
Finance Unit	██████████ / Sue Stewart	██████	██████	
Communications Unit				
Medical Unit	<i>Logan Akers</i>	██████		<i>Doc 5</i>



Makara Fire, Chatham Island.
Shift period: 5th Feb 2018 0800-2000

7. Operations Section		Phone	Cell Phone	Radio Ch
Operations Manager	Dale Tawa	[REDACTED]		Doc 5
Dep Ops / Dep Plan Manager	[REDACTED]	[REDACTED]		Doc 5
Sector Alpha Supervisor	Dale Tawa			
Sector Zulu Supervisor	Dale Tawa			
Sector Sierra Supervisor	Dale Tawa			
Air Attack Supervisor	[REDACTED]	[REDACTED]		Doc 5
Air Support Supervisor				
8. Prepared by:		Ian Reade		

ORGANISATION CHART





Makara Fire, Chatham Island.
Shift period: 5th Feb 2018 0800-2000

COMMUNICATIONS PLAN

3. Radio Channels Assigned To

Assigned To	Function	Channel	Frequency	System
Command	Management	Doc 5		
Tactical	Tactics	Doc 15		
Ground to Air	Air Ops	Fire 4		
Air to Air	Pilots	119.17		

4. Telephone

Assigned To	Landline	Cellphone	Fax	Comments

6. Other (e.g. email, Satphone, etc)

Began unit available for internet and phone redundancy

7. Prepared by:

Peter Walker



AIR OPERATIONS PLAN

3. Personnel and Communications

Position	Name	Affiliation	Phone	Radio Chan
Air Div. Commander	[REDACTED]	Contractor		Fire 4 DOC 5
Air Attack Supervisor				
Air Support Supervisor				
Lead Helicopter Pilot	[REDACTED]	Southern Helicopters		Fire 4 DOC 5
Lead Fixed-Wing Pilot				

4. Air Resource Assignments

Pilot Name/ Company	Aircraft Type	Reg or Callsign	Assignment	Tactical Freq/Chan	Telephone Numbers
[REDACTED] - Southern Helicopters	Squirrel B3	IMR	Sectors A,Z	Fire 4	
[REDACTED] - Garden City		HGU		Fire 4	

5. Location of Filling Points/Service Areas

Name	Grid Reference
Chatham Airport	Various dipping points within fire ground

6. Safety Notes / Hazards / Radio Coverage Limitations

Power lines running East West on Owenga Road. Small Cessna fixed wing operating from airport from Pitt Island. Normal airport operations domestic from Tuuta airfield.

7. Air Operations Special Equip or Service

All Chathams staff to transfer fuel from their tanker to Helo's following CAA standards.

8. Prepared By: [REDACTED]



SAFETY PLAN

3. General Safety Points

LACES	Fire Orders	Watchouts
<p>L - Lookout(s)</p> <p>A – Anchor Point(s)</p> <p>C – Communication(s)</p> <p>E – Escape Route(s)</p> <p>S – Safety Zone(s)</p>	<ol style="list-style-type: none"> 1. Fight fire aggressively but provide for safety first. 2. Initiate all action based upon current and expected fire behaviour. 3. Recognise current weather conditions and obtain forecasts. 4. Ensure instructions are given and understood. 5. Obtain current information on fire status. 6. Remain in Communication with crew members, your supervisor and adjoining forces. 7. Determine safety zones and escape routes. 8. Establish lookouts in potentially hazardous situations. 9. Remain in control at all times. 10. Stay alert, keep calm, think clearly, act decisively. 	<ol style="list-style-type: none"> 1. Fire not scouted and sized up. 2. In country not seen in daylight. 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. Uninformed on strategy, tactics and hazards. 6. Instructions and assignments not clear. 7. No communications link with crew members or supervisor. 8. Constructing fireline without safe anchor point. 9. Constructing fireline downhill with fire below. 10. Attempting frontal assault on fire. 11. Unburned fuel between you and the fire. 12. Cannot see main fire, not in contact with anyone who can. 13. On hillside where rolling material can ignite fuel below. 14. Weather is getting hotter and drier. 15. Wind increases and/or changes direction. 16. Getting frequent spot fires across the line. 17. Terrain and fuels make escape to safety zones difficult. 18. Taking a nap near the fire line.

4. Specific Safety Points

1. Peat bogs – holes left by earlier peat fires
2. Livestock – wild livestock in unfenced areas
3. Bees – general and disturbing nests
4. Driving on the island – Day hazards – conditions of vehicles Night Hazards – Livestock on roadways
5. Non-FENZ resources operating on the fire ground
6. Flight operations
7. Foam handling
8. Small crews operating long hours – no relief.
9. Food and Hydration

5. Prepared By:





SECTOR ASSIGNMENT

3. Sector A	4. Description Direct attack on the Western Flank	5. Division Assigned			
6. Sector Supervisor Dale Tawa	Affiliation FENZ	Phone [REDACTED]	Radio Ch DOC 5		
7. Resources Assigned this period					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
Wellington	[REDACTED]	+4	Van	0800	1800
Hutt	[REDACTED]	+4		0800	1800
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> • Continuation of perimeter containment to a width of 10m • Establish drop points and provide details to GIS Dave Carlton • Develop ground access and provide details to GIS Dave Carlton • Maintain reporting schedules • Re-deployment to other sectors determined by fire behaviour • Provide recommendations to operations for future tasking and resourcing. • Home safe 					
9. Sector Communications				Phone	Radio Ch
Operations Manager.	[REDACTED]				DOC5
Air Attack Supervisor	[REDACTED]				Fire 4
Safety Officer	Logan Akers				DOC5
10. Prepared By: Dale Tawa					



Makara Fire, Chatham Island.
Shift period: 5th Feb 2018 0800-2000

SECTOR ASSIGNMENT					
3. Sector Z		4. Description Eastern Flank			5. Division Assigned
6. Sector Supervisor Dale Tawa		Affiliation FENZ	Phone [REDACTED]	Radio Ch DOC 5	
7. Resources Assigned this period					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> • Air attack on small perimeter smokers • Reactive deployment to this sector (taskings same as above) in event of increased fire activity. In this area. • Locals may also be fire-fighting in this area. 					
9. Sector Communications				<i>Phone</i>	<i>Radio Ch</i>
Division/Division Cmdr.		[REDACTED]			DOC5
Air Attack Supervisor		[REDACTED]			Fire 4
Safety Officer		Logan Akers			DOC5
10. Prepared By: Dale Tawa					



SECTOR ASSIGNMENT						
3. Sector S		4. Description Northern Perimeter of Fire			5. Division Assigned	
6. Sector Supervisor Dale Tawa		Affiliation FENZ		Phone [REDACTED]	Radio Ch DOC 5	
7. Resources Assigned this period						
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/time	Pickup Point/time	
Contractors	Fulton Hogan					
Hutt	[REDACTED]	+4		0800	1800	
8. Sector Assignment / Special Instructions						
<ul style="list-style-type: none"> Continuation of perimeter containment to a width of 10m Establish drop points and provide details to GIS Dave Carlton Develop ground access and provide details to GIS Dave Carlton Maintain reporting schedules Re-deployment to other sectors determined by fire behaviour Provide recommendations to operations for future tasking and resourcing. <p>Home safe</p> <p>If fire becomes active contractors with mulchers and graders will be engaged to establish structure protection fuel brakes.</p>						
9. Sector Communications				Phone	Radio Ch	
Division/Division Cmdr.		[REDACTED]			DOC5	
Air Attack Supervisor		[REDACTED]			Fire 4	
Safety Officer		Logan Akers			DOC5	
10. Prepared By: Dale Tawa						



Makara Fire, Chatham Island.
Shift period: 5th Feb 2018 0800-2000

MEDICAL PLAN						
3. First Aid Station						
<i>Name</i>	<i>Location</i>	<i>Phone/Radio Channel</i>		<i>Paramedics available at Station</i>		
<i>Point 106</i>	<i>Staging</i>	<i>DOC 5</i>		<i>First Aiders</i>		
Crew Leaders	Alpha Sector	DOC 5		First Aiders		
4. Transportation						
<i>Ambulance Service</i>		<i>Address</i>	<i>Phone/Radio Channel</i>		<i>Paramedics available with Ambulance</i>	
Air Operations (Evac only)						
<i>St John Ambulance</i>	<i>1 Hospital Road</i>				Yes	
<i>WestPac Rescue</i>					Yes	
5. Hospitals						
<i>Heli</i>				<i>Travel Time</i>		<i>Burn</i>
<i>Hospital Name</i>	<i>Address</i>	<i>Phone</i>	<i>Road</i>	<i>Air</i>	<i>Unit</i>	<i>Pad</i>
<i>Chathams Medical Centre</i>	<i>1 Hospital Road</i>		<i>20 min</i>	<i>10 min</i>	<i>No</i>	<i>No</i>
6. Special Emergency Procedures						
<p><i>Medical Centre utilised to stabilise patients</i> <i>Life Flight dispatched from Wellington</i> <i>Check with Chathams Air for Aircraft Movements</i></p> <p>STAFF WITH KNOWN MEDICAL CONDITIONS: <i>Advise Logistics Manager</i></p>						
7. Prepared by Logistics Manager / Safety Officer: LJA [REDACTED]						
8. Reviewed by Incident Controller:						



Makara Fire, Chatham Island.
Shift period: 5th Feb 2018 0800-2000

FIRE BEHAVIOUR PREDICTION

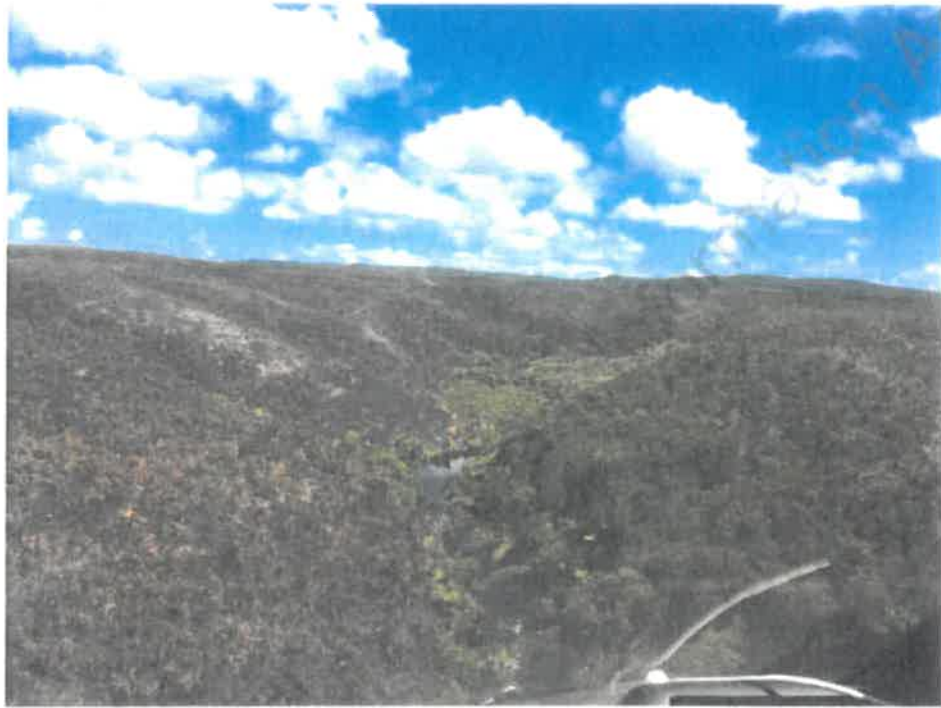
		Grass EROS					
		FFMC	Wind	Wind Dir	ISI	75% cured	Scrub EROS
Monday Morning	4/02/2018 4:00	70	35	NNW	3.6	326	830
Monday Afternoon	4/02/2018 16:00	85	41	NNW	16	1851	3500
Tuesday Morning	5/02/2018 4:00	70	35	NW	3.6	326	830
Tuesday afternoon	5/02/2018 16:00	83	35	WSW	9.4	858	2332
Wednesday Morning	6/02/2018 4:00	75	30	WSW	2.7	200	564
Wednesday afternoon	6/02/2018 16:00	83	25	WSW	4.4	405	1397
Thursday Morning	7/02/2018 4:00	75	15	WSW	1.6	Nil	Nil
Thursday afternoon	7/02/2018 16:00	85	15	WSW	4.5	168	1060

Prepared By: *Rory Renwick*



Makara Fire, Chatham Island.
Shift period: 6th Feb 2018 0800-2000

Incident Action Plan



1. Approved by Incident Controller:

Name

Signed

Date/Time

Jan REade



SITUATION REPORT

3. Location

South Western end Chatham Island

4. Vegetation

Taneora Scrub / peat /

5. NZTM Grid Ref.

6. Assessment

Vegetation in Taneora scrub fuels with areas of Peat, started on the 1st Feb and ran until rain stopped the spread of fire late on the night of the 2nd burning a total of around 2440ha destroying one structure and burning up to another, both near the southern coastal end of the fireground. No further fire spread was experienced during Saturday Sunday or Monday.

7. Action taken

Public was evacuated from Waitangi Wharf Owenga Road as a precaution on the evening of 2nd Feb, and were allowed back into the area the following day once rain moderated fire behaviour

Local machinery has mulched fuel breaks in Sector Zulu/Sierra, for protection of structures.

Main focus of ground crews has been Sierra sector and northern Edge of Alpha.

Two medium helicopters carrying out bucket work and crew transport on the 4th Feb – reducing the number of visible smokers around the perimeter, focussing on the currently inaccessible areas along the cliff face in Zulu.

A local crew has been found to be mopping up around structures at the southern end of Zulu, and have been provided with some PPE, and communications so they can call for assistance in the event of an incident.

Partial National Incident Management Team from NZ arrived midday on the 3rd Feb to assist with incident management.

8. Factors

Access around fireground difficult due to risk of peat tomo's meaning access restricted to tracks with assistance of local guides.

Obtaining resources that are not available on the island will take 2-4 days to arrive.

Weather – See separate weather / fire behaviour predictions at back of IAP.

9. Predicted Incident Development

It is likely that current tactics will prevent further fire spread however forecast strong shifty winds (from NW to SW) early week will dry out and increasing FFMC means there is a possibility of significant fire growth if multiple flare ups occur at the same time are more than current resources can contain.

10. Prepared by: *RORY RENWICK*



INCIDENT OBJECTIVES AND STRATEGIES

3. INCIDENT OBJECTIVE(S)/AIM MISSION: (SMART, Specific, Measureable, Achievable Relevant, Time bound)

Ensure safety of all responders

Protect life of residents

Minimise loss of property (especially properties along Waitangi Wharf Owenga Road)

Minimise loss of other values. (especially Taiko Trust Ecological area, and Tuuta/Rangaika Reserve)

Incident specific objectives: Contain the fire within current extent.

Should a significant escape from current extents occur:

- Evacuate ahead of fire breakout to the north
- Minimise fire spread
- Defend Marae and power station as priority private property

Engage local stakeholder and landowners in planning and operational process

Incorporate local trained resource

Build local relationships and skill with the view to longer term future.

Shift Specific objectives: Priority to be given to securing the perimeter in Sierra ahead of SW wind change in the late afternoon.

4. STRATEGY/ STRATEGIES: (Plan of Action to meet Incident Objectives)

To contain to current extents.

- Direct attack with aircraft on smoking veg fires in all 3 sectors, with priorities being:
- Ensure perimeter is contained in Sierra, with action, evac lines established
- Ensure perimeter is contained on the cliff face on the south of Zulu
- Ground crew mop up along perimeter of Sierra ensuring peat burning is extinguished.
- Ground crews to be backed up with bucket work and transportation from helicopters.

Contingency should a significant escape occur incorporated into a predetermined response plan.

- Direct attack on flanks and indirect on head
- Defensive structure protection
- Evacuate ahead of the fire

5. Prepared by: Rory Renwick



ORGANISATION LIST

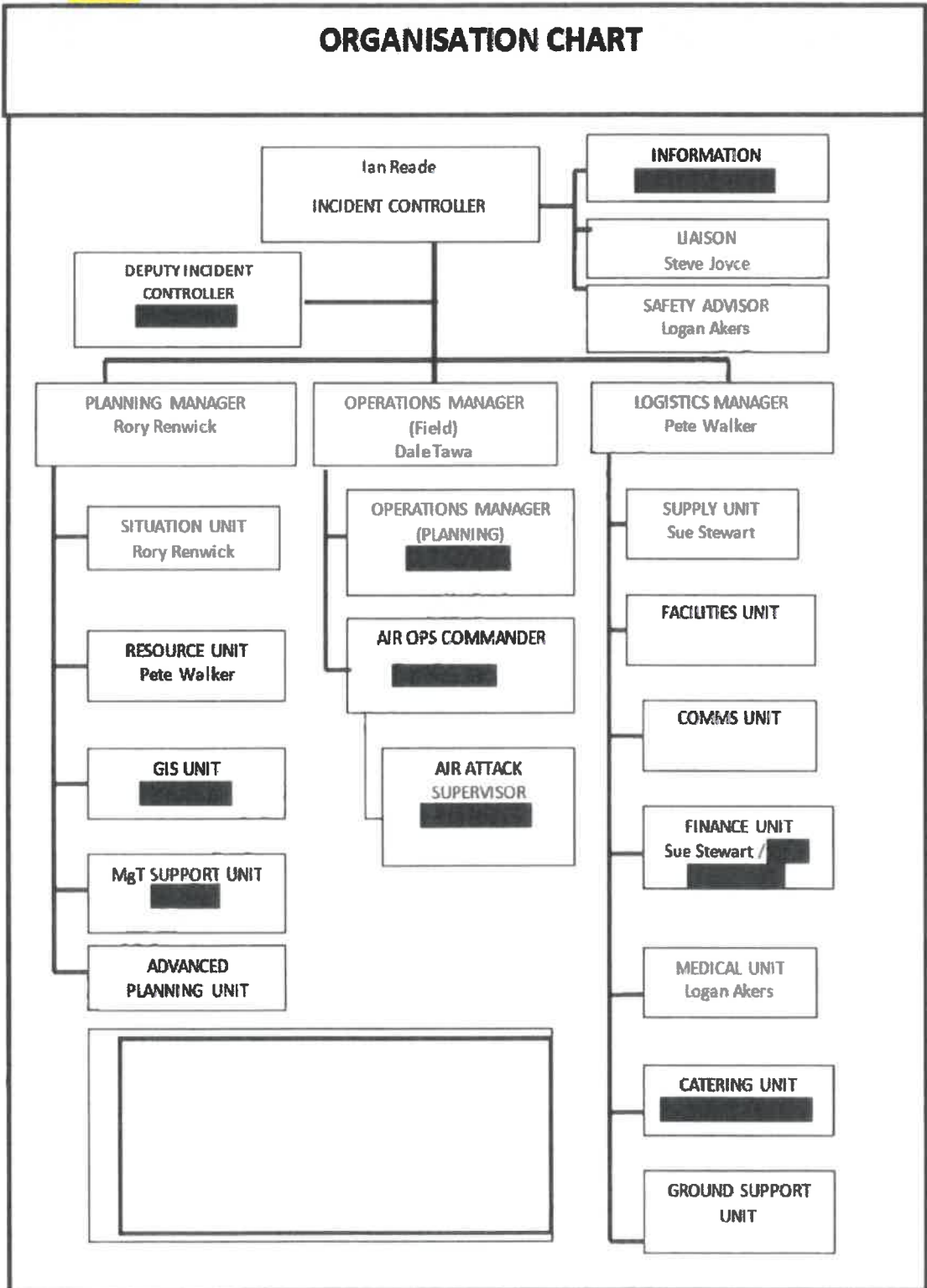
3. Incident Control		Phone	Cell Phone	Radio Ch
Incident Controller	Ian Reade	[REDACTED]		Doc 5
Deputy IC	[REDACTED]	[REDACTED]		Doc 5
Information Officer	[REDACTED]	[REDACTED]		Doc 5
Safety Officer	Logan Akers	[REDACTED]		Doc 5
Liaison Officer	Steve Joyce	[REDACTED]		Doc 5
4. Agency Representative		Phone	Cell Phone	Radio Ch
Lead Agency	FENZ	[REDACTED]		Doc 5
Agency	MCDEM	[REDACTED]		
Agency	Enterprise Trust	[REDACTED]		
Agency				
5. Planning/Intel Section		Phone	Cell Phone	Radio Ch
Planning/Intel Manager	Rory Renwick	[REDACTED]		Doc 5
Situations Unit	Rory Renwick			
Resources Unit	Pete Walker	[REDACTED]		Doc 5
Management Support Unit	[REDACTED]	[REDACTED]		Doc 5
Information Unit				
Advance Planning Unit				
Technical Specialists Unit				
6. Logistics Section		Phone	Cell Phone	Radio Ch
Logistics Manager	Pete Walker	[REDACTED]		Doc 5
Supply Unit	Sue Stewart		[REDACTED]	
Catering Unit	[REDACTED]	[REDACTED]		Doc 5
Facilities Unit				
Finance Unit	[REDACTED] / Sue Stewart	[REDACTED]	[REDACTED]	
Communications Unit				
Medical Unit	Logan Akers	[REDACTED]		Doc 5



Makara Fire, Chatham Island.
Shift period: 6th Feb 2018 0800-2000

7. Operations Section		Phone	Cell Phone	Radio Ch
Operations Manager	Dale Tawa	[REDACTED]		Doc 5
Dep Ops / Dep Plan Manager	[REDACTED]	[REDACTED]		Doc 5
Sector Alpha Supervisor	Dale Tawa			
Sector Zulu Supervisor	Dale Tawa			
Sector Sierra Supervisor	Dale Tawa			
Air Attack Supervisor	[REDACTED]	[REDACTED]		Doc 5
Air Support Supervisor				
8. Prepared by:		Ian Reade		

ORGANISATION CHART





Makara Fire, Chatham Island.
Shift period: 6th Feb 2018 0800-2000

COMMUNICATIONS PLAN

3. Radio Channels Assigned To

Assigned To	Function	Channel	Frequency	System
Command	Management	Doc 5		
Tactical	Tactics	Doc 15		
Ground to Air	Air Ops	Fire 4		
Air to Air	Pilots	119.1		

4. Telephone

Assigned To	Landline	Cellphone	Fax	Comments

6. Other (e.g. email, Satphone, etc)

<i>Began unit available for internet and phone redundancy</i>		

7. Prepared by:

Peter Walker



AIR OPERATIONS PLAN

3. Personnel and Communications

Position	Name	Affiliation	Phone	Radio Chan
Air Div. Commander	[REDACTED]	Contractor		Fire 4 DOC 5
Air Attack Supervisor				
Air Support Supervisor				
Lead Helicopter Pilot	[REDACTED]	Southern Helicopters		Fire 4 DOC 5
Lead Fixed-Wing Pilot				

4. Air Resource Assignments

Pilot Name/ Company	Aircraft Type	Reg or Callsign	Assignment	Tactical Freq/Chan	Telephone Numbers
[REDACTED] - Southern Helicopters	Squirrel B3	IMR	Sectors A,Z	Fire 4	
[REDACTED] - Garden City		HGU		Fire 4	

5. Location of Filling Points/Service Areas

Name	Grid Reference
Chatham Airport	Various dipping points within fire ground

6. Safety Notes / Hazards / Radio Coverage Limitations

Power lines running East West on Owenga Road. Small Cessna fixed wing operating from airport from Pitt Island. Normal airport operations domestic from Tuuta airfield.

7. Air Operations Special Equip or Service

All Chathams staff to transfer fuel from their tanker to Helo's following CAA standards.

8. Prepared By: [REDACTED]



SAFETY PLAN

3. General Safety Points

LACES	Fire Orders	Watchouts
<p>L - Lookout(s)</p> <p>A – Anchor Point(s)</p> <p>C – Communication(s)</p> <p>E – Escape Route(s)</p> <p>S – Safety Zone(s)</p>	<ol style="list-style-type: none"> 1. Fight fire aggressively but provide for safety first. 2. Initiate all action based upon current and expected fire behaviour. 3. Recognise current weather conditions and obtain forecasts. 4. Ensure instructions are given and understood. 5. Obtain current information on fire status. 6. Remain in Communication with crew members, your supervisor and adjoining forces. 7. Determine safety zones and escape routes. 8. Establish lookouts in potentially hazardous situations. 9. Retain control at all times. 10. Stay alert, keep calm, think clearly, act decisively. 	<ol style="list-style-type: none"> 1. Fire not scouted and sized up. 2. In country not seen in daylight. 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. Uninformed on strategy, tactics and hazards. 6. Instructions and assignments not clear. 7. No communications link with crew members or supervisor. 8. Constructing fireline without safe anchor point. 9. Constructing fireline downhill with fire below. 10. Attempting frontal assault on fire. 11. Unburned fuel between you and the fire. 12. Cannot see main fire, not in contact with anyone who can. 13. On hillside where rolling material can ignite fuel below. 14. Weather is getting hotter and drier. 15. Wind increases and/or changes direction. 16. Getting frequent spot fires across the line. 17. Terrain and fuels make escape to safety zones difficult. 18. Taking a nap near the fire line.

4. Specific Safety Points

1. Peat bogs – holes left by earlier peat fires
2. Livestock – wild livestock in unfenced areas
3. Bees – general and disturbing nests
4. Driving on the island – Day hazards – conditions of vehicles Night Hazards – Livestock on roadways
5. Non-FENZ resources operating on the fire ground
6. Flight operations
7. Foam handling
8. Small crews operating long hours – no relief.
9. Food and Hydration

5. Prepared By:





SECTOR ASSIGNMENT

3. Sector <i>Alpha</i>	4. Description Direct attack on the Western Flank	5. Division Assigned	
6. Sector Supervisor Dale Tawa	Affiliation FENZ	Phone [REDACTED]	Radio Ch DOC 5
7. Resources Assigned this period			
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>
			<i>Drop-off Point/time</i>
			<i>Pickup Point/time</i>
8. Sector Assignment / Special Instructions			
<ul style="list-style-type: none"> • Continuation of perimeter containment • Establish drop points and GPS • Develop and flag ground access • Maintain reporting schedules • Re-deployment to other sectors determined by fire behaviour • Home safe 			
9. Sector Communications		Phone	Radio Ch
Operations Manager.	[REDACTED]		DOC5
Air Attack Supervisor	[REDACTED]		Fire 4
Safety Officer	Logan Akers		DOC5
10. Prepared By:		Dale Tawa	



SECTOR ASSIGNMENT

3. Sector <i>Zulu</i>	4. Description <i>Eastern Flank</i>	5. Division Assigned			
6. Sector Supervisor <i>Dale Tawa</i>		Affiliation <i>FENZ</i>	Phone [REDACTED]		
		Radio Ch <i>DOC 5</i>			
7. Resources Assigned this period					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> • Air attack on small perimeter smokers • Reactive deployment to this sector (tasking the same as Sierra) in event of increased fire activity • Awatapu land owners operating in southern part of Zulu sector 					
9. Sector Communications				Phone	Radio Ch
Operations Manager		[REDACTED]			<i>DOC5</i>
Air Attack Supervisor		[REDACTED]			<i>Fire 4</i>
Safety Officer		<i>Logan Akers</i>			<i>DOC5</i>
10. Prepared By: <i>Dale Tawa</i>					



Makara Fire, Chatham Island.
Shift period: 6th Feb 2018 0800-2000

SECTOR ASSIGNMENT					
3. Sector <i>Sierra</i>	4. Description <i>Northern Perimeter of Fire</i>			5. Division Assigned	
6. Sector Supervisor <i>Dale Tawa</i>		Affiliation <i>FENZ</i>	Phone [REDACTED]	Radio Ch <i>DOC 5</i>	
7. Resources Assigned this period					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
<i>Wellington</i>	[REDACTED]	<i>+5</i>	<i>Van</i>	<i>0800</i>	<i>1800</i>
<i>Hutt</i>	[REDACTED]	<i>5</i>		<i>0800</i>	<i>1800</i>
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> • Continuation of perimeter containment to a width of 10 meters • Establish drop points and provide details to GIS (Dave Carlton) • Develop ground access and provide details to GIS (Dave Carlton) • Maintain reporting schedules • Provide recommendations to Operations for future tasking and resourcing NLT 1300hrs • Redeployment to other sectors determined by fire behaviour • Home safe • Trigger point activation will require reassignment following predetermined response plan 					
9. Sector Communications				Phone	Radio Ch
Operations Manager.		[REDACTED]			<i>DOC5</i>
Air Attack Supervisor		[REDACTED]			<i>Fire 4</i>
Safety Officer		<i>Logan Akers</i>			<i>DOC5</i>
10. Prepared By: <i>Dale Tawa</i>					



Makara Fire, Chatham Island.
Shift period: 6th Feb 2018 0800-2000

3. Sector Sierra		4. Description Predetermined Contingency Response Plan			5. Division Assigned	
Dale Tawa		FENZ			DOC 5	
7. Resources Assigned this period						
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>	
Air Ops	[REDACTED]	1 x Squirrel 1 x B3				
Ground Crews	[REDACTED]	2 x 5-man crew				
Waitangi Fire Brigade	Steve Joyce	2 x Appliances				
8. Sector Assignment / Special Instructions						
Resources to redeploy as above in the event of fire escape						
<ul style="list-style-type: none"> • Breach of trigger point 1 requires all assets are directed towards structure protection • Priority to houses on southern side of Waitangi Owenga Road between Kopinga Marae and Te Matarae Road • Structures require four-meter foam fire break around houses • Helos will be deployed subject to fire behaviour and fire front direction • Breach of trigger point 2 requires immediate deployment of all assets to protection of sub-station and Kopinga Marae 						
9. Sector Communications				<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager	[REDACTED]				DOC5	
Air Attack Supervisor	[REDACTED]				Fire 4	
Safety Officer	Logan Akers				DOC5	
10. Prepared By: Dale Tawa						



MEDICAL PLAN						
3. First Aid Station						
Name	Location	Phone/Radio Channel	Paramedics available at Station			
Point 106	Staging	DOC 5	First Aiders			
Crew Leaders	Alpha Sector	DOC 5	First Aiders			
4. Transportation						
Ambulance Service	Address	Phone/Radio Channel	Paramedics available with Ambulance			
Air Operations (Evac only)						
St John Ambulance	1 Hospital Road	██████	Yes			
WestPac Rescue			Yes			
5. Hospitals						
Hospital Name	Address	Phone	Travel Time		Burn	
Chathams Medical Centre	1 Hospital Road	██████	Road 20 min	Air 10 min	Unit No	Pad No
6. Special Emergency Procedures						
<p>Medical Centre utilised to stabilise patients Life Flight dispatched from Wellington Check with Chathams Air for Aircraft Movements</p> <p>STAFF WITH KNOWN MEDICAL CONDITIONS: Advise Logistics Manager</p>						
7. Prepared by Logistics						
Manager / Safety Officer: LJA ████████						
8. Reviewed by Incident						
Controller:						



Makara Fire, Chatham Island.
Shift period: 6th Feb 2018 0800-2000

WEATHER AND FIRE BEHAVIOUR PREDICTION

		Temp	RH	Wind Km/hr	Wind Dir	ISI	Grass EROS 75% cured m/hr	Scrub EROS m/hr
Tuesday Morning	6/02/2018 4:00			35	NW	3.6	326	880
Tuesday afternoon	6/02/2018 16:00	23	65	37	NW	9.4	990	2550
Wednesday Morning	7/02/2018 4:00			30	WSW	2.7	200	564
Wednesday afternoon	7/02/2018 16:00	18	58	26	W	4.4	405	1397
Thursday Morning	8/02/2018 4:00			15	WSW	1.6	Negligible	Negligible
Thursday afternoon	8/02/2018 16:00	21	56	15	WSW	4.5	168	1060
Friday Morning	8/02/2018 4:00			10	SW	1	Negligible	Negligible
Friday afternoon	8/02/2018 16:00	21	56	15	SW	4.5	168	1060

Prepared By: *Rory Renwick*

Incident Action Plan



1. Approved by Incident Controller:

Name

Signed

Date/Time

Ian Reade



SITUATION REPORT

3. Location <i>South Western end Chatham Island</i>	4. Vegetation <i>Taneora Scrub / peat /</i>	5. NZTM Grid Ref.
6. Assessment Vegetation in Tarahina scrub fuels with areas of Peat, started on the 1 st Feb and ran until rain stopped the spread of fire late on the night of the 2 nd burning a total of around 240ha destroying one structure and burning up to another, both near the southern coastal end of the fireground. No further fire spread was experienced during Saturday Sunday. On Monday 4 th there were a few flare ups near the perimeter but crews and helicopters were able to contain these. Conditions on Tuesday were mild due to morning rain reducing fire activity.		
7. Action taken Public was evacuated from Waitangi Wharf Owenga Road as a precaution on the evening of 2nd Feb, and were allowed back into the area the following day once rain moderated fire behaviour Local machinery has mulched fuel breaks in Sector Zulu/Sierra, for protection of structures. Main focus of ground crews has been Sierra sector and northern Edge of Alpha. Two medium helicopters carrying out bucket work and crew transport on the 4th Feb – reducing the number of visible smokers around the perimeter, focussing on the currently inaccessible areas along the cliff face in Zulu. A local crew has been found to be mopping up around structures at the southern end of Zulu, and have been provided with some RPE, and communications so they can call for assistance in the event of an incident. Partial National Incident Management Team from NZ arrived midday on the 3rd Feb to assist with incident management.		
8. Factors Access around fireground difficult due to risk of peat tomorrows meaning access restricted to tracks with assistance of local guides. Obtaining resources that are not available on the island will take 2-4 days to arrive. Weather – See separate weather / fire behaviour predictions at back of IAP.		
9. Predicted Incident Development There is a high degree of confidence that further fore spread will be prevented and the objectives below will be achieved.		
10. Prepared by: <i>RORY RENWICK</i>		

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INCIDENT OBJECTIVES AND STRATEGIES

3. INCIDENT OBJECTIVE(S)/AIM MISSION: (SMART, Specific, Measureable, Achievable Relevant, Time bound)

General Ensure safety of all responders

Protect life of residents

Minimise loss of property (especially properties along Waitangi Wharf Owenga Road)

Minimise loss of other values. (especially Taiko Trust Ecological area, and Tuuta/Rangaika Reserve)

Specific objectives

To secure the entire perimeter by the 12th February. Secure perimeter being defined as:

- Targeted extinguishment of all burning material within 10-30m of perimeter that can be detected from a helicopter or drone by thermal camera and areas where canopy does not obscure view of the ground and
- Cold trail and black out perimeter to a width 20m in Sierra Sector and areas where the canopy obscures the view of the ground from the air.

Then patrol on days of elevated fire danger, until significant rain reduces drought codes.

4. STRATEGY/ STRATEGIES: (Plan of Action to meet Incident Objectives)

To contain to current extents.

- Direct attack with aircraft on smoking veg fires in all 3 sectors, with priorities being:
- Ensure perimeter is contained in Sierra, with action, evac lines established
- Ensure perimeter is contained on the cliff face on the south of Zulu
- Ground crew mop up along perimeter of Sierra ensuring peat burning is extinguished.
- Ground crews to be backed up with bucket work and transportation from helicopters.

Contingency should a significant escape occur incorporated into a predetermined response plan.

- Direct attack on flanks and indirect on head
- Defensive structure protection
- Evacuate ahead of the fire

5. Prepared by: Rory Renwick

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ORGANISATION LIST

3. Incident Control

		Phone	Cell Phone	Radio Ch
Incident Controller	Ian Reade	[REDACTED]		Doc 5
Deputy IC	Steve Joyce	[REDACTED]		Doc 5
Information Officer	[REDACTED]	[REDACTED]		Doc 5
Safety Officer	Logan Akers	[REDACTED]		Doc 5
Liaison Officer	[REDACTED]	[REDACTED]		Doc 5

4. Agency Representative

		Phone	Cell Phone	Radio Ch
Lead Agency	FENZ	[REDACTED]		Doc 5
Agency	MCDEM	[REDACTED]		
Agency	Enterprise Trust	[REDACTED]		
Agency				

5. Planning/Intel Section

		Phone	Cell Phone	Radio Ch
Planning/Intel Manager	Rory Renwick	[REDACTED]		Doc 5
Situations Unit	Rory Renwick			
Resources Unit	Pete Walker	[REDACTED]		Doc 5
Management Support Unit	[REDACTED]	[REDACTED]		Doc 5
Information Unit				
Technical Specialists Unit				

6. Logistics Section

		Phone	Cell Phone	Radio Ch
Logistics Manager	Pete Walker	[REDACTED]		Doc 5
Supply Unit	Sue Stewart		[REDACTED]	
Catering Unit	[REDACTED]	[REDACTED]		Doc 5
Facilities Unit	[REDACTED]			
Finance Unit	[REDACTED] / Sue Stewart	[REDACTED]	[REDACTED]	
Communications Unit	Peter Walker			
Medical Unit	Logan Akers	[REDACTED]		Doc 5

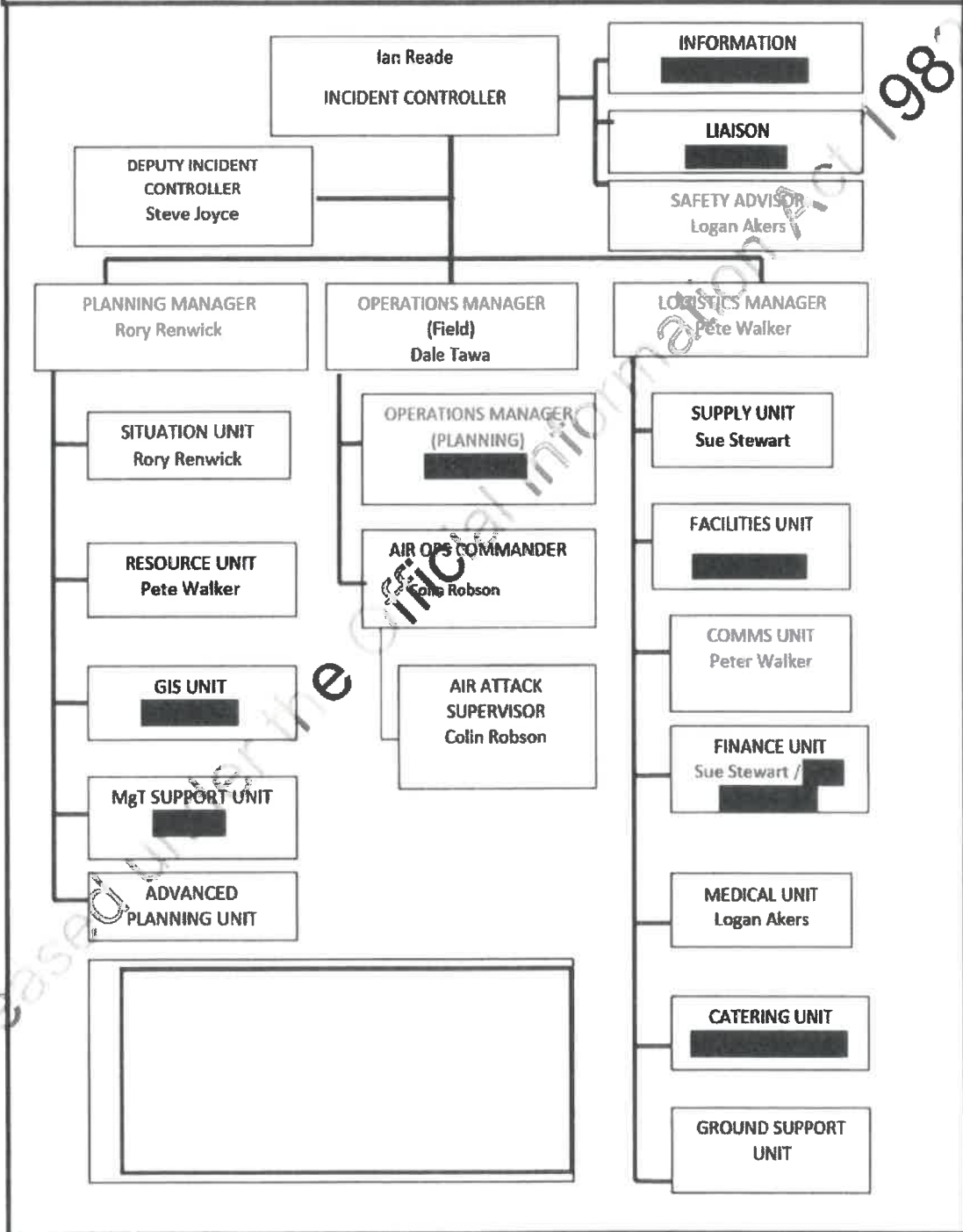


Makara Fire, Chatham Island.
Shift period: 7th Feb 2018 0800-2000

7. Operations Section		Phone	Cell Phone	Radio Ch
Operations Manager	Dale Tawa	[REDACTED]		Doc 5
Dep Ops / Dep Plan Manager	[REDACTED]	[REDACTED]		Doc 5
Sector Alpha Supervisor	Dale Tawa			
Sector Zulu Supervisor	Dale Tawa			
Sector Sierra Supervisor	Dale Tawa			
Air Attack Supervisor	Colin Robinson	[REDACTED]		Doc 5
Air Support Supervisor				
8. Prepared by:		Ian Reade		

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ORGANISATION CHART



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COMMUNICATIONS PLAN

3. Radio Channels

Assigned To	Function	Channel	Frequency	System
Command	Management	Doc 5		
Tactical	Tactics	Doc 15		
Ground to Air	Air Ops	Fire 4		
Air to Air	Pilots	119.1		

4. Telephone

Assigned To	Landline	Cellphone	Fax	Comments

6. Other (e.g. email, Satphone, etc)

Began unit available for internet and phone redundancy		

7. Prepared by:

Peter Walker

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AIR OPERATIONS PLAN

3. Personnel and Communications

Position	Name	Affiliation	Phone	Radio Chan
Air Div. Commander	Colin Robson	FENZ - Wellington		Fire 4 DOC 5
Air Attack Supervisor				
Air Support Supervisor				
Lead Helicopter Pilot	[REDACTED]	Southern Helicopters		Fire 4 DOC 5
Lead Fixed-Wing Pilot				

4. Air Resource Assignments

Pilot Name/ Company	Aircraft Type	Reg or Callsign	Assignment	Tactical Freq/Chan	Telephone Numbers
[REDACTED] - Southern Helicopters	Squirrel B3	IMR	Sectors A, Z, Redeployment of ground crews for structure protection on activation of trigger points	Fire 4	
[REDACTED] - Garden City		HGU		Fire 4	

5. Location of Filling Points/Service Areas

Name	Grid Reference
Chatham Airport	Various dipping points within fire ground

6. Safety Notes / Hazards / Radio Coverage Limitations

Power lines running East West on Owenga Road. Small Cessna fixed wing operating from airport from Pitt Island. Normal airport operations domestic from Tuuta airfield. 0600 thermal flight with Jamie

7. Air Operations Special Equip or Service

All Chatham's staff to transfer fuel from their tanker to Helo's following CAA standards.

8. Prepared By: Colin Robson

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SAFETY PLAN

3. General Safety Points

LACES	Fire Orders	Watchouts
<p>L - Lookout(s)</p> <p>A - Anchor Point(s)</p> <p>C - Communication(s)</p> <p>E - Escape Route(s)</p> <p>S - Safety Zone(s)</p>	<ol style="list-style-type: none"> 1. Fight fire aggressively but provide for safety first. 2. Initiate all action based upon current and expected fire behaviour. 3. Recognise current weather conditions and obtain forecasts. 4. Ensure instructions are given and understood. 5. Obtain current information on fire status. 6. Remain in Communication with crew members, your supervisor and adjoining forces. 7. Determine safety zones and escape routes. 8. Establish lookouts in potentially hazardous situations. 9. Retain control at all times. 10. Stay alert, keep calm, think clearly, act decisively. 	<ol style="list-style-type: none"> 1. Fire not scouted and sized up. 2. In country not seen in daylight. 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. Uninformed on strategy, tactics and hazards. 6. Instructions and assignments not clear. 7. No communications link with crew members or supervisor. 8. Constructing fireline without safe anchor point. 9. Constructing fireline downhill with fire below. 10. Attempting frontal assault on fire. 11. Unburned fuel between you and the fire. 12. Cannot see main fire, not in contact with anyone who can. 13. On hillside where rolling material can ignite fuel below. 14. Weather is getting hotter and drier. 15. Wind increases and/or changes direction. 16. Getting frequent spot fires across the line. 17. Terrain and fuels make escape to safety zones difficult. 18. Taking a nap near the fire line.

4. Specific Safety Points

Fatigue – Crew Boss to monitor

Slips and Falls – Crew briefings

Air Operations – Crew briefings, pilots and Air Ops monitoring

Weather – Crew boss and pilots to monitor - Rapid changes, electrical storms (hypo, hyper)

Driving – All personnel briefed

Dust – Air Crews advised – ground crews supplied PPE and monitor

Tools and Foam – Correct handling and storage – crews briefed

Poor communications – particularly Alpha and Sierra – air ops to monitor radio

PLB – RCCNZ notified of Chatham Islands activity

Peat Bog – ground crews briefed

Livestock / Bees – Ground crews briefed

Non FENZ resources – Operating on the fire ground. Assistance provided, welfare monitored

5. Prepared By:

Logan Akers

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Makara Fire, Chatham Island.
Shift period: 7th Feb 2018 0800-2000

SECTOR ASSIGNMENT

3. Sector <i>Alpha</i>	4. Description <i>Direct attack on the Western Flank</i>	5. Division Assigned			
6. Sector Supervisor <i>Dale Tawa</i>	Affiliation <i>FENZ</i>	Phone [REDACTED]	Radio Ch <i>DOC5</i>		
7. Resources Assigned this period					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/time	Pickup Point/time
<i>Wellington</i>	[REDACTED]	<i>+5</i>	<i>Van</i>	<i>0800</i>	<i>1800</i>
<i>Hutt</i>	[REDACTED]	<i>5</i>		<i>0800</i>	<i>1800</i>
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> • <i>Hutt Crew working in southern part of sector under canopy</i> • <i>Wellington working in central part of sector under canopy</i> • <i>Continuation of perimeter containment</i> • <i>Establish drop points and GPS</i> • <i>Develop and flag ground access</i> • <i>Maintain reporting schedules</i> • <i>Re-deployment to other sectors determined by fire behaviour</i> • <i>Home safe</i> 					
9. Sector Communications				Phone	Radio Ch
Operations Manager		[REDACTED]			<i>DOC5</i>
Air Attack Supervisor		<i>Colin Robinson</i>			<i>Fire 4</i>
Safety Officer		<i>Logan Akers</i>			<i>DOC5</i>
10. Prepared By: <i>Dale Tawa</i>					

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Makara Fire, Chatham Island.
Shift period: 7th Feb 2018 0800-2000

SECTOR ASSIGNMENT					
3. Sector <i>Zulu</i>		4. Description <i>Eastern Flank</i>		5. Division Assigned	
6. Sector Supervisor <i>Dale Tawa</i>		Affiliation <i>FENZ</i>		Phone [REDACTED]	
				Radio Ch <i>DOC 5</i>	
7. Resources Assigned this period					
Resource/Crew <i>DOC Crew</i>		Leader <i>Binney</i>	# Persons <i>3</i>	Transport Required <i>2x2 Seater LUV</i>	Drop-off Point/time
					Pickup Point/time
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> • Air attack on small perimeter smokers • Reactive deployment to this sector (tasking the same as Sierra) in event of increased fire activity • Awatapu land owners operating in southern part of Zulu sector • DOC to GPS track access from existing fire break in western sector to high point feature 205 in grid square 9922 • DOC identify suitable Drop Points within fireground and clear Heli pads if required and provide co-ordinates. • DOC to route mark all access for LUV within fireground boundaries and map. 					
9. Sector Communications:				Phone	Radio Ch
Operations Manager		[REDACTED]			<i>DOC5</i>
Air Attack Supervisor		<i>Colin Robinson</i>			<i>Fire 4</i>
Safety Officer		<i>Logan Akers</i>			<i>DOC5</i>
10. Prepared By: <i>Dale Tawa</i>					



SECTOR ASSIGNMENT					
3. Sector <i>Sierra</i>	4. Description <i>Northern Perimeter of Fire</i>			5. Division Assigned	
6. Sector Supervisor <i>Dale Tawa</i>	Affiliation <i>FENZ</i>	Phone [REDACTED]	Radio Ch <i>DOC 5</i>		
7. Resources Assigned this period					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> Continuation of perimeter containment to a width of 10 meters Establish drop points and provide details to GIS (Dave Carlton) Develop ground access and provide details to GIS (Dave Carlton) Maintain reporting schedules Provide recommendations to Operations for future tasking and resourcing NLT 1300hrs Redeployment to other sectors determined by fire behaviour Home safe Trigger point activation will require reassignment following predetermined response plan 					
9. Sector Communications					
Operations Manager.	[REDACTED]	Phone	Radio Ch <i>DOC5</i>		
Air Attack Supervisor	<i>Colin Robinson</i>		Radio Ch <i>Fire 4</i>		
Safety Officer	<i>Logan Akers</i>		Radio Ch <i>DOC5</i>		
10. Prepared By: <i>Dale Tawa</i>					

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Makara Fire, Chatham Island.
Shift period: 7th Feb 2018 0800-2000

SECTOR ASSIGNMENT					
3. Sector		4. Description		5. Division Assigned	
		Predetermined Contingency Response Plan			
Dale Tawa		FENZ		DOC 5	
7. Resources Assigned this period					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/time	Pickup Point/time
Air Ops	Colin Robson	1 x Squirrel 1 x B3			
Ground Crews		2 x 5-man crew			
Waitangi Fire Brigade	Steve Joyce	2 x Appliances			
8. Sector Assignment / Special Instructions					
Resources to redeploy as above in the event of fire escape					
<ul style="list-style-type: none"> Breach of trigger point 1 requires withdrawal of ground crews and redeployment towards structure protection 					
WAITANGI OWENGA ROAD EVACUATION DETAIL.					
Trigger Point 1.					
Allowing 10L foam concentrate / property starting nearest breach and on the south side of the road, ignoring 2 X undefendable identified properties 1420 – behind 2 fire breaks – protect only if fire crosses first fire break. 1028 – defendable grass surround 834 – wet grass area behind sheds if owner is unable to harrow/mulch ground 798 – HIGH RISK – Do not commit crews – Foam dump from air 756 - defendable grass surround					
Trigger Point 2.					
Chatham Island Urban respond to Power Station 1 Helo to defend Generators 1 Helo to protect transmission lines Ground crews redirected to Kopinga with Fulton Hogan					
9. Sector Communications				Phone	Radio Ch
Operations Manager					DOC5
Air Attack Supervisor	Colin Robinson				Fire 4
Safety Officer	Logan Akers				DOC5
10. Prepared By: Dale Tawa					

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SECTOR ASSIGNMENT					
3. Sector		4. Description		5. Division Assigned	
		Incident Within Incident Response Plan		Safety	
Logan Akers		FENZ		DOC 5	
7. Resources Assigned this period					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/time	Pickup Point/time
Air Ops	Colin Robson	1 x Squirrel 1 x B3			
Ground Crews		2 x 5-man crew			
Waitangi Fire Brigade	Steve Joyce	2 x Appliances			
8. Sector Assignment / Special Instructions					
Injury Accident Contingency <ul style="list-style-type: none"> • Provide First Aid • Pass Priority message requesting assistance • Senior person "ON SCENE" assumes responsibility for the "New" incident • Advice Incident Controller of secondary incident. • Most appropriate Senior person "OFF SCENE" assumes responsibility for the "Existing" incident • Formal K45 returning sector command at conclusion of "New" incident and resumption of normal operations. 					
Aircraft Incident Contingency <ul style="list-style-type: none"> • Second aircraft immediately tracks to "Last Known Location" Confirm status and location of effected aircraft. • If necessary, Pass Priority Message before landing to render immediate assistance or diverting to pick up nearest Fire Crew resources and returning to scene. • Advice Incident Controller of aircraft incident. 					
9. Sector Communications			Phone	Radio Ch	
Operations Manager				DOC5	
Air Attack Supervisor	Colin Robinson			Fire 4	
Safety Officer	Logan Akers			DOC5	
10. Prepared By: Logan AKers					

Released under the Official Information Act 1982



MEDICAL PLAN						
3. First Aid Station						
Name	Location	Phone/Radio Channel	Paramedics available at Station			
<i>Point 106</i>	<i>Staging</i>	<i>DOC 5</i>	<i>First Aiders</i>			
<i>Crew Leaders</i>	<i>Alpha Sector</i>	<i>DOC 5</i>	<i>First Aiders</i>			
4. Transportation Ambulance Service						
	Address	Phone/Radio Channel	Paramedics available with Ambulance			
<i>Air Operations (Emergency Evac only)</i>						
<i>St John Ambulance</i>	<i>1 Hospital Road</i>		<i>Yes</i>			
<i>WestPac Rescue</i>			<i>Yes</i>			
<i>Life Flight</i>						
5. Hospitals						
Heli		Travel Time			Burn	
Hospital Name	Address	Phone	Road	Air	Unit	Pad
<i>Chathams Medical Centre</i>	<i>1 Hospital Road</i>		<i>20 min</i>	<i>10 min</i>	<i>No</i>	<i>No</i>
6. Special Emergency Procedures						
<p><i>Medical Centre utilised to stabilise patients</i></p> <p><i>Life Flight dispatched from Wellington</i></p> <p><i>Check with Chathams Air for Aircraft Movements</i></p> <p>STAFF WITH KNOWN MEDICAL CONDITIONS: <i>Advise Logistics Manager</i></p>						
7. Prepared by Logistics Manager / Safety Officer:] <i>Logan Akers</i>						
8. Reviewed by Incident Controller:						

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Makara Fire Chatham Island.
Shift period: 7 Feb 2018 0800-2000

WEATHER AND FIRE BEHAVIOUR PREDICTION

		Temp	RH	Wind Km/hr	Wind Dir	FFMC	ISI	Grass EROS 75% cured m/hr	Scrub EROS m/hr
Wednesday Morning	7/02/2018 4:00			30	WSW	70	2.7	200	564
Wednesday afternoon	7/02/2018 16:00	20	65	26	W	85	7.8	650	1950
Thursday Morning	8/02/2018 4:00			15	WSW	70	1.6	Negligible	Negligible
Thursday afternoon	8/02/2018 16:00	21	60	15	WSW	85	4.5	168	1060
Friday Morning	8/02/2018 4:00			10	SW	70	1	Negligible	Negligible
Friday afternoon	8/02/2018 16:00	22	60	15	SW	85	4.5	168	1060

Prepared By: *Rory Renwick*



Updated forecast – 6 February 4:00 pm NZDT

Through to midnight Tuesday:

- Wind SW to WSW. Sustained wind speeds 30-40 km/h with gusts to 60 km/h through to 8 pm, thereafter easing to 20-35 km/h with gusts up to 50 km/h.
- Temperature falling to near 11 degrees by midnight.
- Humidity decreasing from 90-95% to near 70%, before increasing again after sunset to near 85% by midnight.
- An odd shower possible. Rainfall, if any, less than 2 mm.

Wednesday (midnight to midnight):

- Sustained winds W to SW through to sunrise, tending more SW'ly after sunrise. Sustained at 20-30 km/h, with gusts up to 50 km/h to near 6 pm, easing to 10-25 km/h with gusts to 35 km/h after 6 pm.
- Early morning minimum temperature 11 degrees, increasing to near 20 degrees in the afternoon.
- Early morning maximum humidity near 90%, falling to 65% in the afternoon, then returning to near 90% by midnight.
- Slight chance of a shower, otherwise dry. Any rainfall less than 2 mm.

Thursday (midnight to midnight):

- Wind S to SW tending more S'ly near 6 am, then WSW to WNW from near midday to near 6 pm, thereafter becoming NNW to NE through to midnight. Sustained winds 20 km/h or less, with gusts to 35 km/h.
- Early morning minimum temperature 11-12 degrees, increasing to 20-21 degrees in the afternoon.
- Early morning maximum humidity near 85-90%, falling to 60% in the afternoon.
- Slight chance of a shower, otherwise dry. Any rainfall less than 2 mm.

Outlook for Friday

- Winds N to NW, sustained 25 km/h or less,
- Maximum temperatures 22-23 degrees.
- Minimum relative humidity to 60%.
- Dry to mainly dry weather expected.

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Makara Fire, Chatham Island.
Shift period: 8th Feb 2018 0800-2000

Incident Action Plan



1. Approved by Incident Controller:

Name

Signed

Date/Time

Jan Rade

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SITUATION REPORT

3. Location <i>South Western end Chatham Island</i>	4. Vegetation <i>Taneora Scrub / peat /</i>	5. NZTM Grid Ref.
6. Assessment <p>Vegetation in Tarahina scrub fuels with areas of Peat, started on the 1st Feb and ran until rain stopped the spread of fire late on the night of the 2nd burning a total of around 2448ha destroying one structure and burning up to another, both near the southern coastal end of the fireground. No further fire spread was experienced during Saturday Sunday. On Monday 4th and Wednesday the 5th there were a few flare ups near the perimeter but crews and helicopters were able to contain these.</p>		
7. Action taken <p>Public was evacuated from Waitangi Wharf Owenga Road as a precaution on the evening of 2nd Feb, and were allowed back into the area the following day once rain moderated fire behaviour.</p> <p>Local machinery has mulched fuel breaks in Sector Zulu Sierra, for protection of structures.</p> <p>Main focus of ground crews has been Sierra sector and northern Edge of Alpha.</p> <p>Two medium helicopters carrying out bucket work and crew transport on the 4th Feb – reducing the number of visible smokers around the perimeter, focussing on the currently inaccessible areas along the cliff face in Zulu.</p> <p>A local crew has done considerable mopping up around structures at the southern end of Zulu, and have been provided with some RPE and communications so they can call for assistance in the event of an incident.</p> <p>Partial National Incident Management Team from NZ arrived midday on the 3rd Feb to assist with incident management.</p>		
8. Factors <p>Access around fireground difficult due to risk of peat tomo's meaning access restricted to tracks with assistance of local guides.</p> <p>Obtaining resources that are not available on the island will take 2-4 days to arrive.</p> <p>Weather – See separate weather / fire behaviour predictions at back of IAP.</p>		
9. Predicted Incident Development <p>There is a high degree of confidence that further fire spread will be prevented and the objectives below will be achieved.</p>		
10. Prepared by: <i>RORY RENWICK</i>		

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INCIDENT OBJECTIVES AND STRATEGIES

3. INCIDENT OBJECTIVE(S)/AIM MISSION: (SMART, Specific, Measurable, Achievable Relevant, Time bound)

General Ensure safety of all responders

Protect life of residents

Minimise loss of property (especially properties along Waitangi Wharf Owenga Road)

Minimise loss of other values. (especially Taiko Trust Ecological area, and Tuuta/Rangaika Reserve)

Specific objectives

To secure the entire perimeter by the 12th February. Secure perimeter being defined as:

- Targeted extinguishment of all burning material within 10-30m of perimeter that can be detected from a helicopter or drone by thermal camera in areas where canopy does not obscure view of the ground and
- Cold trail and black out perimeter to a width 20m in Sierra Sector and areas where the canopy obscures the view of the ground from the air.

Then patrol on days of elevated fire danger, until significant rain reduces drought codes.

4. STRATEGY/ STRATEGIES: (Plan of Action to meet Incident Objectives)

Direct attack with ground crews and aircraft

Establish ground access to centre of fire for LU's and 4x4

Establish landing zones for crew access by helicopter

Map hotspots with thermal camera from helicopter.

Maintain at least two NZ crews and one helicopter on island until Sierra is secure and good access has been established to all area.

5. Prepared by: Rory Renwick



ORGANISATION LIST

3. Incident Control		Phone	Cell Phone	Radio Ch
Incident Controller	<i>Ion Reade</i>	██████		<i>Doc 5</i>
Deputy IC	<i>Steve Joyce</i>	██████		<i>Doc 5</i>
Information Officer	██████████	██████		<i>Doc 5</i>
Safety Officer	<i>Logan Akers</i>	██████		<i>Doc 5</i>
Liaison Officer	██████████	██████		<i>Doc 5</i>
4. Agency Representative		Phone	Cell Phone	Radio Ch
Lead Agency	FENZ	██████		<i>Doc 5</i>
Agency	MCDEM	██████		
Agency	Enterprise Trust	██████		
Agency				
5. Planning/Intel Section		Phone	Cell Phone	Radio Ch
Planning/Intel Manager	<i>Rory Renwick</i>	██████		<i>Doc 5</i>
Situations Unit	<i>Rory Renwick</i>			
Resources Unit	<i>Pete Walker</i>	██████		<i>Doc 5</i>
Management Support Unit	██████████	██████		<i>Doc 5</i>
Information Unit				
Technical Specialists Unit				
6. Logistics Section		Phone	Cell Phone	Radio Ch
Logistics Manager	<i>Pete Walker</i>	██████		<i>Doc 5</i>
Supply Unit	<i>Sue Stewart (NZ based)</i>		██████	
Catering Unit	██████████	██████		<i>Doc 5</i>
Facilities Unit	██████████			
Finance Unit	██████████ <i>Sue Stewart</i>	██████	██████	
Communications Unit	<i>Peter Walker</i>			
Medical Unit	<i>Logan Akers</i>	██████		<i>Doc 5</i>

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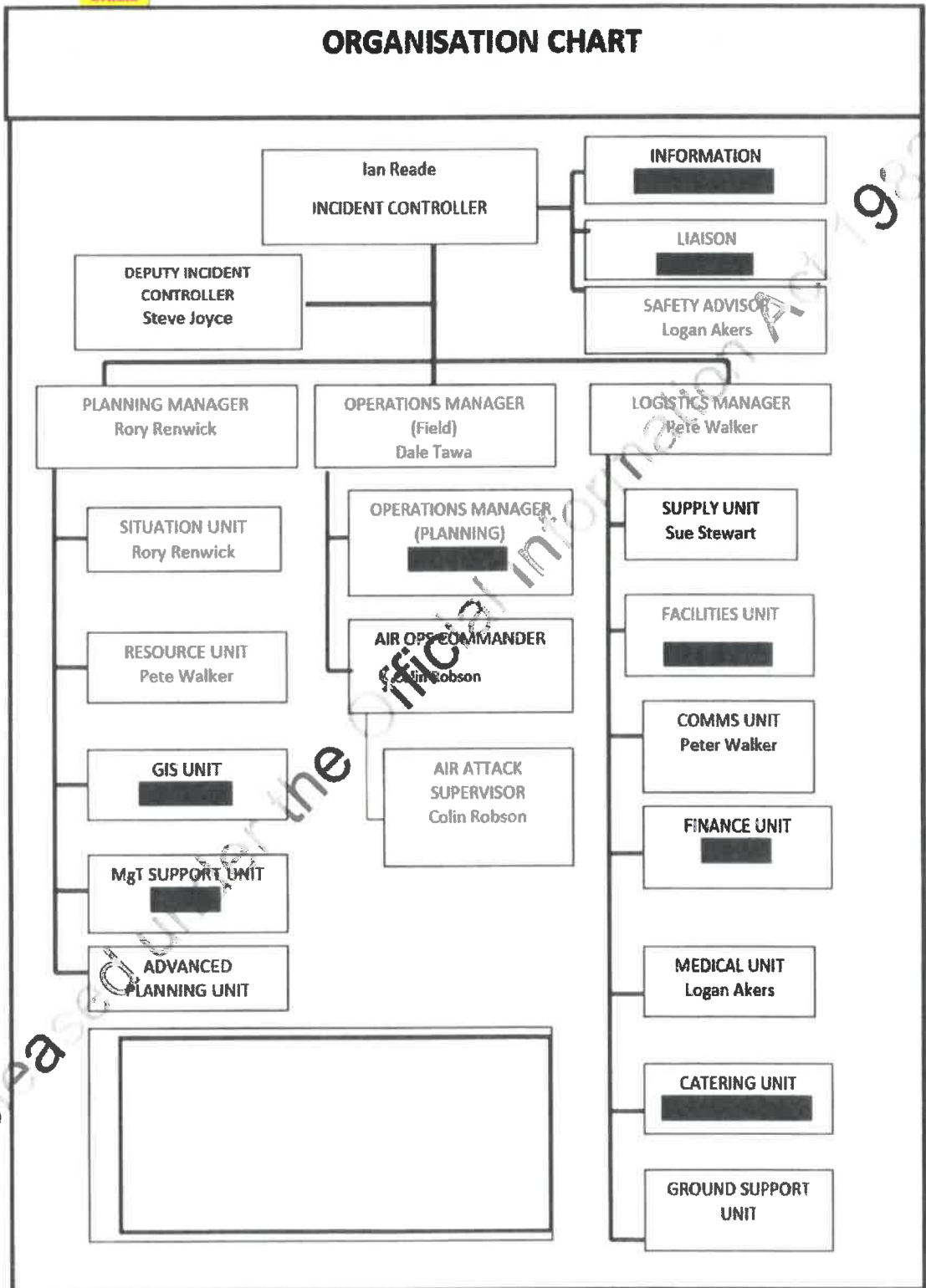


Makara Fire, Chatham Island.
Shift period: 8th Feb 2018 0800-2000

7. Operations Section		Phone	Cell Phone	Radio Ch
Operations Manager	Dale Tawa	[REDACTED]		Doc 5
Dep Ops / Dep Plan Manager	[REDACTED]	[REDACTED]		Doc 5
Sector Alpha Supervisor	Dale Tawa			
Sector Zulu Supervisor	Dale Tawa			
Sector Sierra Supervisor	Dale Tawa			
Air Attack Supervisor	Colin Robinson	[REDACTED]		Doc 5
Air Support Supervisor				
8. Prepared by:		Ian Reade		

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ORGANISATION CHART





COMMUNICATIONS PLAN				
3. Radio Channels				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Command	Management	Doc 5		
Tactical	Tactics	Doc 15		
Ground to Air	Air Ops	Fire 4		
Air to Air	Pilots	119.1		
4. Telephone				
<i>Assigned To</i>	<i>Landline</i>	<i>Cellphone</i>	<i>Fax</i>	<i>Comments</i>
6. Other (e.g. email, Satphone, etc)				
<i>Began unit available for internet and phone redundancy</i>				
FENZ SAT Phone				
7. Prepared by: <i>Peter Walker</i>				

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AIR OPERATIONS PLAN

3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Air Div. Commander	Colin Robson	FENZ - Wellington		Fire 4 DOC 5
Air Attack Supervisor				
Air Support Supervisor				
Lead Helicopter Pilot	██████████	Southern Helicopters		Fire 4 DOC 5
Lead Fixed-Wing Pilot				

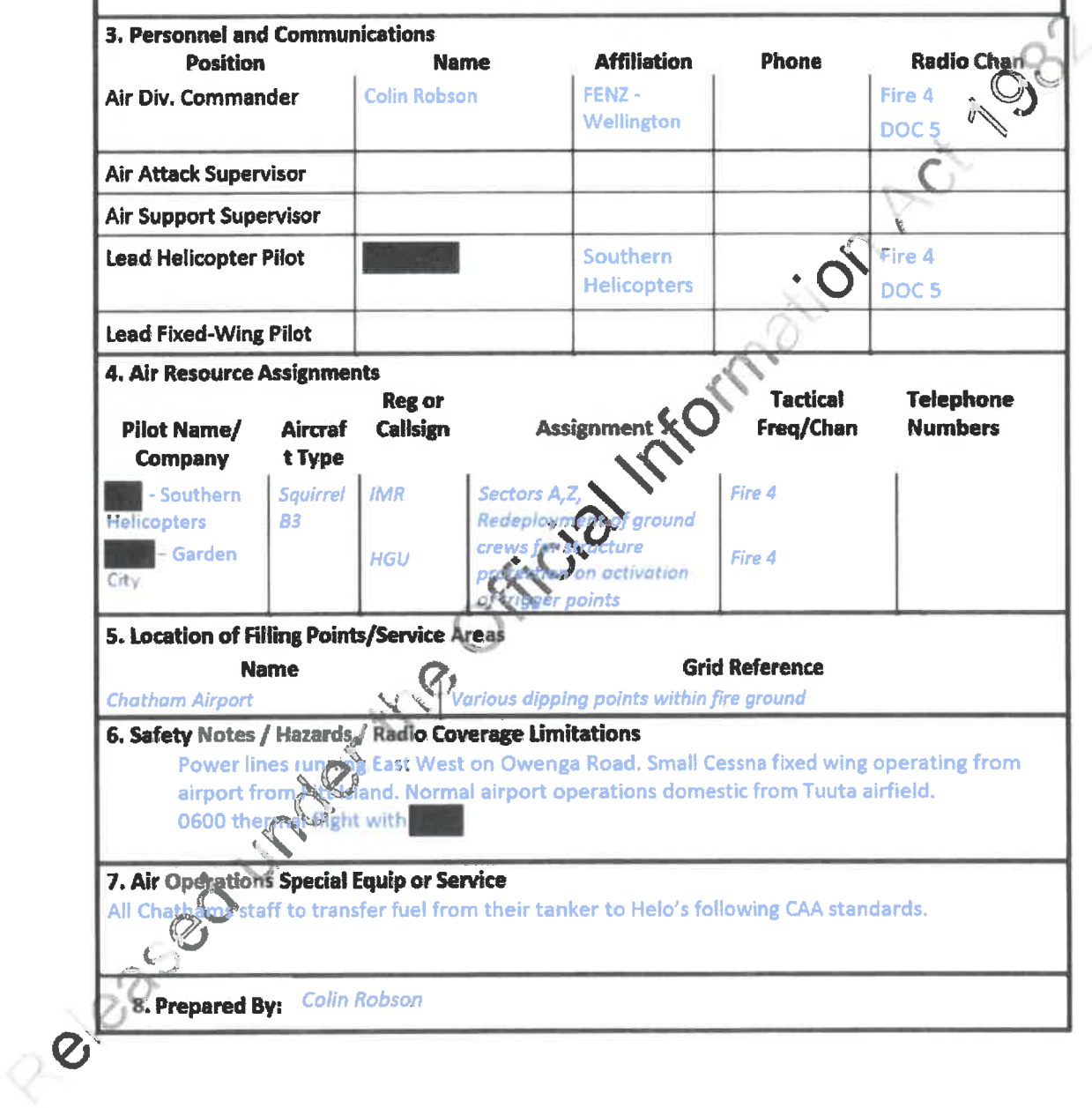
4. Air Resource Assignments					
Pilot Name/ Company	Aircraft Type	Reg or Callsign	Assignment	Tactical Freq/Chan	Telephone Numbers
██████ - Southern Helicopters	Squirrel B3	IMR	Sectors A,Z, Redeployment of ground crews for structure protection on activation of trigger points	Fire 4	
██████ - Garden City		HGU		Fire 4	

5. Location of Filling Points/Service Areas	
Name	Grid Reference
Chatham Airport	Various dipping points within fire ground

6. Safety Notes / Hazards / Radio Coverage Limitations
 Power lines running East West on Owenga Road. Small Cessna fixed wing operating from airport from ████ Island. Normal airport operations domestic from Tuuta airfield. 0600 then hel flight with ██████

7. Air Operations Special Equip or Service
 All Chatham staff to transfer fuel from their tanker to Helo's following CAA standards.

8. Prepared By: Colin Robson





SAFETY PLAN		
3. General Safety Points		
<p style="text-align: center;">LACES</p> <p>L - Lookout(s)</p> <p>A – Anchor Point(s)</p> <p>C – Communication(s)</p> <p>E – Escape Route(s)</p> <p>S – Safety Zone(s)</p>	<p style="text-align: center;">Fire Orders</p> <ol style="list-style-type: none"> 1. Fight fire aggressively but provide for safety first. 2. Initiate all action based upon current and expected fire behaviour. 3. Recognise current weather conditions and obtain forecasts. 4. Ensure instructions are given and understood. 5. Obtain current information on fire status. 6. Remain in Communication with crew members, your supervisor and adjoining forces. 7. Determine safety zones and escape routes. 8. Establish lookouts in potentially hazardous situations. 9. Retain control at all times. 10. Stay alert, keep calm, think clearly, act decisively. 	<p style="text-align: center;">Watchouts</p> <ol style="list-style-type: none"> 1. Fire not scouted and sized up. 2. In country not seen in daylight. 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. Uninformed on strategy, tactics and hazards. 6. Instructions and assignments not clear. 7. No communications link with crew members or supervisor. 8. Constructing fireline without safe anchor point. 9. Constructing fireline downhill with fire below. 10. Attempting frontal assault on fire. 11. Unburned fuel between you and the fire. 12. Cannot see main fire, not in contact with anyone who can. 13. On hillside where rolling material can ignite fuel below. 14. Weather is getting hotter and drier. 15. Wind increases and/or changes direction. 16. Getting frequent spot fires across the line. 17. Terrain and fuels make escape to safety zones difficult. 18. Taking a nap near the fire line.
4. Specific Safety Points		
<p><i>Fatigue – Crew Boss to monitor</i></p> <p><i>Slips and Falls – Crew briefings</i></p> <p><i>Air Operations – Crew briefings, pilots and Air Ops monitoring</i></p> <p><i>Weather – Crew boss and pilots to monitor - Rapid changes, electrical storms (hypo, hyper)</i></p> <p><i>Driving – All personnel briefed</i></p> <p><i>Dust – Air Crews advised – ground crews supplied PPE and monitor</i></p> <p><i>Fuels and Foam – Correct handling and storage – crews briefed</i></p> <p><i>Pool communications – particularly Alpha and Sierra – air ops to monitor radio</i></p> <p><i>PLB – RCCNZ notified of Chatham Islands activity</i></p> <p><i>Peat Bog – ground crews briefed</i></p> <p><i>Livestock / Bees – Ground crews briefed</i></p> <p><i>Non FENZ resources – Operating on the fire ground. Assistance provided, welfare monitored</i></p> <p><i>Off road driving – restricted to DOC and other qualified personnel.</i></p>		
5. Prepared By:		Logan Akers

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SECTOR ASSIGNMENT

3. Sector <i>Alpha</i>	4. Description Direct attack on the Western Flank	5. Division Assigned	
6. Sector Supervisor Dale Tawa	Affiliation FENZ	Phone [REDACTED]	Radio Ch DOC 5
7. Resources Assigned this period			
Resource/Crew	Leader	# Persons	Transport Required
Wellington	[REDACTED]	+5	Van
Hutt	[REDACTED]	5	0800
			Drop-off Point/time 0800
			Pickup Point/time 1800
8. Sector Assignment / Special Instructions			
<ul style="list-style-type: none"> Hutt Crew working in southern part of sector under canopy Wellington working in central part of sector under canopy Continuation of perimeter containment Establish drop points and GPS Develop and flag ground access Maintain reporting schedules Re-deployment to other sectors determined by fire behaviour Home safe 			
9. Sector Communications		Phone	Radio Ch
Operations Manager: [REDACTED]			DOC5
Air Attack Supervisor: Colin Robinson			Fire 4
Safety Officer: Logan Akers			DOC5
10. Prepared By: Dale Tawa			

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SECTOR ASSIGNMENT					
3. Sector Zulu		4. Description Eastern Flank		5. Division Assigned	
6. Sector Supervisor Dale Tawa		Affiliation FENZ		Phone [REDACTED]	
Radio Ch DOC 5					
7. Resources Assigned this period					
Resource/Crew DOC Crew		Leader Binney	# Persons 3	Transport Required 2x2 Seater LUV	Drop Off Point/Time
Pickup Point/time					
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> • Air attack on small perimeter smokers • Reactive deployment to this sector (tasking the same as Sierra) in event of increased fire activity • Awatapu land owners operating in southern part of Zulu sector • DOC to GPS track access from existing fire break in western sector to high point feature 205 in grid square 9934 • DOC identify suitable Drop Points within fireground and clear Heli pads if required and provide co-ordinates. • DOC to route mark all access for LUV within fireground boundaries and map. 					
9. Sector Communications				Phone	Radio Ch
Operations Manager		[REDACTED]			DOC5
Air Attack Supervisor		Colin Robinson			Fire 4
Safety Officer		Logan Akers			DOC5
10. Prepared By: Dale Tawa					

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SECTOR ASSIGNMENT					
3. Sector <i>Sierra</i>		4. Description Northern Perimeter of Fire		5. Division Assigned	
6. Sector Supervisor Dale Tawa		Affiliation FENZ		Phone [REDACTED]	Radio Ch DOC 5
7. Resources Assigned this period					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/time	Pickup Point/time
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> Continuation of perimeter containment to a width of 10 meters Establish drop points and provide details to GIS [REDACTED] Develop ground access and provide details to GIS [REDACTED] Maintain reporting schedules Provide recommendations to Operations for future tasking and resourcing NLT 1300hrs Redeployment to other sectors determined by fire behaviour Home safe Trigger point activation will require reassignment following predetermined response plan 					
9. Sector Communications				Phone	Radio Ch
Operations Manager.		[REDACTED]			DOC5
Attack Supervisor		Colin Robinson			Fire 4
Safety Officer		Logan Akers			DOC5
10. Prepared By: Dale Tawa					

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Makara Fire, Chatham Island.
Shift period: 8th Feb 2018 0800-2000

SECTOR ASSIGNMENT					
3. Sector		4. Description			5. Division Assigned
		Predetermined Contingency Response Plan			
Dale Tawa		FENZ			DOC 5
7. Resources Assigned this period					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/time	Pickup Point/time
Air Ops	Colin Robson	1 x Squirrel 1 x B3			
Ground Crews		2 x 5-man crew			
Waitangi Fire Brigade	Steve Joyce	2 x Appliances			
8. Sector Assignment / Special Instructions					
Resources to redeploy as above in the event of fire escape					
<ul style="list-style-type: none"> Breach of trigger point 1 requires withdrawal of ground crews and redeployment towards structure protection 					
WAITANGI OWENGA ROAD EVACUATION DETAIL.					
Trigger Point 1.					
Allowing 10L foam concentrate / property starting nearest breach and on the south side of the road, ignoring 2 X un-defendable identified properties 1420 – behind 2 fire breaks – protect only if fire crosses first fire break. 1028 – defendable grass surround 834 – wet grass area behind sheds if owner is unable to harrow/mulch ground 798 – HIGH RISK – Do not commit crews – Foam dump from air 756 - defendable grass surround					
Trigger Point 2.					
Chatham Island Urban respond to Power Station 1 Helo to defend Generators 1 Helo to protect transmission lines Ground crews redirected to Kopinga with Fulton Hogan					
9. Sector Communications			Phone	Radio Ch	
Operations Manager				DOC5	
Air Attack Supervisor		Colin Robinson		Fire 4	
Safety Officer		Logan Akers		DOC5	
10. Prepared By: Dale Tawa					

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SECTOR ASSIGNMENT					
3. Sector		4. Description			5. Division Assigned
		Incident Within Incident Response Plan			Safety
Logan Akers		FENZ			DOC 5
7. Resources Assigned this period					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/time	Pickup Point/time
Air Ops	Colin Robson	1 x Squirrel 1 x B3			
Ground Crews		2 x 5-man crew			
Waitangi Fire Brigade	Steve Joyce	2 x Appliances			
8. Sector Assignment / Special Instructions					
<p>Injury Accident Contingency</p> <ul style="list-style-type: none"> • Provide First Aid • Pass Priority message requesting assistance • Senior person "ON SCENE" assumes responsibility for the "New" incident • Advice Incident Controller of secondary incident. • Most appropriate Senior person "OFF SCENE" assumes responsibility for the "Existing" incident • Formal K45 returning sector command at conclusion of "New" incident and resumption of normal operations. <p>Aircraft Incident Contingency</p> <ul style="list-style-type: none"> • Second aircraft immediately tracks to "Last Known Location" Confirm status and location of effected aircraft. • If necessary, Pass Priority Message before landing to render immediate assistance or diverting to pick up nearest Fire Crew resources and returning to scene. • Advice Incident Controller of aircraft incident. 					
9. Sector Communications				Phone	Radio Ch
Operations Manager					DOC5
Air Attack Supervisor		Colin Robinson			Fire 4
Safety Officer		Logan Akers			DOC5
10. Prepared By: Logan AKers					



MEDICAL PLAN							
3. First Aid Station							
Name	Location	Phone/Radio Channel		Paramedics available at Station			
<i>Point 106</i>	<i>Staging</i>	<i>DOC 5</i>		<i>First Aiders</i>			
<i>Crew Leaders</i>	<i>Alpha Sector</i>	<i>DOC 5</i>		<i>First Aiders</i>			
4. Transportation							
Ambulance Service		Address	Phone/Radio Channel		Paramedics available with Ambulance		
<i>Air Operations (Emergency Evac only)</i>							
<i>St John Ambulance</i>		<i>1 Hospital Road</i>	[REDACTED]		<i>Yes</i>		
<i>WestPac Rescue</i>					<i>Yes</i>		
Life Flight							
5. Hospitals							
Heli				Travel Time		Burn	
Hospital Name	Address	Phone	Road	Air	Unit	Pad	
<i>Chathams Medical Centre</i>	<i>1 Hospital Road</i>	[REDACTED]	<i>20 min</i>	<i>10 min</i>	<i>No</i>	<i>No</i>	
6. Special Emergency Procedures							
<i>Medical Centre utilised to stabilise patients</i>							
<i>Life Flight dispatched from Wellington</i>							
<i>Check with Chathams Air for Aircraft Movements</i>							
<i>STAFF WITH KNOWN MEDICAL CONDITIONS: Advise Logistics Manager</i>							
7. Prepared by Logistics Manager / Safety Officer:] <i>Logan Akers</i>							
8. Reviewed by Incident Controller:							

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Makara Fire Chatham Island.
Shift period 8 Feb 2018 0800-2000

Act

WEATHER AND FIRE BEHAVIOUR PREDICTION

	Temp	RH	Wind Km/hr	Wind Dir	FFMC	ISI	Grass EROS 75% cured m/hr	Scrub EROS m/hr
Thursday Morning			15	SE	70	1.6	Negligible	Negligible
Thursday afternoon	21	60	15	SE	82.5	4.5	160	650
Friday Morning			10	E	78	1.6	Negligible	268
Friday afternoon	22	60	15	NE	85	4.5	168	1060
Saturday Morning			15	NE	80	2.4	100	487
Saturday afternoon	23	60	20	NE	86	6.9	511	1650

Prepared By: Rory Renwick

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Makara Fire, Chatham Island.
Shift period: 8th Feb 2018 0800-2000

Updated forecast – 7 February 4:00 pm NZDT

Rest of Wednesday (through to midnight):

- Winds SW 10-25 km/h easing to 10-25 km/h with gusts to 35 km/h.
- Temperature falling to near 14°C by midnight
- Relative humidity increasing to 85-90% by midnight.
- Slight chance of a shower, otherwise dry. Rainfall, if any, less than 2 mm.

Thursday (midnight to midnight):

- Wind backing with time from SW before sunrise, to S by midday, then S to SE by 3 pm, to ENE by 6 pm. Sustained winds 20 km/h or less, with gusts to 35 km/h, with gusts to 25 km/h after midday.
- Early morning minimum temperature 12-13 degrees, increasing to 21-22 degrees in the afternoon.
- Early morning maximum humidity near 90%, falling to 70% in the afternoon, then increasing to 90-95% by midnight.
- Slight chance of a shower, otherwise dry. Rainfall, if any, less than 2 mm.

Friday (midnight to midnight):

- E to NE before sunrise, becoming NE to NNE after sunrise at 10-25 km/h, gusts up to 35 km/h, highest gusts in the afternoon.
- Early morning minimum temperature 13-14 degrees, increasing to 21-22 degrees in the afternoon.
- Early morning maximum humidity near 95%, falling to 65% in the afternoon, then increasing to near 90% by midnight.
- Dry to mainly dry weather expected.

Outlook for Saturday:

- Winds N to NE, sustained 15-30 km/h.
- Maximum temperatures 22-23 degrees.
- Minimum relative humidity to 65-70%.
- Dry to mainly dry weather expected.

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Incident Action Plan



1. Approved by Incident Controller:

Name

Signed

Date/Time

Reade

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SITUATION REPORT

3. Location

South Western end Chatham Island

4. Vegetation

Taneora Scrub / peat /

5. NZTM Grid Ref.

6. Assessment

Vegetation in Tarahinau scrub fuels with areas of Peat, started on the 1st Feb and ran until rain stopped the spread of fire late on the night of the 2nd burning a total of around 2440ha destroying one structure and burning up to another, both near the southern coastal end of the fireground. No further fire spread was experienced during Saturday Sunday. On Monday 4th and Wednesday the 5th there were a few flare ups near the perimeter but crews and helicopters were able to contain these. Thermal flights on Wednesday- Thursday saw numerous small hot spots on or near the perimeter on Sierra and some larger hot areas in other sectors.

7. Action taken

Public was evacuated from Waitangi Wharf Owenga Road as a precaution on the evening of 2nd Feb, and were allowed back into the area the following day once rain moderated fire behaviour.

Local machinery has mulched fuel breaks in Sector Zulu/Sierra, for protection of structures.

Main focus of ground crews has been Sierra sector and northern Edge of Alpha.

Two medium helicopters carrying out bucket work and crew transport on the 4th Feb – reducing the number of visible smokers around the perimeter, focussing on the currently inaccessible areas along the cliff face in Zulu.

A local crew has done considerable mopping up around structures at the southern end of Zulu, and have been provided with some PPE, and communications so they can call for assistance in the event of an incident.

Partial National Incident Management Team from NZ arrived midday on the 3rd Feb to assist with incident management.

8. Factors

Access around fireground difficult due to risk of peat tomo's meaning access restricted to tracks with assistance of local guides.

Obtaining resources that are not available on the island will take 2-4 days to arrive.

Weather – See separate weather / fire behaviour predictions at back of IAP.

Thermal image camera monitoring has revealed a much higher number of hot areas than previously estimated. This has led to a revision of the objectives especially the completion time.

9. Predicted Incident Development

There is a high degree of confidence that further fire spread will be prevented and the objectives below will be achieved.