

Fire Investigation Report

Vegetation Fire



FINAL DOCUMENT V2- Published 19/03/2019

Fire Authority Name: Fire and Emergency New Zealand

Fire Name: Rabbit Island Fires, Nelson F2704786

Fire Date: 6th February 2019

Date of Investigation: 6th February to 19th March 2019

Report Completed By: Jamie Cowan
Wildfire Management NZ

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(Copies of my original notes are on file if required)

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PART 1: WILDFIRE INVESTIGATING OFFICER

Name James. P. Cowan

Qualifications

- Unit Standard 10615 Investigate Origin and Cause of Vegetation Fires
- Unit Standard 20392 Protect and Preserve a Fire Scene
- National Certificate 'Fire and Rescue Services' (Vegetation) L4 (2011)
- New Zealand Fire Service 'F1, Structure Fire Investigation Course' (2017)
- Canberra Institute of Technology PUA FIR501B, 'Conduct Fire Investigation and Analysis' (2017)

Significant Fires Investigated

- 7-Mile (2010)
- Closeburn Road (2011)
- Queenstown Hill (2011)
- Rob Roy Lane (2012)
- Mount Rosa (2012)
- The Stack Fire (2012)
- Matukituki Fire (2013)
- Northburn Fire (2014) *fatality*
- Waitaki Rail Fires (2015)
- Saddle Hill Fire (2015)
- Waitaki Island Fire (2016)
- Rat Point Fire (2017)
- Piha Fires (2017)
- Early Valley Fire, Port Hills (2017)
- Marley's Hill Fire, Port Hills (2017)
- Tiwai Fire (2018)
- Burnside, Dunedin (2018)
- Makara fire, Chatham Is (2018)
- Hawea Fire (2018)
- Pigeon Valley Fire- Nelson Complex (2019)
- Atawhai Fire- Nelson Complex (2019)
- Coal Valley Fire, Otago (2019)
- Orlig Station Fires, Otago (2019)

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PART 2: EXECUTIVE SUMMARY

Location	In the forestry block off the intersection of Cooper and Bird roads, Rabbit Island, Nelson. NZ (no rapid number or other address)
Date of Ignition	6 th February 2019
Time of Ignition	Around 14:30 (111 call at 14:36)
Area (ha)	Approximately 3 Ha
Ignition Area	Two separate ignitions, within 10m of waypoint 1611398E, 5431797N NZTM and waypoint 1611358E 5431894N NZTM.
Impact of Fire on Environment & Property	This fire destroyed/damaged around 3 hectares of pine forest.
Cause of Ignition	Based on the evidence available at the time of this investigation, the classification of this incident should be recorded as 'Incendiary'. These fires have most likely been deliberately lit. A person or persons has likely used a lighter, incendiary device or other sustained open flame to ignite the vegetation.
Party/Parties Responsible for Fire	No responsible party was identified at the time this report was published.

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PART 3: PROCESS OF INVESTIGATION

Introduction

The Rabbit Island fire started on the 6th of February and was managed as part of the Nelson Complex of fires including the large Pigeon Valley fire (5th February) and the smaller Atawhai fire (8th of February) and Moutere Hill fire (27th February)

The Rabbit Island fire was reported by multiple callers including planes landing at Nelson Airport. Many of the callers noted that it appeared to be 2 fires. Aircraft were responded from the nearby Pigeon Valley fire and were on site within 20 minutes of the first 111 call.

The fire advanced slowly under a mild north east wind into the surrounding forestry block and backed quickly into the grass and young pines back to the north east.

The spread was quickly contained despite the tinder dry conditions and mop up operations continued over the next 72 hours. The final extent was 3 hectares.

The Nelson/Tasman district was in a PROHIBITED Fire Season at the time of this fire. The fire danger on this day was HIGH

A state of Emergency was declared for the Nelson area on the 6th of February and expired on the 27th.

Process

05 February 2019

- At approximately 19:00 I was contacted by Manager Rural Fire, Tim Mitchell and asked if I could carry out a Fire investigation for the Pigeon Valley fire, I agreed and advised him that I would be onsite around 11:30 in the morning. Terms of reference were drafted.

06 February 2019

- 15:44, I was working on the Pigeon Valley Fire investigation when I was called by the Planning and Intelligence Manager located in the Command Unit at the Forward Control Point (FCP). He advised me of a new fire and requested that I attend to carry out a fire investigation.
 - Terms of reference were subsequently changed to include all fires managed under the Nelson Complex.
 - I arrived at the Forward Control Point (FCP) at 16:25 and was given a quick briefing by Air Attack Supervisor Mark Hodges. He gave me several photos that were taken between 14:45 and 14:51, around 15 minutes after the fire had started, these showed what appeared to be two separate fires. Given the high public/national interest and potential impact of these fires I was joined by Detective Neil Kitchen and Constable Micaela Rolton of the Nelson Police for an aerial survey of the site. We landed back at the FCP around 17:00 and then drove back to Rabbit Island.
 - 17:40, Detective Kitchen and I arrived back at the scene and began our scene examination, starting with the local car parks and possible access routes to the fires. We found multiple access tracks and two separate seats of fire. I noted ash all around the site that can only have come from the pigeon valley fire. We spoke to Division Commander Ashton Oliver and he advised us of a possible person of interest that had been seen in the area. We departed around 19:00
-

07 February 2019

- 07:30, I arrived on site and spoke to Division Commander Ashton Oliver, he gave me further details of a person of interest. I continued my scene examination from the previous evening. Waypoints were GPS'd, photos and weather readings taken, and the scene mapped. I departed around 08:30 and returned to Pigeon Valley.

17 February to 19th March 2019

- Phone calls to Detective Kitchen for updates and to discuss investigation
- Phone calls to the first caller to 111
- Phone calls to PRFO Ian Reade to update him on the investigation.
- Preparation of report. (28/02/19)
- Peer review and final publication

External Examination

06 and 07 February 2019

As detailed in the 'Process' above, the external examination started with an aerial overview flight, followed by a scene examination over two days. The following points were observed.

- Two separate fires were found
- Multiple vehicle, walking and cycling access tracks were found leading into the fire area.
- No items of interest were found in the car parks or General Origin Area.
- Freeze on foliage around the General Origin Area showed the wind direction at the time of the fire from the north east.
- Photos provided by Air Attack showed two separate fires.
- First caller to 111 saw what appeared to be two fires.
- Significant amounts of ash had been deposited on this fire site from the Pigeon Valley fire the previous night.

Internal Examination

07 February 2019

A search of the General Origin Area did not reveal any ignition source or any items of interest.

Fire pattern indicator vectors were observed, photographed and mapped to identify the Specific Origin Areas. With extensive aerial water bombing and firefighting suppression activities I was unable to identify a Point of Origin. (See Photo log for detail on observed fire pattern indicators)

Origin Area
General,
Specific, Area or
Point

The Specific Origin Areas were narrowed down to an area within 10m of waypoint 1611398E, 5431797N NZTM and waypoint 1611358E 5431894N NZTM.
(Photo log, FireMapper Image 8 and Photo 783)

Main fire runs The initial fire run was wind driven and ran to the southwest. The 10 to 20km/hr northeasterly wind pushing it into the forestry block. Significant backing fire was observed due to the 90 to 100% cured, 1m high rank grass and new pine plantings at the heel of the fire. The final extent shows this fire backed about the same as it advanced.
(Photo log, Image 1)

Spot fires No spot fires were observed from this fire. Given the possibility that this fire may have started due to ember transfer it is relevant to note that multiple spot fires were observed on the Pigeon Valley fire, of up to approximately 500m in distance.

Indicated cause From the site examinations, photos and witness reports, the following hypotheses were formed.

1. This fire had been deliberately lit.
2. This fire was caused by ember transfer from the Pigeon Valley Fire 9km to the south west.

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PART 4: FIRE SPREAD AND BEHAVIOUR

Weather Factors Daily observations from the Nelson weather station 8 km to the east of the fire at 14:30.

Temp	RH	Wind dir	Wind Speed	Rain last 24 hours	
21	50%	NE	17km/hr	0mm	
FFMC	DMC	DC	ISI	BUI	FWI
86 (adj)	76	450	6	107	24 HIGH

Given the shelter created by the trees the wind at ground level would have been less than the local weather station. For this reason, I have used 10km/hr in the fire behaviour calculations. This is supported by my weather readings taken on this site compared to the Nelson weather station.

How the above readings and indices relate to the potential fire cause hypotheses are as follows.

1. **Fire had been deliberately lit.** -The Fine Fuel Moisture Code (FFMC) and relative humidity (RH) at the time of ignition were conducive to an ignition of this type. A lighter, incendiary device or similar open flame would have been a competent ignition source.
2. **This fire had been caused by ember transfer from the Pigeon Valley fire 9km to the southwest** -The FFMC (Fine fuel moisture code) at the time of ignition was moderate at around 86, the RH (relative humidity) was moderate at 50%. These figures make it possible for an ember transfer ignition and would hinge on the size of the ember/firebrand. "A firebrand's lifetime depends on its initial size, which is determined by the vertical speed of wind induced by the fire" (*Tarifa et al. 1965a; Lee and Hellman 1969; Muraszew 1974; Muraszew et al. 1975; Muraszew and Fedele 1977; Albini 1979; Woycheese 1996; Koo et al. 2007*) The Pigeon Valley fire had stopped running to the northeast (direction in which the embers would have been driven from) at around 03:00, (11 hours before) the embers would have to have sat/smoldered in the surface fuels for 11 hours before the Rabbit Island fire was discovered. Not only is this highly unlikely, it would have had to have occurred twice 100 metres apart to have caused two separate ignitions. The overnight RH had recovered to 85%, this would have significantly dampened down any embers sitting on the surface and likely extinguished them. Maximum spotting distances are the subject of many scientific studies and several spotting calculators exist. Using BEHAVE PRO I calculated the maximum spotting distance to be around 1km. This calculator doesn't have an exact fuel model to match the fuels in the Pigeon Valley fire however it is indicative. Anecdotally from referencing, *A mathematical model for predicting the maximum potential spotting distance from a crown fire Albini, Alexander and Cruz 2011, and Albini 1979*, I concluded it would be extremely unlikely for a spot to travel more than 2km in the conditions that were present during the main run of the Pigeon Valley fire. (I.E Sustained wind not exceeding 25km/hr Dovedale RAWS)
Given the above it is highly unlikely that this fire was caused by ember transport.

Fuel Factors

The fuel in and around the Ignition Area was 90 to 100% cured ungrazed grass, weeds and pine slash/pine needle duff. These fuels are easily ignited.

How the fuel factors relate to the potential fire cause hypotheses are as follows;

1. **Fire had been deliberately lit.**- The 90 to 100% cured ungrazed grass, weeds, and pine slash/pine needle duff around the origin area would have been very easy to ignite with a lighter, incendiary device or other sustained open flame.
2. **This fire was caused by ember transfer from the Pigeon Valley fire 9km to the southwest** - The 90 to 100% cured ungrazed grass, weeds, and pine slash/pine needle duff layers would have formed a physical fuel bed conducive to an ignition of this type however, as stated above in the weather factors, an ember ignition or smoldering ignition would have had to be unnoticed for around 11 hours before obvious flaming ignition was seen. A fire in these fine dry fuels would have developed within minutes not hours. **Combined with the weather factors above, this hypothesis is no longer valid.**

Topographical Factors

The Origin Area is on a flat area just under the tree edge of mature pines. Topographical factors would not have significantly influenced this fires ignition potential or early spread.

Burn and Char Patterns/Pattern Indicators

As described and photographed in the external and internal examinations. Given the extensive aerial water bombing and suppression activities, fire pattern indicators were hard to accurately identify as I got closer to the Specific Origin Areas.

Fire Behaviour

Predominant fuels include 90 to 100% cured ungrazed grass, weeds, pine slash/pine needle duff layer and a mix of 10-year-old and mature pines. The first photos taken by Air Attack shows the advancing and backing distances to be about equal, the following fire behaviour calculations support the identification of the Specific Origin Areas. (Photo Log, Image 1)

Rates of spread for these fuels are as follows.

- **Ungrazed grass** at 1m high, 90% cured, wind of 10km/hr, temp 21, RH 50% - Forward Rate Of Spread (F-ROS) is calculated at 370m/hr (with flame length of 2.6m. Fuel load is around 11 t/ha and Head Fire Intensity (HFI) is 2,000kw/m. Back Rate of Spread- (B-ROS) is calculated at 73m/hr.
- **11 to 20 yr old pines**- F-ROS 74m/hr, 1.8m flame length resulting in a crown fire.
- **Mature Pines**- F-ROS 74m/hr, 1.9 m flame length resulting in a surface fire.

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**Witness Statements/
Observations Summary**
(the full witness statements are attached in appendix. N/A)

See Witness Identification Log Appendix 6 for personal contact details.

Given these fires suspicious nature, this investigation was handed over to the Police and all witnesses other than the first caller were not interviewed as part of this investigation

Witness 1- [REDACTED]

Witness 2- [REDACTED]

Conclusions- These witness statements support the location of the Specific Origin Areas and the existence of two separate seats of fire.

PART 5: VISUAL AND PHYSICAL EVIDENCE

Visual Images Photos and videos were taken by this investigator and members of the public. A sample of the more relevant photos are attached in the photo log- Appendix 3.

Physical Site Evidence No physical evidence was found.

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PART 6: ORIGIN AND CAUSE

Determination of the Specific Origin Area. Witness statements, photos and fire pattern indicators all lead back to a Specific Origin Area within 10m of waypoint 1611398E, 5431797N NZTM and waypoint 1611358E 5431894N NZTM. This area can be described as just inside the tree edge of the mature forestry.

Elimination/ explanation of possible causes

Causes that were eliminated or identified:

1. Power Lines – No power lines were present in the OA.
2. Lightning- No lightning was detected in the greater Nelson area between the 1st and 10th of February. (MetService)
3. Cigarettes - No cigarette remains, matches or other sources of open flame were found in the OA. Given the moderate FFMC and RH a cigarette ignition is highly unlikely.
4. Campfires – No evidence of campfires in the OA.
5. Debris/burning – No evidence of any burn offs in the OA.
6. Equipment Use – No evidence of motorbike or vehicle use in the OA.
7. Children – No evidence of children at play (fire play) was found in the OA. School had gone back earlier this week, the fire was in the middle of the day and the site was not easily accessible without a vehicle.
8. Miscellaneous causes- No evidence of any other ignition source or activities includes but not limited to, fireworks, cutting/welding/grinding, firearms and spontaneous combustion.
9. Incendiary/Arson- This area is easy to access and both fires were ignited just inside the tree edge where a person would have been hidden from view. The lack of any other possible ignition source indicates arson. The Atawhai fire was ignited at around 14:32, Moutere hill at 13:18, and this fire at 14:36, all similar times of the day but on different days, this may be coincidental or possible a copycat activity by an arsonist/s. There were two separate seats of fire, this is a common indicator of arson where no other cause can be identified.
10. Ember transfer- Given the distance from the pigeon valley fire, (approx. 9km) the weather conditions at the time of the fire, (sustained wind speed less than 25km/hr) the overnight relative humidity recovery to 86% and the time from the ash accumulation on the Rabbit Island site to the ignition, (approx. 11 hours) it is my conclusion that this fire was not caused by ember transfer.

Cause or most likely cause of fire

Given the evidence available and identified as part of this investigation it is my conclusion that:

These fires have most likely been deliberately lit. A person or persons has likely used a lighter, incendiary device or other sustained open flame to ignite the vegetation. As such this fire should be classified as 'Incendiary'.

Conclusions

To completely prove a fire's cause, we need to identify the first fuel ignited, the heat source and the event that brought them together. For this fire we know what the first fuels are, we know there were no possible heat sources permanently on site and found no evidence of an introduced heat source, thus we were unable to categorically define the event that would have brought them together.

We do know however that there must have been a heat source, it wasn't permanently on site and it left little or no evidence that was found by this investigation. We also know that the event that introduced the heat source to the fuels also left little or no evidence that was found.

What are we left with? The only plausible explanation is that someone deliberately lit the fire and left the scene. Arsons typically exhibit the following:

- Are often set in multiples,
- May occur on the same day,
- Typically occur in close proximity to each other,
- Sites are easily accessed by roads or trails,
- Roadside fire sets are the most common
- Fires that have no evidence of an ignition source

(Guide to Wildland Fire Origin and Cause Determination, National Wildfire Coordinating Group 2016)

All the above are relevant to this fire. (acknowledging that it was within 200m of a road)

Adding to this picture are the suspicious Atawhai fire two days later (8th Feb) and the Moutere fire on the 27th of February.

Having considered a range hypothesis for what may have caused these fires, all have been eliminated except for the fires being deliberately lit.

Recommendations

That Police continue the investigation into the cause of these fires as it's probable to have been deliberately lit and as such the statutory responsibility for the investigation would lie with the police.

Investigation and report completed by:**Name**

Fire Investigator- Jamie Cowan
Wildfire Management Specialist/Wildfire Investigator L2
Wildfire Management NZ.

Phone [REDACTED]

Appendix 1 MAPS. Overview Map

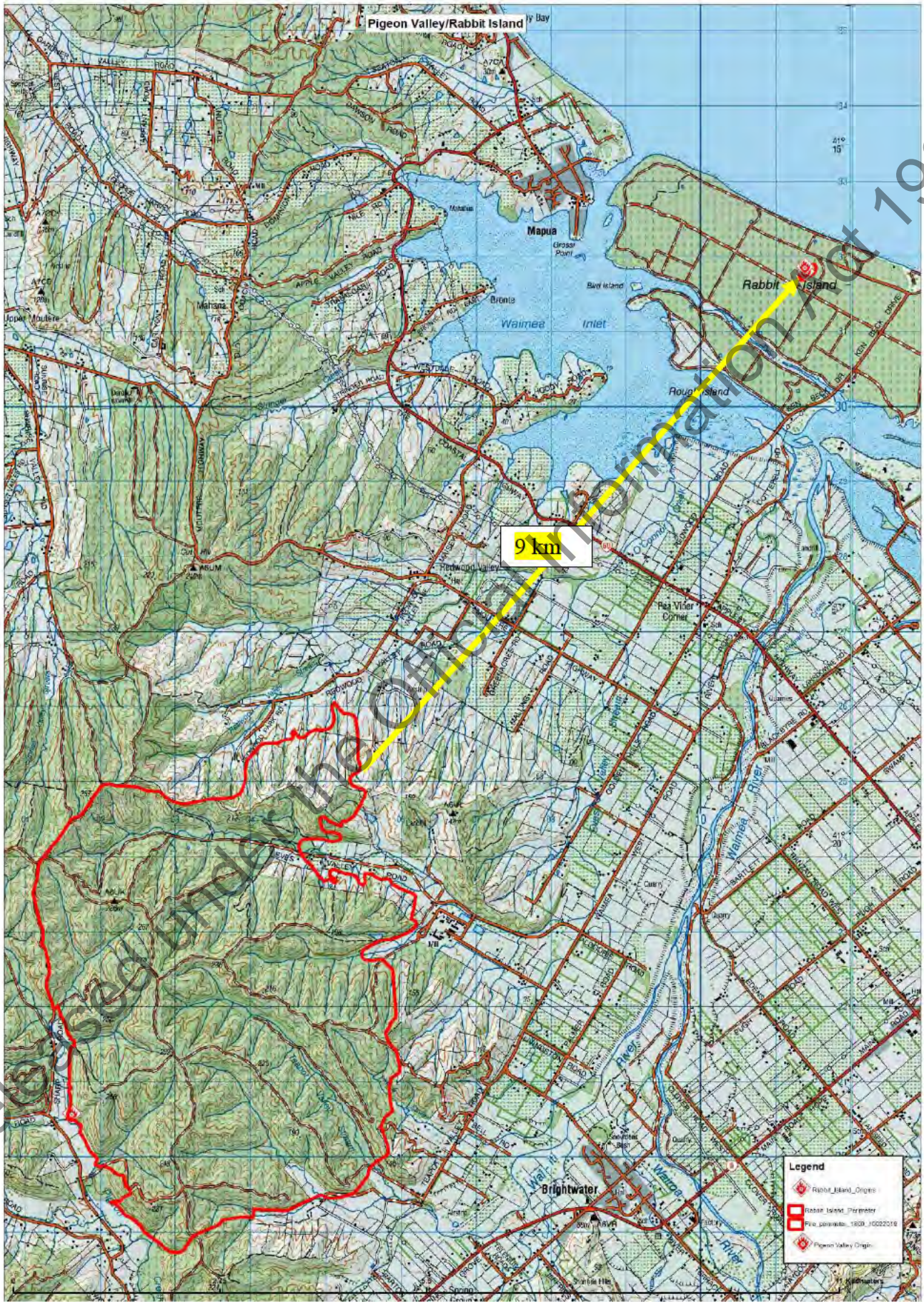


Rabbit Island Fire Aerial Map

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Rabbit Island/Pigeon Valley distance Map



Appendix 2 Fire Weather

Nelson-Marlborough				Wednesday, 06 February 2019													
STATION NAME	FOREST	SCRUB	GRASS	FFMC	DMC	DC	ISI	BUI	FWI	TEMP	RH	DIR	WSP	RN24	GC%	STAT	
Takaka Aerodrome	H	E	M	86	66	362	6.2	90	21.5	17.9	72	048	19	0.0	65	Aut	
Kerepuru Head	M	E	M	84	55	327	3.7	77	13.4	14.6	77	249	13	0.4	65	Aut	
Big Pokororo Z	H	E	M	85	94	392	3.7	118	16.8	17.2	77	060	11	0.0	70	Aut	
Rai Valley	V	E	H	87	63	333	7.8	85	24.5	17.0	64	070	21	0.0	65	Aut	
Hira	H	E	M	87	79	432	4.0	109	17.1	17.1	63	128	6	0.0	70	Aut	
Nelson	H	E	H	88	76	451	5.2	107	20.8	21.6	61	338	10	0.0	70	Aut	
Dovedale	M	E	M	84	96	457	2.9	126	14.4	16.7	81	013	10	0.6	70	Aut	

Time	Nelson Raws; Observed precipitation amount (mm)	OB Air TEMP (°C)	OB Screen RH	OB WDIR (°T)	OB WSP (km/h)
06-Feb-2019 13:00	0.0	21.6	61	338	10.1
06-Feb-2019 13:10	0.0	21.7	55	104	10.1
06-Feb-2019 13:20	0.0	22.1	51	123	17.3
06-Feb-2019 13:30	0.0	21.6	51	099	15.1
06-Feb-2019 13:40	0.0	21.6	50	077	15.5
06-Feb-2019 13:50	0.0	21.5	51	089	20.2
06-Feb-2019 14:00	0.0	21.9	50	083	19.4
06-Feb-2019 14:10	0.0	21.9	49	082	18.0
06-Feb-2019 14:20	0.0	21.3	50	088	19.8
06-Feb-2019 14:30	0.0	21.4	50	085	17.3
06-Feb-2019 14:40	0.0	23.3	46	096	15.1
06-Feb-2019 14:50	0.0	23.6	46	101	20.2
06-Feb-2019 15:00	0.0	23.9	45	110	20.2
06-Feb-2019 15:10	0.0	22.8	47	090	22.3
06-Feb-2019 15:20	0.0	23.7	45	091	23.0
06-Feb-2019 15:30	0.0	22.8	47	095	24.8
06-Feb-2019 15:40	0.0	21.8	49	092	26.3
06-Feb-2019 15:50	0.0	21.8	49	101	23.4
06-Feb-2019 16:00	0.0	21.3	50	092	22.0

Photo 782 – Fire signage, extent of trails and access points on Rabbit Island.

Photo 1 – Fire locations at 14:51 (approx. 20 minutes after ignition) . Wind from the north east. (flame just visible in Origin 2)

Image 1 (Taken from video) – Fire locations post extinguishment. NB. Origin 2 never got up into the canopy due to a different age class of trees, but did back out into the grass at the very edge of the trees.

FireMapper image 8- Approximate Origin Area of Ignition 1. Fire backed upslope against the wind out into the grass.

FireMapper image 9 and 12 - Left and Right lateral fire pattern indicators.

Photo 783 – Origin 2. Fire was unable to climb into the canopy like Origin 1 due to lack of ladder fuel. This fire was very slow due to limited fuel and mainly backed upslope into the wind.

Photo 789 – Origin 2, backing indicator with fuels remaining on the surface where the fire backed out into the grass to the NE

FireMapper- Shows the electronic flagging of fire pattern indicators and photo points.

Photo 785 – Ash from the Pigeon Valley fire on windscreen of a car left parked on Rabbit Island. Ash was found around the Origin Area.

Photo 788 – Freeze at Origin 2 showing wind direction from the north east

Photo 782 – Fire signage, extent of trails and access points on Rabbit Island.



**Photo 1 – Fire locations at 14:51 (approx. 20 minutes after ignition).
Wind from the north east. (flame just visible in Origin 2)**



Image 1 (Taken from video) – Fire locations post extinguishment. NB. Origin 2 never got up into the canopy due to a different age class of trees, but did back out into the grass at the very edge of the trees.



NORTH

Origin 1

Origin 2

Fire direction indicators.
- Advancing 
- Flanking 
- Backing 

**FireMapper image 8- Approximate Origin Area of Ignition 1.
Fire backed upslope against the wind out into the grass.**



Point Marked: 7/02/2019 8:11:22 AM
LATITUDE: -41° 15.914'
LONGITUDE: 173° 8.1656'
UTM ZONE: 59G
EASTING: 678 932

FireMapper image 9 and 12 - Left and Right lateral fire pattern indicators.



Point Marked: 7/02/2019 8:14:19 AM
LATITUDE: -41° 15.918'
LONGITUDE: 173° 8.1752'
UTM ZONE: 59G
EASTING: 678 945



Point Marked: 7/02/2019 8:23:34 AM
LATITUDE: -41° 15.894'
LONGITUDE: 173° 8.1648'
UTM ZONE: 59G
EASTING: 678 931

Photo 783 – Origin 2. Fire was unable to climb into the canopy like Origin 1 due to lack of ladder fuel. This fire was very slow due to limited fuel and mainly backed upslope into the wind.



Photo 789 – Origin 2, backing indicator with fuels remaining on the surface where the fire backed out into the grass to the NE



FireMapper- Shows the electronic flagging of fire pattern indicators and photo points.



Photo 785 – Ash from the Pigeon Valley fire on windscreen of a car left parked on Rabbit Island. Ash was found around the Origin Area.



Photo 788 – Freeze at Origin 2 showing wind direction from the north east



Appendix 4 ICAD Report

SMS Incident Report

11/02/2019 14:34:36

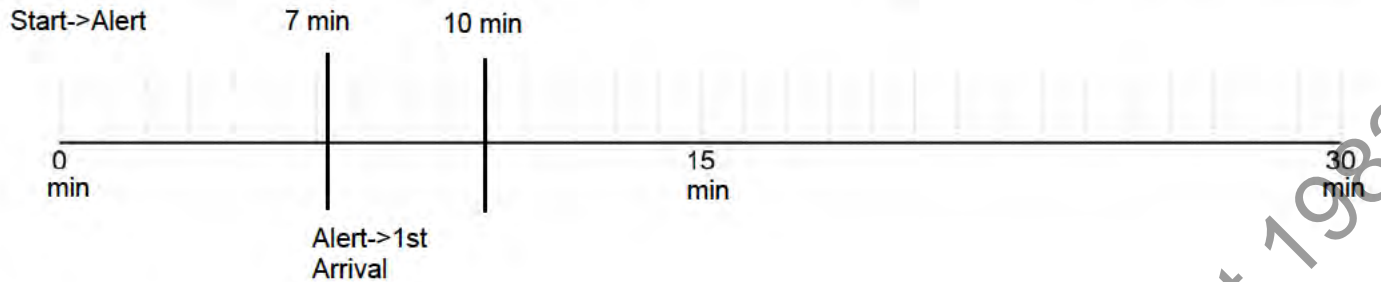
Summary

CAD Number	F2704786	Status	New
Station	Richmond Volunteer Fire Brigade		
Incident Started	06/02/2019 14:36:48	Incident Ended	09/02/2019 07:06:11
Incident Type	1300:		
Common Name			
Address	/ COOPER ROAD RABBIT ISLAND		
Alarm Method	111 Telephone	Alarm Level	1
PFA Number			
Zone	323316		
Map Grid E	1611755	Map Grid N	5431930
First Caller	[REDACTED]	First Caller Contact	[REDACTED]
Incident Closed	09/02/2019 07:06:11		
Report Completed			

Responses

Call Sign	Type	Station Alert	Enroute Time	Arrival Time	Departed
RICH337	PR	14:38:46 06 Feb 2019	14:40:29 06 Feb 2019	14:49:55 06 Feb 2019	17:03:14 06 Feb 2019
BRIG5075	RWT	14:45:32 06 Feb 2019	14:45:33 06 Feb 2019	15:00:38 06 Feb 2019	08:26:06 07 Feb 2019
NELS214	PM	14:43:34 06 Feb 2019	14:43:35 06 Feb 2019	15:01:28 06 Feb 2019	19:11:44 06 Feb 2019
NELS2110	RU	14:51:29 06 Feb 2019	14:51:30 06 Feb 2019	15:13:28 06 Feb 2019	18:47:19 06 Feb 2019
NELS2111	WT	14:47:59 06 Feb 2019	14:52:10 06 Feb 2019	15:17:11 06 Feb 2019	18:01:32 06 Feb 2019
VSOTASMAL2	VSO	15:23:03 06 Feb 2019	15:23:04 06 Feb 2019	15:28:13 06 Feb 2019	16:15:28 06 Feb 2019
MARA5925	SC	20:08:09 06 Feb 2019	20:08:10 06 Feb 2019	20:26:13 06 Feb 2019	07:39:14 07 Feb 2019
HURU0925	SC	08:28:11 07 Feb 2019	08:28:12 07 Feb 2019	08:28:13 07 Feb 2019	19:15:32 07 Feb 2019
MOTU361	P1	10:06:04 07 Feb 2019	10:06:05 07 Feb 2019	10:38:32 07 Feb 2019	17:01:35 07 Feb 2019
RFONELTAS2	RFO	14:40:39 06 Feb 2019			16:55:50 06 Feb 2019
MAPU3111	WT	14:38:43 06 Feb 2019			00:26:15 07 Feb 2019

EVENTSCC1	OT			07:05:25 09 Feb 2019
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Elapsed Times

Call Sign	Start To Alert	Alert To Arrival	Start To Arrival	Start To Departed
RICH337	00:01:58	00:11:09	00:13:07	02:26:26
BRIG5075	00:08:44	00:15:06	00:23:50	17:49:18
NELS214	00:06:46	00:17:54	00:24:40	04:34:56
NELS2110	00:14:41	00:21:59	00:36:40	04:10:31
NELS2111	00:11:11	00:29:12	00:40:23	03:24:44
VSOTASMAL2	00:46:15	00:05:10	00:51:25	01:38:40
MARA5925	05:31:21	00:18:04	05:49:25	17:02:26
HURU0925	17:51:23	00:00:02	17:51:25	28:38:44
MOTU361	19:29:16	00:32:28	20:01:44	26:24:47
RFONELTAS2	00:03:51			02:19:02
MAPU3111	00:01:55			09:49:27
EVENTSCC1				64:28:37

Notifications

Date	Time	Party Notified
06 Feb 2019	14:48:48	AREA TASMAN/MARLBOROUGH PAGED RE NELS2111
06 Feb 2019	14:53:47	AREA TASMAN/MARLBOROUGH (MARK BOERE) ACK PAGE
06 Feb 2019	14:57:30	RFO ROBBIE @LOOK OUT - DELA
06 Feb 2019	14:57:54	POLICE VIA INTERCAD
06 Feb 2019	14:59:18	RFO ROBBIE @ THE LOOKOUT - DELAYED ENTRY - RANG TO REPORT SMOKE SHORTLY AFTE
06 Feb 2019	15:28:17	RFO NELSON/TASMAN PAGED SITREP
07 Feb 2019	16:15:59	CFO MOTUEKA RANG IN WELFARE CHECK FOR MOTU361 (EXTERNAL ALARM ACTIVATED) FOR

Message Log

Time	Message
14:38:21	INC INFO: INVESTIGATE SMOKE SHOWING MIDDLE OF RABBIT ISLAND
14:38:21	** LOI search completed at 06/02/19 14:38:21

14:38:37 ** Recommended unit MAPU3111 for requirement TANKER (>3.5 km)
** Recommended un

14:38:37 it RICH337 for requirement PUMP (>8.5 km)

14:38:39 Station Selcal used to Initiate Alerting. (██████████)

14:38:40 Station Selcal used to Initiate Alerting (██████████)

14:38:43 ALERTING_COMPLETED

14:38:46 ALERTING_COMPLETED

14:39:05 AL: PAGING ACK RECEIVED FROM STATION 3231 at 06/02/19 14:39:05

14:39:10 End of Duplicate Event data

14:39:10 Multiple subscribers for caller number ██████████. TESA lookup recommended.

14:39:10 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:39:10 ype = MIN - MINOR, Caller Name = ██████████ Caller Ph Number = ██████████

14:39:10 ██████████, Caller Address = TELECOM CELLULAR 027, KAIPARA FLATS, AUCKLAND CITY,
Ca

14:39:10 Il Source = 111Inc InfoSMOKE SEEN NEAR CENTRE OF ISLAND, Event Source = Fire 111

14:39:11 INC INFO: SMOKE SEEN NEAR CENTRE OF ISLAND

14:40:11 End of Duplicate Event data

14:40:11 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:40:11 ype = VEG - VEGETATION FIRE, Caller Name = ██████████, Caller Ph Number = ██████████

14:40:11 ██████████, Caller Address = 129 LNP FICT,, Call Source = 111Inc InfoLARGE AMOUNT

14:40:11 OF SMOKE SHOWING , Event Source = Fire 111

14:40:12 INC INFO: LARGE AMOUNT OF SMOKE SHOWING

14:40:17 ** Event Type changed from MIN to VEG at: 06/02/19 14:40:17

14:40:24 ** Recommended unit RFONELTAS2 for requirement RFO (>8.5 km)

14:40:29 Unit RICH337 [K1 - PROCEEDING TO INCIDENT]

14:40:29 KCODE [K1 - PROCEEDING TO INCIDENT]

14:40:31 Pager used to Initiate Alerting.

14:40:39 ALERTING_COMPLETED

14:40:51 Duplicate Event: NULL TASMAN DISTRICT : @RABBIT ISLANDCross Street 1BIRD
RDCross

14:40:51 Street 2WASTNEY RD, Type = VEG VEGETATION FIRE, Caller Name = ██████████
██████████

14:40:51 ██████████, Caller Ph Number = 1██████████ Caller Address = ██████████

14:40:51 ██████████ TRENT DRIVE, NELSON AIRPORT, NELSON CITY, Call Source = 111Alarm Level1Inc Inf

14:40:51 o2 FIRE SEEN BY A LANDING PLANE, Event Source = Fire 111

14:40:52 PLANE HAS SEEN A FIRE ON THE WESTERN END OF THE ISLAND...5NM WEST OF THE
CAR PAR

14:40:52 ** LOI search completed at 06/02/19 14:40:26

14:40:52 PLANE HAS TAKEN A CLOSER LOOK..CONFIRMED FIRE IN SCRUB AND IN A PINE
PLANTATION

14:40:52 End of Duplicate Event data

14:40:52 K ON THE ISLAND

14:40:53 ** Cross Referenced to Event # F2704791 at: 06/02/19 14:40:53

14:40:54 Duplicate Event: KEN BECK DR TASMAN DISTRICT Cross Street 1 FAULLKNER RDCross
Stre

14:40:54 et 2 HIGGINS RD, Type = VEG VEGETATION FIRE, Caller Name = [REDACTED]
[REDACTED]

14:40:54 [REDACTED], Caller Ph Number = 1 [REDACTED], Caller Address = BOLT ROAD, ANNESBROOK,
NE

14:40:54 LSON CITY, Call Source = 111 Alarm Level 1 Inc Info VEG FIRE, Event Source = North A

14:40:54 dmin A

14:40:55 INC INFO: VEG FIRE

14:40:55 ** LOI search completed at 06/02/19 14:39:47

14:40:55 NEAR THE MAIN ACCESS DRIVE, ON THE LE

14:40:55 End of Duplicate Event data

14:40:55 ** Cross Referenced to Event # F2704789 at: 06/02/19 14:40:55

14:41:07 Duplicate Event: Location = NULL, RABBIT ISLAND, TASMAN DISTRICT: @RABBIT ISLAND,
T

14:41:07 End of Duplicate Event data

14:41:07 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]

14:41:07 , Caller Address = REDWOOD VALLEY, Call Source = 111 Inc Info SMOKE SEEN, Event So

14:41:07 urce = Fire 111

14:41:08 INC INFO: SMOKE SEEN

14:41:11 Duplicate Event: KEN BECK DR TASMAN DISTRICT Cross Street 1 COOPER RDCross Street
2 BULLIVANT RD WEST, Type = MIN MINOR, Caller Name = [REDACTED], Caller
Ph

14:41:11 Number = [REDACTED], Caller Address = TELECOM CELLULAR 027,, Call Source = 111

14:41:11 Alarm Level 1 Inc Info LARGE SMOKE IN AREA, Event Source = Fire 111

14:41:12 ** LOI search completed at 06/02/19 14:40:32

14:41:12 ** Cross Referenced to Event # F2704792 at: 06/02/19 14:41:12

14:41:12 End of Duplicate Event data

14:41:12 INC INFO: LARGE SMOKE IN AREA

14:41:13 Duplicate Event: KEN BECK DR TASMAN DISTRICT Cross Street 1 COOPER RDCross Street
2 BULLIVANT RD WEST, Type = VEG VEGETATION FIRE, Caller Name =

14:41:13 [REDACTED], C

14:41:13 aller Ph Number = [REDACTED], Caller Address = TELECOM CELLULAR 027, SAINT ANDRE

14:41:13 WS, WAIMATE DISTRICT, Call Source = 111 Alarm Level 1 Inc Info SMOKE SHOWING AT
RABB

14:41:13 IT ISLAND, Event Source = Fire 111

14:41:14 ** Cross Referenced to Event # F2704793 at: 06/02/19 14:41:14

14:41:14 End of Duplicate Event data

14:41:14 CALLER AT MAHANA LOOKING ACROSS

14:41:14 INC INFO: SMOKE SHOWING AT RABBIT ISLAND

14:41:14 ** LOI search completed at 06/02/19 14:40:35

14:41:15 //BROWN//

14:41:17 .

14:41:21 //GREEN//

14:41:22 APPROX 400M UP

14:41:33 KEN BECK RD FROM BEACH

14:41:45 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:41:45 End of Duplicate Event data

14:41:45 Multiple subscribers for caller number [REDACTED]. TESA lookup recommended.

14:41:45 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]

14:41:45 [REDACTED], Caller Address = [REDACTED] WESTDALE ROAD, REDWOOD VALLEY, TASMAN
DISTRICT, Ca

14:41:45 Il Source = 111Inc InfoVEG FIRE, Event Source = Fire 111

14:41:46 INC INFO: VEG FIRE

14:41:47 .

14:41:54 NEAR CONNIFER PARK

14:42:20 End of Duplicate Event data

14:42:20 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:42:20 ype = MIN - MINOR, Caller Name = [REDACTED], Caller Ph Number = [REDACTED], C

14:42:20 aller Address = 111 THE RIDGEWAY, STOKE, NELSON CITY, Call Source = 111Inc InfoF

14:42:20 LAMES SHOWING, Event Source = Fire 111

14:42:21 INC INFO: FLAMES SHOWING

14:42:22 End of Duplicate Event data

14:42:22 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:42:22 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED]
[REDACTED], Ca

14:42:22 ller Ph Number = [REDACTED], Caller Address = TELECOM CELLULAR 027, BLENHEIM, M

14:42:22 ARLBOROUGH DISTRICT, Call Source = 111Inc Info2 POINTS OF SMOKE IN RABBIT
ISLAND

14:42:22 , Event Source = Fire 111

14:42:23 INC INFO: 2 POINTS OF SMOKE IN RABBIT ISLAND

14:42:24 End of Duplicate Event data

14:42:24 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:42:24 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111In

14:42:24 c InfoVEG FIRE, Event Source = Fire 111

14:42:25 INC INFO: VEG FIRE

14:42:31 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:42:31 End of Duplicate Event data

14:42:31 ype = MIN - MINOR, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]

14:42:31 [REDACTED], Caller Address = [REDACTED] DRY HILLS RISE, RIVERLANDS, MARLBOROUGH DISTRICT,
Call

14:42:31 Source = 111Inc InfoSMOKE SEEN NEAR CONNIFER PARK, Event Source = Fire 111

14:42:32 INC INFO: SMOKE SEEN NEAR CONNIFER PARK
14:42:41 CALLER HAS [REDACTED] BINOCULARS AND CAN SEE FLAMES
14:43:05 End of Duplicate Event data
14:43:05 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:43:05 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111In
14:43:05 c InfoSMOKE SHOWING , Event Source = Fire 111
14:43:06 INC INFO: SMOKE SHOWING
14:43:35 Unit NELS214 [K1 : PROCEEDING TO INCIDENT]
14:43:35 kcode [K1 : PROCEEDING TO INCIDENT]
14:43:45 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:43:45 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]
14:43:45 [REDACTED], Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc InfoVEG FI
14:43:45 RE, Event Source = Fire 111
14:43:46 End of Duplicate Event data
14:43:47 INC INFO: VEG FIRE
14:43:58 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:43:58 AL: PAGING ACK TIMED OUT FOR STATION: 3233 at 06/02/19 14:43:58
14:43:58 End of Duplicate Event data
14:43:58 ype = MIN - MINOR, Caller Name = [REDACTED], Caller Ph Number =
[REDACTED]
14:43:58 , Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc InfoSMOKE SEEN, E
14:43:58 vent Source = Fire 111
14:43:59 INC INFO: SMOKE SEEN
14:44:22 End of Duplicate Event data
14:44:22 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:44:22 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph
Number
14:44:22 = [REDACTED], Caller Address = [REDACTED] VALHALLA CLOSE, RICHMOND, TASMAN DISTRICT,
Cal
14:44:22 l Source = 111Inc InfoSMOKE SHOWING FROM TREES , Event Source = Fire 111
14:44:23 INC INFO: SMOKE SHOWING FROM TREES
14:44:30 Unit MAPU3111 [SITREP :] NO AVAILABLE CREW
14:44:39 ** Requirement TORT added for alarm level 1
14:44:47 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:44:47 End of Duplicate Event data
14:44:47 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111In
14:44:47 c InfoFIRE, Event Source = Fire 111
14:44:48 INC INFO: FIRE
14:44:53 .

14:45:01 SOUTHERN END OF FORESTRY

14:45:02 Unit NELS214 [KP : PRIORITY MESSAGE]

14:45:26 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:45:26 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 1111

14:45:26 nc InfoSMOKE SHOWING FROM TREES., Event Source = Fire 111

14:45:27 End of Duplicate Event data

14:45:27 INC INFO: SMOKE SHOWING FROM TREES.

14:45:33 Unit BRIG5075 [K1 : PROCEEDING TO INCIDENT]

14:45:33 KCODE [K1 : PROCEEDING TO INCIDENT]

14:45:37 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
C

14:45:37 End of Duplicate Event data

14:45:37 aller Name = [REDACTED], Caller Ph Number = [REDACTED], Caller Address

14:45:37 = TELECOM CELLULAR 027, OAMARU, WAITAKI DISTRICT, Call Source = 111, Event
Sourc

14:45:37 e = Fire 111

14:45:38 INC INFO:

14:45:39 End of Duplicate Event data

14:45:39 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:45:39 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =
[REDACTED]

14:45:39 [REDACTED], Caller Address = [REDACTED] ELLIS STREET, BRIGHTWATER, TASMAN DISTRICT, Call

14:45:39 Source = 111Inc InfoSMOKE SEEN, Event Source = Fire 111

14:45:40 INC INFO: SMOKE SEEN

14:45:42 End of Duplicate Event data

14:45:42 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:45:42 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 1111

14:45:42 nc InfoVEG FIRE, Event Source = Fire 111

14:45:43 INC INFO: VEG FIRE

14:45:49 Unit NELS214 [KP : PRIORITY MESSAGE] LARGE SMOIKE COLUMN FROM CENTRE OF
ISLAND

14:46:00 INC INFO:

14:46:00 End of Duplicate Event data

14:46:00 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
C

14:46:00 aller Name = TELECOM/PREPAID, Caller Ph Number = [REDACTED], Caller Address = T

14:46:00 ELECOM CELLULAR 027., Call Source = 111, Event Source = Fire 111

14:46:02 Unit NELS214 [KP : PRIORITY MESSAGE]

14:46:25 Unit NELS214 [KP : PRIORITY MESSAGE] MAKE TANKERS 2 LARGE FIRE IN MIDDLE OF
ISL

14:46:25 AND

14:46:42 Duplicate Event:Location = BULLIVANT RD WEST,RABBIT ISLAND,TASMAN DISTRICT,
Type

14:46:42 End of Duplicate Event data

14:46:42 = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc I
nfoLARGE FIRE SPREDDING, Event Source = Fire 111

14:46:43 INC INFO: LARGE FIRE SPREDDING

14:47:28 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:47:28 End of Duplicate Event data

14:47:28 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111In
c InfoSMOKE SHOWING , Event Source = Fire 111

14:47:29 ** Event Location changed from [REDACTED] KEN BECK DR,RABBIT ISLAND,TASMAN DISTRICT" to

14:47:29 INC INFO: SMOKE IN VICINITY

14:47:29 ** LOI search completed at 06/02/19 14:46:10

14:47:29 Duplicate Event: BULLIVANT RD WEST TASMAN DISTRICTCross Street 1BIRD RDCross
Str

14:47:29 INC INFO: SMOKE SHOWING

14:47:29 ** LOI search completed at 06/02/19 14:46:24

14:47:29 eet 2WASTNEY RD, Type = VEG VEGETATION FIRE, Caller Name = [REDACTED], Caller
P

14:47:29 "BULLIVANT RD WEST,RABBIT ISLAND,TASMAN DISTRICT" at: 06/02/19 14:46:24

14:47:29 h Number = [REDACTED], Caller Address = [REDACTED] KEN BECK RD, Call Source = 111Alarm L
evel1Inc InfoSMOKE IN VICINITY, Event Source = Fire 111

14:47:29 CALLER LOOKING NORTH FROM

14:47:30 End of Duplicate Event data

14:47:30 ** Cross Referenced to Event # F2704798 at: 06/02/19 14:47:30

14:47:31 Duplicate Event: NULL TASMAN DISTRICT : @RABBIT ISLANDCross Street 1BIRD
RDCross

14:47:31 Street 2WASTNEY RD, Type = VEG VEGETATION FIRE, Caller Name =
[REDACTED]

14:47:31 [REDACTED] Caller Ph Number = [REDACTED], Caller Address = TELECOM CELLULAR 027, SOU
TH DUNEDIN, DUNEDIN CITY, Call Source = 111Alarm Level1Inc InfoVEG FIRE, Event S
ource = Fire 111

14:47:31 ** Cross Referenced to Event # F2704800 at: 06/02/19 14:47:32

14:47:32 End of Duplicate Event data

14:47:32 INC INFO: VEG FIRE

14:47:32 ** LOI search completed at 06/02/19 14:47:08

14:47:34 INC INFO:

14:47:34 End of Duplicate Event data

14:47:34 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
C

14:47:34 aller Ph Number = [REDACTED] Call Source = 111, Event Source = Fire 111

14:47:54 Duplicate Event:Location = BULLIVANT RD WEST,RABBIT ISLAND,TASMAN DISTRICT,
Type

14:47:54 Multiple subscribers for caller number [REDACTED]. TESA lookup recommended.

14:47:54 End of Duplicate Event data

14:47:54 = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]

14:47:54 [REDACTED] Caller Address = TELECOM CELLULAR 027, SOUTH DUNEDIN, DUNEDIN CITY, Call Sou

14:47:54 rce = 111Inc InfoFIRE ON RABBIT ISLAND SEEN FROM AS DISTANCE, Event Source = Fir

14:47:54 e 111

14:47:55 INC INFO: FIRE ON RABBIT ISLAND SEEN FROM AS DISTANCE

14:47:56 PA Selcal used to Initiate Alerting. ([REDACTED])

14:47:58 INC INFO: FIRE IN THE BUSH

14:47:58 End of Duplicate Event data

14:47:58 Duplicate Event:Location = BULLIVANT RD WEST,RABBIT ISLAND,TASMAN DISTRICT, Type

14:47:58 = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]

14:47:58 [REDACTED], Caller Address = TELECOM CELLULAR 027, OAMARU, WAITAKI DISTRICT, Call

14:47:58 Source = 111Inc InfoFIRE IN THE BUSH, Event Source = Fire 111

14:47:59 ALERTING_COMPLETED

14:48:28 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND, T

14:48:28 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED]

14:48:28 [REDACTED], Caller Ph Number = [REDACTED], Caller Address = TELECOM CELLULAR 027, KAIPAR

14:48:28 A FLATS, AUCKLAND CITY, Call Source = 111Inc InfoSMOKE SEEN , Event Source = Fir

14:48:28 e 111

14:48:29 INC INFO: SMOKE SEEN

14:48:29 End of Duplicate Event data

14:48:40 End of Duplicate Event data

14:48:40 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND, T

14:48:40 ype = MIN - MINOR, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSMOKE

14:48:40 SHOWING, Event Source = Fire 111

14:48:41 INC INFO: SMOKE SHOWING

14:48:42 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND, T

14:48:42 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Num

14:48:42 ber = [REDACTED], Caller Address = TELECOM CELLULAR 027, PAKURANGA, AUCKLAND CIT

14:48:42 Y, Call Source = 111Inc InfoTREES ON FIRE , Event Source = Fire 111

14:48:43 End of Duplicate Event data

14:48:44 INC INFO: TREES ON FIRE

14:48:53 End of Duplicate Event data

14:48:53 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND, C

14:48:53 aller Ph Number = [REDACTED], Call Source = 111, Event Source = Fire 111

14:48:54 INC INFO:
14:48:55 Unit RICH337 [KC : UNIT CALLING]
14:49:26 Unit RICH337 [SITREP :] PERMISSION TO SPEAK TO 214
14:49:55 KCODE [K66 : NON PROPERTY FIRE]
14:49:56 Unit RICH337 [K66 : NON PROPERTY FIRE]
14:50:14 //GREEN//
14:51:30 Unit NELS2110 [K1 : PROCEEDING TO INCIDENT]
14:51:30 KCODE [K1 : PROCEEDING TO INCIDENT]
14:51:47 *
14:52:10 KCODE [K1 : PROCEEDING TO INCIDENT]
14:52:10 Unit NELS2111 [K1 : PROCEEDING TO INCIDENT]
14:52:13 STOKE SAYS THEY WILL HAVE A CREW SHORTLY IF THEY ARE REQUIRED FOR THIS
EVENT
14:52:15 *
14:53:29 Unit RICH337 [KC : UNIT CALLING]
14:53:41 End of Duplicate Event data
14:53:41 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:53:41 ype = VEG - VEGETATION FIRE, Caller Name = ██████████
14:53:41 ██████████, Caller Ph Number = ██████████, Caller Address = 23 LNP FICT,, Call Sour
14:53:41 ce = 111Inc InfoSMOKE SEEN, Event Source = Fire 111
14:53:42 INC INFO: SMOKE SEEN
14:54:13 End of Duplicate Event data
14:54:13 Multiple subscribers for caller number ██████████. TESA lookup recommended.
14:54:13 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:54:13 ype = VEG - VEGETATION FIRE, Caller Name = ██████████, Caller Ph Number = ██████████
14:54:13 ██████████, Caller Address = ██████████ KIHILLA ROAD, RICHMOND, TASMAN DISTRICT, Call Sour
14:54:13 ce = 111Inc InfoVEG FIRE, Event Source = Fire 111
14:54:14 INC INFO: VEG FIRE
14:54:16 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
14:54:16 ype = VEG - VEGETATION FIRE, Caller Name = ██████████, Caller Ph
14:54:16 Number = ██████████, Caller Address = TELECOM CELLULAR 027, SOUTH DUNEDIN,
DUNE
14:54:16 DIN CITY, Call Source = 111Inc InfoFIRE SEEN , Event Source = Fire 111
14:54:17 Unit RICH337 [SITREP :] ADVISE OTHER RESPONDING APPLIANCES BOULEVARD
ROAD WEST
14:54:17 End of Duplicate Event data
14:54:17 INC INFO: FIRE SEEN
14:54:17 OFF THE MAIN ROAD
14:56:49 Unit NELS214 [KC : UNIT CALLING]

14:57:03 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:57:03 End of Duplicate Event data

14:57:03 Multiple subscribers for caller number [REDACTED]. TESA lookup recommended.

14:57:03 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =
[REDACTED]

14:57:03 [REDACTED], Caller Address = [REDACTED] THE RIDGEWAY, STOKE, NELSON CITY, Call Source = 111

14:57:03 Inc InfoVEG FIRE, Event Source = Fire 111

14:57:04 INC INFO: VEG FIRE

14:57:13 *

14:57:21 Unit NELS214 [K11P : POLICE REQUIRED] TRAFFIC CONTROL

14:58:01 .

14:58:11 FIR2POL POLICE REQUIRED FOR TRAFFIC CONTROL

14:58:13 .

14:58:14 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

14:58:14 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]

14:58:14 [REDACTED], Caller Address = [REDACTED] THE COASTAL HIGHWAY, REDWOOD VALLEY, TASMAN
DISTRICT

14:58:14 , Call Source = 111Inc InfoVEG FIRE, Event Source = Fire 111

14:58:15 Multiple subscribers for caller number [REDACTED]. TESA lookup recommended.

14:58:15 End of Duplicate Event data

14:58:16 INC INFO: VEG FIRE

14:59:18 R FIRST 111 RECEIVED

14:59:20 *

15:00:38 KCODE [K2 : IN ATTENDANCE AT INCIDENT]

15:00:38 Unit BRIG5075 [K2 : IN ATTENDANCE AT INCIDENT]

15:00:48 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

15:00:48 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]

15:00:48 [REDACTED], Caller Address = [REDACTED] BULLEN STREET, TAHUNANUI, NELSON CITY, Call Source
= 111Inc InfoSMOKE SEEN, Event Source = Fire 111

15:00:49 End of Duplicate Event data

15:00:50 INC INFO: SMOKE SEEN

15:01:28 Unit NELS214 [K2 : IN ATTENDANCE AT INCIDENT]

15:01:28 KCODE [K2 : IN ATTENDANCE AT INCIDENT]

15:02:12 Unit RFONELTAS2 [K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]

15:02:12 KCODE [K22-1 : UNIT AVAILABLE FOR A FURT

15:02:30 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T

15:02:30 End of Duplicate Event data

15:02:30 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED]

15:02:30 [REDACTED]

15:02:30 Caller Ph Number = [REDACTED] Caller Address = TELECOM CELLULAR 027, BLENHEIM

15:02:30 , MARLBOROUGH DISTRICT, Call Source = 111Inc InfoVEG FIRE, Event Source = Fire 1
15:02:30 11
15:02:31 INC INFO: VEG FIRE
15:03:19 Unit RICH337 [KC : UNIT CALLING]
15:05:25 End of Duplicate Event data
15:05:25 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
15:05:25 ype = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph
Numb
15:05:25 er = [REDACTED], Caller Address = TELECOM CELLULAR 027, WHITBY, PORIRUA CITY,
C
15:05:25 all Source = 111Inc InfoSMOKE SHOWING, Event Source = Fire 111
15:05:26 INC INFO: SMOKE SHOWING
15:05:33 Unit RICH337 [SITREP :] SO [REDACTED] FIRE AMONGST PINE TREES 50 X 50 ATTACKING
WIT
15:05:33 H 3 HELOS AND GAINING BETTER ACCESS LOCATION COOPER ROAD OFF
BOULIVANT ROAD WEST
15:08:39 End of Duplicate Event data
15:08:39 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
15:08:39 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc
15:08:39 InfoSMOKE SEEN, Event Source = Fire 111
15:08:41 INC INFO: SMOKE SEEN
15:13:28 KCODE [K2 : IN ATTENDANCE AT INCIDENT]
15:13:28 Unit NELS2110 [K2 : IN ATTENDANCE AT INCIDENT]
15:17:11 KCODE [K2 : IN ATTENDANCE AT INCIDENT]
15:17:11 Unit NELS2111 [K2 : IN ATTENDANCE AT INCIDENT]
15:22:26 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
15:22:26 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111In
15:22:26 c InfoFIRE ON ISLAND, Event Source = Fire 111
15:22:27 End of Duplicate Event data
15:22:28 INC INFO: FIRE ON ISLAND
15:23:04 KCODE [K1 : PROCEEDING TO INCIDENT]
15:23:04 Unit VSOTASMAL2 [K1 : PROCEEDING TO INCIDENT]
15:25:38 Unit NELS214 [KC : UNIT CALLING]
15:26:08 End of Duplicate Event data
15:26:08 Duplicate Event:Location = NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLAND,
T
15:26:08 ype = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111In
15:26:08 c InfoVEG FIRE, Event Source = Fire 111
15:26:09 INC INFO: VEG FIRE
15:27:48 Unit NELS214 [SITREP :] SO LYALL FIRE APPROX 100M SQ 3YO PINES GTWW RURAL
TANK
15:27:48 ER, 214 AND FORESTRY DELIVERIES

15:28:13 KCODE [K2 : IN ATTENDANCE AT INCIDENT]
15:28:13 Unit VSOTASMAL2 [K2 : IN ATTENDANCE AT INCIDENT]
15:43:09 Alarm Timer Extended: 0
15:43:10 Alarm Timer Extended: 0
15:43:11 Alarm Timer Extended: 0
16:02:10 Alarm Timer Extended: 0
16:02:11 Alarm Timer Extended: 0
16:15:28 Unit VSOTASMAL2 [K6 : ON TELEPAGER]
16:15:28 KCODE [K6 : ON TELEPAGER]
16:21:35 ** Event Location changed from "NULL,RABBIT ISLAND,TASMAN DISTRICT: @RABBIT ISLA
16:21:35 ND" to "COOPER RD,RABBIT ISLAND,TASMAN DISTRICT" at: 06/02/19 16:21:35
16:21:37 ** LOI search completed at 06/02/19 16:21:37
16:23:09 Duplicate Event: NULL TASMAN DISTRICT : @RABBIT ISLANDCross Street 1BIRD
16:23:09 RDCross
16:23:09 Street 2WASTNEY RD, Type = VEG VEGETATION FIRE, Caller Name = [REDACTED]
16:23:09 er Ph Number = [REDACTED], Caller Address = [REDACTED] SEATON VALLEY ROAD, UPPER
16:23:09 MOUTER
16:23:09 E, TASMAN DISTRICT, Call Source = 111Alarm Level1, Event Source = Fire 111
16:23:10 End of Duplicate Event data
16:23:10 INC INFO:
16:23:10 ** LOI search completed at 06/02/19 16:22:42
16:23:11 ** Cross Referenced to Event # F2704848 at: 06/02/19 16:23:11
16:55:50 Unit RFONELTAS2 [K6 : ON TELEPAGER]
16:55:50 KCODE [K6 : ON TELEPAGER]
17:00:39 Unit RICH337 [K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]
17:00:39 KCODE [K22-1 : UNIT AVAILABLE FOR A FURT
17:03:15 KCODE [K4 : ON RT INSIDE NORMAL TURNOUT
17:03:15 Unit RICH337 [K4 : ON RT INSIDE NORMAL TURNOUT AREA]
17:46:04 Unit NELS214 [KC : UNIT CALLING]
17:46:40 Unit NELS214 [SITREP :] SO LYALL WW 3 FORESTRY HELOS BULLDOZERS AND
17:46:40 DIGGERS
18:01:32 kcode [K4 : ON RT INSIDE NORMAL TURNOUT
18:01:32 Unit NELS2111 [K4 : ON RT INSIDE NORMAL TURNOUT AREA]
18:47:19 kcode [K4 : ON RT INSIDE NORMAL TURNOUT
18:47:20 Unit NELS2110 [K4 : ON RT INSIDE NORMAL TURNOUT AREA]
19:11:09 Unit NELS214 [KC : UNIT CALLING]
19:11:17 Unit NELS214 [KC : UNIT CALLING]
19:11:45 Unit NELS214 [K4 : ON RT INSIDE NORMAL TURNOUT AREA]
19:11:45 KCODE [K4 : ON RT INSIDE NORMAL TURNOUT
19:12:08 Unit NELS214 [SITREP :] VIA LOOKOUT - GROUND CREW WORKING - DOZER AND
19:12:08 DIGGER H

19:12:08 AVE PUT A PERIMITTER AROUND THE FIRE - 2 HELOS STILL WORKING - FIRE
CONTAINED -

19:12:08 DAMPENING HOT SPOTS

20:08:10 kcode [K1 : PROCEEDING TO INCIDENT]

20:08:10 Unit MARA5925 [K1 : PROCEEDING TO INCIDENT]

20:26:07 Unit MARA5925 [K1 : PROCEEDING TO INCIDENT]

20:26:07 KCODE [K1 : PROCEEDING TO INCIDENT]

20:26:13 KCODE [K2 : IN ATTENDANCE AT INCIDENT]

20:26:13 Unit MARA5925 [K2 : IN ATTENDANCE AT INCIDENT]

20:26:37 Unit MARA5925 [KC : UNIT CALLING]

21:11:12 Alarm Timer Extended: 0

00:26:15 KCODE [K7 : AT NORMAL STATION]

00:26:16 Unit MAPU3111 [K7 : AT NORMAL STATION]

07:39:14 KCODE [K7 : AT NORMAL STATION]

07:39:15 Unit MARA5925 [K7 : AT NORMAL STATION]

08:25:24 Unit BRIG5075 [KC : UNIT CALLING]

08:26:07 Unit BRIG5075 [K4 : ON RT INSIDE NORMAL TURNOUT AREA]

08:26:07 KCODE [K4 : ON RT INSIDE NORMAL TURNOUT AREA]

08:28:13 KCODE [K2 : IN ATTENDANCE AT INCIDENT]

08:28:13 Unit HURU0925 [K2 : IN ATTENDANCE AT INCIDENT]

09:12:09 Alarm Timer Extended: 0

09:41:57 AAC HAYWARD ADVISES A MOTUEKA APPLIANCE WILL BE HEADING OUT SHORTLY

10:05:35 Unit MOTU361 [KC : UNIT CALLING]

10:05:42 Unit MOTU361 [KC : UNIT CALLING]

10:06:05 KCODE [K1 : PROCEEDING TO INCIDENT]

10:06:05 Unit MOTU361 [K1 : PROCEEDING TO INCIDENT]

10:06:12 Unit MOTU361 [K1 : PROCEEDING TO INCIDENT]

10:06:12 KCODE [K1 : PROCEEDING TO INCIDENT]

10:33:31 Unit MOTU361 [KC : UNIT CALLING]

10:38:32 Unit MOTU361 [K2 : IN ATTENDANCE AT INCIDENT]

10:38:32 KCODE [K2 : IN ATTENDANCE AT INCIDENT]

11:22:04 Alarm Timer Extended: 0

16:15:59 APPLIANCE

16:16:02 Unit MOTU361 [KC : UNIT CALLING]

16:17:56 *\

17:01:35 KCODE [K4 : ON RT INSIDE NORMAL TURNOUT AREA]

17:01:36 Unit MOTU361 [K4 : ON RT INSIDE NORMAL TURNOUT AREA]

19:08:02 Unit HURU0925 [KC : UNIT CALLING]

19:09:25 Unit HURU0925 [SITREP :] CAN WE BE MADE AVAILABLE ON AREA - WE ARE AT THE
BRIG

19:09:25 HTWATER HOTEL

19:15:32	Unit HURU0925 [K9 : OFF RT - STATE LOCATION]
19:15:32	KCODE [K9 : OFF RT - STATE LOCATION]
07:05:26	Unit EVENTSCC1 [K7 : AT NORMAL STATION]
07:05:26	KCODE [K7 : AT NORMAL STATION]
07:05:46	UNIT HURU0925 RESPONSE TIME [NULL] ADJUSTED TO 20190207082812ND AT 09/02/2019 07
07:05:54	UNIT 'NELS214' ALERT TIME '[NULL]' ADJUSTED TO '20190206144334ND' AT '09/02/2019
07:05:55	UNIT 'VSOTASMAL2' ALERT TIME '[NULL]' ADJUSTED TO '20190206152303ND' AT '09/02/2
07:05:55	UNIT 'BRIG5075' ALERT TIME '[NULL]' ADJUSTED TO '20190206144532ND' AT '09/02/201
07:05:55	UNIT 'NELS2110' ALERT TIME '[NULL]' ADJUSTED TO '20190206145129ND' AT '09/02/201
07:05:56	UNIT 'HURU0925' ALERT TIME '[NULL]' ADJUSTED TO '20190207082811ND' AT '09/02/201
07:05:56	UNIT 'MARA5925' ALERT TIME '[NULL]' ADJUSTED TO '20190206200809ND' AT '09/02/201
07:05:56	UNIT 'MOTU361' ALERT TIME '[NULL]' ADJUSTED TO '20190207100604ND' AT '09/02/2019
07:06:10	INCIDENT STOP TIME [NULL] ADJUSTED TO 20190207144956ND AT 09/02/2019 07:06:10 >>
07:06:11	** Assigned Result Code: VEG, Detailed Event Type: 1300

Incident

CAD Number F2704786

Incident Reporter

Incident Controller

Distance Travelled (km)

Delay In Receiving Call

Property Details

Occupant

Building Owner

General Property Use


Special Property Use

Purpose Group

Incident Name Nelson Fire Complex	2. Fire & Emergency Region 4	Terms of Reference
3. Location and Summary of the Incident		
<p>The Nelson Fire complex covers three fires:</p> <ol style="list-style-type: none"> 1. F2704034 Pigeon Valley <ul style="list-style-type: none"> o Pigeon Valley o Map Grid, 1602135 / 5418644 2. F2704786 Rabbit Island <ul style="list-style-type: none"> o Cooper Road Rabbit Island o Map Grid, 1611755 / 5431930 3. F2706181 Atawhai/Walters Bluff <ul style="list-style-type: none"> o Iwa Road, The wood. o Map Grid, 1624949 / 5431961 <ul style="list-style-type: none"> • The Tasman Nelson Fire District was in a Prohibited Fire Season at the time of the fires. • The general areas of origin for each of the fires have been secured as best as possible, you will need to check the areas secured and amend as appropriate including updating the restricted entry placards. 		
4. Names and Contacts Details of Key Personnel		
<p>Ian Reade, Principal Rural Fire Officer, Tasman Nelson [REDACTED]</p> <p>Tim Mitchell, Manager Rural Fire, Christchurch [REDACTED]</p> <p>Incident Management Team: based Nelson Tasman Emergency Operations Centre, 28 Oxford Street Richmond [REDACTED]</p>		

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5. Agreed Terms of Reference

1. Before entering the firegrounds
 - Report to the Incident Management Team and receive an incident briefing on the current incident and actions to date, including any health, safety and wellbeing matters.
 - When entering and leaving the incident ground, sign in and out with the relevant Incident Management Team.
 - Appropriate personal protective clothing must be worn at all times while on the fireground, this includes those who you may bring onto the fireground with you.
2. Determine the Origin and Cause of each fire including:
 - The investigation is to be conducted in accordance with the NFPA 921 and NZ edition of the Wildfire Origin and Cause Determination Handbook.
 - Look at the circumstances that lead to the fire.
 - Document any evidence found.
 - Record and photograph the general area of origin
 - Canvass witnesses, including consideration of information on social media and phone messages.
 - Interview relevant witnesses, may include:

 - Thoroughly document and describe the general area / point of origin of each fire.
 - Thoroughly document and describe the likely cause(s) for each fire.

3. Working with other investigators (ie appointed for or by other interested persons):

- Given the losses caused by the fires there is likely to be interest from a number of insurance companies who appoint their own qualified wildfire investigators to establish the origin and cause for some or all of the fires.
- Where practical and in accordance with international best practice, you are to work with those insurance investigators appointed, especially in relation to the scene examination and any evidence testing that may be carried out.
- If an insurance investigator wishes to obtain any documentation or other types of information held by Fire and Emergency NZ they are to request this through the Official Information Act request process.
- Information that is already in the public domain (facebook, photos, videos, material on publicly accessible websites etc), may be compiled and shared with other investigators.
- In the situation where any fire is considered suspicious, co-operation with other investigators or the sharing of any information with them in relation to that fire or fires is to have the prior approval of NZ Police.

4. Separate from the Origin and Cause investigation Report, document any offences that may have been committed under the Fire and Emergency NZ Act 2017:

- Document any offence believed to have been committed and include any supporting information for this conclusion.
- Advise the Tasman Nelson District Principal Rural Fire Officer and Manager Rural Fire Christchurch as soon as possible where it is believed an offence has occurred.

5. Advise the Tasman Nelson District Principal Rural Fire Officer if (and before taking any steps to engage or enter into any binding commitment):

- Specialists or other experts are required to help conduct the origin and cause investigation i.e. electrical engineer etc.
- Arson or other criminal activity is suspected and the Police need to be notified.
- A formal interview is required with a person.

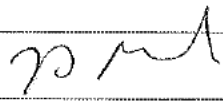
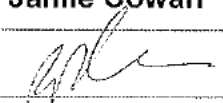
6. Completion:

- A comprehensive wildfire origin and cause determination report is to be completed as part of the investigation.
- A draft report is to be submitted to the Tasman Nelson District Principal Rural Fire Officer and Manager Rural Fire Christchurch for comment before finalising the report.
- As part of quality assurance the draft report will be peer reviewed by at least one Level 3 Wildfire Investigator or equivalent. This will be organised by the Manager Rural Fire Christchurch.

7. Specific Exclusions:

- You are not authorised discuss anything to do with fire(s) origin or cause with the media or members of the public. Any requests for comment by the media or the public should be referred to the IC or PIM team.
- You are not authorised to release copies or any part of the fire investigation report to any person. All enquiries are to be forwarded to Fire and Emergency NZ (for processing in accordance with the Official Information Act 1982) or in the case of a suspicious fire to the NZ Police.

8. Authorised By:

Agency	Fire & Emergency Region 4	
Name	Ian Reade	
Position	Principal Rural Fire Officer	Contact Ph: [REDACTED]
Signature		
Time/Date	13/2/2019 11:00	
9. Accepted by Wildfire Investigator 1		
Name	Jamie Cowan	Ph: [REDACTED]
Signature		
Time/Date	13/02/2019 11:00	
9. Accepted by Wildfire Investigator 2		
Name		Ph: [REDACTED]
Signature		
Time/Date		

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Appendix 6. Witness Identification Log

TO REDACT THIS REPORT PLEASE REMOVE THIS PAGE

Witness 1-

[REDACTED]

Witness 2-

[REDACTED]

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