

## Fire Investigation Report

Early Valley Fire, Port Hills, Version 2 (Revised 2020)



**Fire Authority Name:** Fire and Emergency New Zealand

**Fire Name:** Early Valley Road, Port Hills

**Fire Date:** 13<sup>th</sup> February 2017

**Date of Investigation:** 14<sup>th</sup> February 2017 to the 3<sup>rd</sup> November 2017  
(Revised July 2020)

**Report Completed By:** Graeme Still (Lead Investigator) and Jamie Cowan (Supporting Investigator)

## 2020 Revised Version Explanation and Key Differences

The original 2017 report was revised as:

1. Expert witnesses called in the matter of *Grace & Ors v Orion New Zealand Limited & Anor* (High Court, Christchurch, CIV-2017-409-454) have criticised the method used in the original report of applying an average angle to the slopes around the area of origin. A more precise fire behaviour calculation has consequently been carried out, using the exact slopes and distances.
2. In May 2020, we were provided with previously unseen photos of an arcing conductor clamp from Pole AX728. We hypothesized that this arcing could have been a possible source of ignition and as such needed further investigation.

The key differences between the original 2017 report and the revised version are as follows:

1. Due to the potential for higher temperatures from the ejected fuse components than we had calculated, we have concluded that the fuse could have been a competent ignition source. However, we have not changed our view that the fire started some minutes before the electrical event and subsequent fuse operation. It consequently remains our view that the fuse was not the ignition source for the fire.
2. Detailed diagrams of the slope and distances around the area of origin are now included. More calculations of fire behaviour using the precise slope angles and distances have been carried out, including engaging Scion NZ to carry out 'Prometheus' modelling to determine the estimated ignition time (Report attached in Appendix 10). Calculations now include the drying effect of slope aspect and angle to reflect the fire behavior more accurately in the first 15 minutes. Final manual calculations estimate the ignition time at 17:36 and Prometheus calculated the ignition time at 17:34, on 13 February 2017.
3. The specific origin area has been expanded from 3m from the identified waypoint to 5m, to better reflect the effect scene spolioation had on determining the point of origin (Power pole AX728 was replaced before detailed scene examination was carried out thus disturbing the origin area). The specific origin area now includes the area directly around the pole.
4. Photos showing the fire had climbed Pole AX728 were re-evaluated and demonstrate a further possible avenue for the smoke and/or flames to have been much closer to the conductors than previously assessed.
5. Photos and videos of the scene and data from multiple weather stations just after ignition have been re-evaluated to determine that there was very little wind near the valley floor (along Early Valley Road) at the time the fire started. This precludes certain physical mechanisms with the potential to create a line clash, such as high winds and branches blowing onto the lines.
6. Electrical Engineer Ian Alexander, has provided further information that identifies the arcing clamp as a possible ignition source.
7. The photo log has been updated to include recreated fire progression photos and revised images of fire behaviour.
8. This revised report still classifies this fire as undetermined, as we consider there are two possible ignition sources: the arcing clamp and arson.

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## PART 1: WILDFIRE INVESTIGATING OFFICER

**Name** Graeme Still (Lead Investigator)

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- Qualifications**
- Unit Standard 10615 Investigate origin and cause of vegetation fires
  - Unit Standard 14566 Apply Fire Weather System for Fire Reduction and Readiness
  - Unit Standard 4648 Demonstrate Knowledge of Vegetation Fire Behavior
  - Unit Standard 20392 Protect and preserve a fire scene
  - Fire and Emergency Wildfire Investigator L3
  - Fire and Emergency Wildfire Trainer
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- Significant Fires Investigated**
- WYE Creek Queenstown Lakes 2008
  - Wenita Forest Fire Clutha District 2009
  - Beaties Fire Dunedin Fire District 2010
  - Allanton Fire Dunedin Fire District 2010
  - Hyde Fire Dunedin Fire District 2012
  - Taieri Beach Forest Fire Clutha District 2012
  - Awarua Wetlands Southland RFA 2012
  - Revisit Saunders Fire 2008 Clutha District on behalf of Fire Service Commission
  - Horse Hoof Station 2014
  - Northburn 2014 (Fatality)
  - Marley Hill Fire 2017
  - Early Valley Road Fire 2017
  - Cornish Point Fire 2019
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**Experience**

I have worked in the wildfire industry since 1989 responding to hundreds of wildfires in numerous roles from Fire Fighter to Incident Controller. I have also been involved in planning large scale land clearing operations using fire as a land management tool and developing sound burn plans.

I have been a registered Wildfire Investigator since 2007.

I have been a warranted Rural Fire Officer since 2001.

I have been a Principal Rural Fire Officer for 13 years, both for local government and currently with Fire and Emergency NZ.

I was Operations Manager for the Otago Rural Fire Authority for 3 years, overseeing all aspects of Wildfire including Reduction and Response.

In recent years, I have been a Wildfire Trainer for Level One and Two Investigators Determining Origin and Cause.

I am an Air Attack Supervisor which demands a sound knowledge and operational experience with all aspects of fire behavior.

## PART 1: WILDFIRE INVESTIGATING OFFICER (2)

**Name** James. P. Cowan (Supporting Investigator)

- 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) L5 (2019)
  - New Zealand Fire Service "F1, Structure Fire Investigation Course" (2017)
  - Canberra Institute of Technology PUAFIR604A- Determine Origin and Cause of Structure Fire. (2017)
  - Canberra Institute of Technology PUAFIR501B- Conduct Fire Investigation and Analysis Activities (2018)
  - Canberra Institute of Technology PUAFIR606A- Apply Principles of Combustion and Fire Dynamics to Fire Scene Investigation (2020)
  - Advanced Wildland Fire Behaviour S-490 (Canada 2020)
  - Fire and Emergency NZ Wildfire Investigator L2

**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, Otago (2017)
- Piha Fires, Northland (2017)
- Early Valley Fire, Port Hills (2017)
- Burnside Fire, Otago (2018)
- Chatham's Makara Fire (2018)
- Tiwai Fire, Southland (2018)
- Hawea Fire, Otago (2018)
- Pigeon Valley Fire, Nelson (2019)
- Rabbit Island Fire, Nelson (2019)

## Experience

- I have worked in the wildfire field since 2006, when I was employed by the Department of Conservation with part of my role as a Fire Fighter/Fire Risk Manager.
  - I have been warranted as a Rural Fire Officer (RFO) since 2007 and have attended hundreds of fires and controlled burns in this capacity.
  - I became a wildfire investigator in 2010.
  - I was employed by the Otago Rural Fire Authority in 2014 as a Deputy Principal Rural Fire Officer (DPRFO).
  - I started my own company (Wildfire Management NZ) in 2017 and contracted to the then Otago Rural Fire Authority and latter Fire and Emergency NZ as a RFO and wildfire investigator.
  - I was appointed to the National Rural Fire Authority (NRFA) National Incident Management Team (NIMT) in 2014 as a Situation Unit Leader; since then I have filled many roles in this national team including Fire Behaviour Analyst, Situation Unit leader, Deputy Operations Manager and Planning and Intelligence Manager.
  - As part of this team and/or in my capacity as an RFO or contractor to Fire and Emergency NZ, I have completed 10 international deployments over the last 10 years, with four to Canada (mostly as a Fire Behaviour Analyst) and 6 to differing states of Australia. During these deployments, I have worked at differing levels from Fire Fighter to Crew Leader, Fire Behaviour Analyst and more recently as the lead for New Zealand as the International Liaison Officer.
  - I have been deployed to many of the large fires within New Zealand in varying roles including Fire Behaviour Analyst.
  - In the context of the Port Hills Fires, I was originally engaged by Fire and Emergency NZ to support the operational review for the Port Hills fires by assessing and reporting on the development and chronology of the fire, the weather and fire behaviour and the topography and vegetation.
  - I am currently studying for an Advanced Diploma in Public Safety- Fire Investigation, via the Canberra Institute of Technology.
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## PART 2: EXECUTIVE SUMMARY

<b>Location</b>	On the south side of Early Valley Road, 236 meters past the entrance to 60 Early Valley Road, Lansdowne, Port Hills, Christchurch, New Zealand.
<b>Date of Ignition</b>	13 <sup>th</sup> February 2017
<b>Time of Ignition</b>	Between 17:34 and 17:36 (approximate times, based on fire behavior calculations and witness observations) First received via the 111 system at 17.44.47 CAD Number F2245608.
<b>Area (ha)</b>	The Early Valley Fire contributed to approximately 1000 ha of the total complex area of 1661ha.
<b>Area and Point of Origin</b>	Within 5m of Waypoint 1566060E, 5170559N NZTM
<b>Impact of Fire on Environment &amp; Property</b>	<p>This fire had a large impact on the environment, property and infrastructure. From ignition on the 13<sup>th</sup> of February until the fire had stopped running on the 16<sup>th</sup> of February it had covered approximately 1000ha, damaging four homes and destroying another three. Power infrastructure was also damaged and destroyed. This fire would eventually meet up with the Marley Hill Fire on the afternoon of the 15 February.</p> <p>The environmental impact was significant with numerous shelter belts and small forestry blocks destroyed, land cover was also compromised leaving the area exposed to the prevailing Northerly winds, and subject to erosion. The land cover consisted of:</p> <ol style="list-style-type: none"> <li>1. Scrub consisting of Gorse, Hebe and pockets of Bracken</li> <li>2. Forestry mainly Pinus radiata with some Douglas fir</li> <li>3. Grass cover consisted of mainly rye grass and cocksfoot.</li> </ol> <p>Regeneration in these environments with low fertility soils is very slow, except for the invasion of gorse and weeds. There are community initiatives to over sow this area in grasses to help eliminate the invasion of weeds.</p> <p>The majority of the area burnt is privately owned and will have a slow recovery for private gardens and shelter belts.</p>
<b>Cause of Ignition</b>	This fire cause is categorized as 'undetermined' .

Persons or  
Persons  
Responsible for  
Fire

No responsible party was identified during the course of this investigation.

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## PART 3: PROCESS OF INVESTIGATION

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### Introduction

On the 13 February 2017, at around 1743 hours a fire was reported via the 111 emergency system stating there was a large scrub on Early Valley Road, Lansdowne, Selwyn District.

The district was experiencing elevated fire weather indices and as such the area was moving to a prohibited fire season.

For the purpose of this investigation we will refer to this fire event as the "Early Valley Road Fire" with the Selwyn District Council being the fire authority.

A second fire event started at Marley Hill some 4km away at around 1900 hours and eventually these two fires combined to be one of the most devastating fires in New Zealand history in terms of property and assets lost.

Multiple crews and air support from throughout the country fought this fire for several days before it was brought under control.

The investigation team consisted of

Lead investigator L2: Graeme Still  
 Investigator L1: Roy Hoogenradd  
 Police: Detective Craig Farrant (Christchurch)  
 Supporting Investigator L2: Jamie Cowan

### Subject matter experts

Electrical Engineer: Ian Alexander (IJ Alexander LTD)  
 Scion Rural Fire Research Group, [REDACTED]

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### Process

#### 14 February 2017

- At 0630 hours, I was contacted by Mr. Tim Mitchell, National Fire Manager Region 4 asking if I could assist with a wildfire investigation for the fire that originated on Early Valley Road, Lansdowne, Selwyn District Christchurch on the evening of the 13<sup>th</sup> February. [REDACTED]
  - 0700 hours, I rang Mr. Mitchell and informed him that I was able to assist, Mr. Mitchell formally requested me to carry out an investigation with instructions to assist Mr. Roy Hoogenradd a Level One Wildfire investigator for the New Zealand Fire Service. I informed Mr. Mitchell my arrival would be around 1300 hours.
  - Whilst in transit to the site I contacted Mr. Hoogenradd and informed him I would meet him on the fire ground at Early Valley Road after meeting up with the Incident Controller at Selwyn District Council.
  - At 1307 hours, I arrived at Selwyn District Council and received a briefing from Selwyn Principal Rural Fire Officer, Mr. Douglas Marshall, this included a summary of the incident.
  - An agreed terms of reference was discussed and later documented. (Appendix 7)
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- All available Fire Weather data, the ICAD report and other relevant material to assist with the initial investigation was collected.
- 1550 hours, I meet up with Mr. Roy Hoogenradd at Early Valley Road, at this time it was decided that this event required a Level Two Wildfire Investigator and that I would take over the investigation. An initial scene examination was undertaken and photographed.
- 1820 hours, left Early Valley Road to go to the Marley Fire site.
- 2230 hours, emailed police requesting assistance for this investigation. The terms of reference for the police was to assist in gathering witness statements and for any other enquires and to control and secure the scene.

#### 15 February 2017

- 0800 hours, available witness information gathered, and witnesses contacted for interviews.
- 1030 hours, arrive Early Valley Road Fire scene after arriving back from Marley Hill Fire.
- 1100 hours, commence investigation to determine origin and cause, accompanied by Mr. Roy Hoogenradd whom took photos. A full external and internal examination was carried out.
- Contacted by Orion investigator Ken Legat.
- 1400 hours, Ken Legat arrives at Early Valley Road and terms of engagement confirmed.
- Examination continued until 1500hours at which time fire changed direction and we left fire ground and returned to Selwyn District Council for more intelligence.

#### 16 February 2017

- 07:00 hours, return to fire ground to carry out further external and internal examination accompanied by Mr. Roy Hoogenradd.
- 08:30 hours, Ken Legat Orion investigator arrives at fire ground.
- 09.25 hours, [REDACTED] electrical engineer acting for Orion arrives on scene.
- 09.45 hours, examination of poles and lowered lines along Early Valley Road and also high KV lines up to Burkes Bush examined.
- 10.20 hours, commence internal examination, flagging of fire direction indicators commenced.
- Witness interviews were undertaken by Roy Hoogenradd and Ken Legat.

#### 17 February 2017

- 07:00 hours, assigned to Air Attack for the day and Roy Hoogenradd continues with witness interviews for the day.
  - 17:20 hours, meet with detective Craig Farrant from Christchurch police and Ken Legat (Fire Investigation Services) Orion investigator. Terms of engagement and police involvement was discussed. Police agreed to cordon off and secure the General Origin Area of the Early Valley Road Fire.
  - 17:50 hours, security in place for Early Valley Road.
  - 18:00 hours, return back to Dunedin.
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**19 February 2017**

- 1400 hours, further meeting with Ken Legat to discuss process and progress. Discussed that Orion and others must take lead from me and police.

**20 - 24 February 2017**

- Continue with fire ground investigation on both Marley Hill and Early Valley Road.
- 1430 hours, IAG investigators (Corporate Risk Limited) arrive. [REDACTED] representing. Terms of engagement confirmed, the National Rural Fire Authority are the lead agency and in charge of scene.

**4 April 2017**

- Engage Mr. Ian Alexander Consulting Electrical Engineer to provide independent electrical expert input into the fire origin and cause.

**2 May – 4 May 2017**

- Meet with Mr. Ian Alexander to view fire scene and go through file information.
- Meet with [REDACTED] [REDACTED] (Corporate Risk Ltd) both acting for IAG insurance.

**25 September 2017**

- Jamie Cowan Wildfire Investigator L2, engaged to help prepare this report, carry out fire behaviour analysis and support the investigation.

**10 October 2017**

- Received final Electrical Engineers Fire Cause Report.

**March - 3<sup>rd</sup> November 2017**

- Collate and compile Investigation Report.

**15 May 2020**

- Receive previously unseen photos of clamp arcing on pole AX728 from K Legat (first time information showing this arcing provided to Fire and Emergency NZ).
- Photos sent to Ian Alexander for discussion.

**21 June 2020**

- Graeme Still and Jamie Cowan carry out site visit to reassess all slope angles and fire spread distances.

**30 June 2020**

- Jamie Cowan visits Scion to assist with run of Prometheus modelling and test fire spread timings to aid in the determination of the ignition time.

**1 July – 31<sup>st</sup> July**

- Assess new electrical engineer reports, new photos supplied by K Legat and compile revised report.
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**External Examination****Tuesday 14 February 2017**

Around 16:00 hours I was given a tour of the fire site by Level One Investigator Roy Hoogenradd. I commenced my external examination and recorded GPS coordinates of the perimeter of the area of which I believed to be of interest. Roy Hoogenradd photographed points and anything of interest.

**Wednesday 15 February 2017**

The external Examination continued

Over the course of several days the external examination consisted of walking the power line network from pole AX728 where a ruptured fuse could be seen, to pole DC979 (line to [REDACTED] property), (Appendix 1, Pole map) also the 11kv spur line heading up the ridge southwards was examined. This line runs off pole number AX814. The use of aerial flights and a drone were also deployed for this inspection. Overview photos are attached. Photo log

One of the outcomes of the external examination was determining if there was any outside influence that could have contributed to this fire. These findings are identified under the heading of Elimination of Possible Causes.

Whilst carrying out the external examination the unburnt fuels were identified to help determine the fuel type that was present. After studying directional burn indicators, witness statements and photos, the general origin area was narrowed down to the, 'general vicinity above Early Valley Road between poles AX727 and AX728'. (Photo Log, Photo DJ10063 Zoom) Directional flagging commenced from the head of this area. Macro – Indicators were obvious and included good examples of angle of char, some foliage freeze, and heavy staining on large rocks. These indicators clearly show the advancing fire's progression. While walking the perimeter it became obvious that the fire travelled in a "U" shape direction with lateral/flank fire indicators easily identified and flagged.

**Monday 21<sup>st</sup> June 2020**

Around 10:00 hours Jamie Cowan and Graeme Still met with the landowner of the property where the fire started its run from Pole AX728 and reassessed all relevant slope measurements and fire spread vectors. Original photos taken at the time of the fire were re-evaluated and recreated.

The GPS location of each change in fuel type and/or slope or vector was measured using a laser rangefinder/inclinometer. Photo DCSN0100 (see photo log) taken at 17:44 from Watlings Place showed the fire spread up the hill to a point above the track. This point was estimated to be around 170m from the ignition point. The second point identified from photo DSCN0101 taken at 17:48 from Watlings place, was estimated to be 156m past the point identified in the previous photo. (See photo log, Revised Fire Behaviour 2020, Image 1 and recreated photos.)

Several photos were taken from an elevated site in line with Watlings Place to recreate the original photos and aid in the determination of the fire's location at known times or intervals. (See photo log Revised Fire Behaviour 2020 recreated photos)

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**Internal Examination****16 February 2017**

Due to elevated fire activity during the day of the 15 February the Internal examination was commenced in earnest on the 16 February.

Before entering the General Origin Area, a series of photographs were taken.

**General Origin Area**

An examination of the General Origin Area commenced at 0900 hours starting at the head.

We entered the head/advancing side of the run working our way back to the Specific Origin Area (SOA). We worked both sides of the run identifying flank/lateral transition zones and gradually narrowed this in. From there the advancing head fire indicators were easily identified and flagged. The main indicators in the predominant gorse and grass fuels consisted of, cupping on the gorse which were blunt and rounded off from the advancing fire. Tips were burnt off from the advancing fire among fine fuels like grass stems, indicating the origin side. Other prevalent indicators that helped determine the direction that the advancing fire had taken from the Specific Origin Area was the distribution of white ash on the origin side, (facing the oncoming fire) and staining on the rocks also on the origin side.

At around 15:00 hours photos were taken of the power line that runs up to Burkes Bush Road from pole AX814.

The 11kv lines that run south up the ridge from Early Valley Road were lowered at around 15:15 hours for inspection, the report on these lines is detailed in the I J Alexander electrical engineer report. (Appendix 8). This area is within the General Area of Origin.

After the line examination finished, we continued to track and flag the main fire runs back towards their origins.

There were two significant initial main runs, one moving with wind (southeast direction) and the other slope driven. (south direction) The main fire run indicators were obvious with total foliage removal. Flagging of lateral/flanking, and main run indicators continued, working back to the SOA.

At this point it was evident that an additional unexplained fire run occurred from the west adjacent to pole DC964, at this point I decided to regroup and leave the scene for the day.

Further information obtained from Witness 5, identified how this unexplained additional run had occurred. Witness 5, lit a back burn off Early Valley Road, west of pole DC964 to protect his property, this back burn made a minor run to the south and west but did not contribute to the detrimental outcome of the overall fire event.

**21 – 24 February 2017**

I returned with Ken Legat, Fire Investigator acting for Orion, [REDACTED] Fire investigator acting for IAG insurance and detective Craig Farrant, who gave a briefing to the Orion and IAG investigators prior to entry.

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Flagging of fire direction indicators recommenced within the General Origin Area. Burn and char patterns were easily followed back until a Specific Origin Area was determined near to pole AX728.

Entry was made into the Specific Origin Area, where we were able to identify an area where the fire's direction of spread was first influenced by wind and available fuel. Micro Indicators brought us to area of about 5 meters in diameter. This area was flagging and photographed.

Due to the effects of fire suppression and the removal and replacement of pole AX728, we were unable to determine a Point of Origin or reduce the size of the Specific Origin Area to less than approximately 5m in diameter.

#### 15 May 2020

Previously unseen photos taken by Orion on the day Pole AX728 was removed, and in particular of a clamp and what appeared to be damage caused by an electrical arc, were supplied to us by Ken Legat. The photos required us to re-evaluate the electrical cause possibilities and as such were forwarded to our electrical engineer (██████████) Ian Alexander. (see Ian Alexander Electrical report and Photo Log – Clamp arc, OR14.0.00131, p4).

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<b>Area of origin</b>	The Specific Origin Area was narrowed down to an area within 5m of waypoint
General	1566060E, 5170559N. This area can be described as "9 meters above the Early
Specific or Point	Valley Road about 2m to the south west of pole AX728 on the roadside of the fence". (Photo log, photo DJ10063 zoom)

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<b>Main fire runs</b>	There were two significant initial main runs, one wind driven to the southeast and one more slope driven to the south. These runs would continue until they reached the head of the gully and crossed Summit Road around 4 km away.
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<b>Spot fires</b>	No spot fires were identified in the general origin area. As the fire developed some short-range spotting was observed.
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<b>Indicated cause</b>	From the site examinations, photos and witness reports, the following hypotheses were formed.
	<ol style="list-style-type: none"> <li>1. An electrical event causing molten tin splatter (fuse components) to fall to the ground thus igniting the duff layer and/or fine fuels.</li> <li>2. An electrical event causing molten aluminum and/or other conductor or conductor clamp materials to fall to the ground thus igniting the duff layer and/or fine fuels.</li> <li>3. Cigarette or other similar minor heat source or spark type ignition in the duff layer and/or fine fuels.</li> <li>4. The fire was deliberately lit.</li> </ol>

No positive indication of cause was determined at this stage.

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## PART 4: FIRE SPREAD AND BEHAVIOUR

**Weather Factors** At the time of the Port Hills fires the underlying fire danger due primarily to very low monthly rainfall was very high. As recorded by the Christchurch Airport weather station, February received only 20mm of rain, less than half of the historical average. In the 30 days prior to the fires only 20mm of rain had fallen with less than 3mm falling in the 20 days prior to the fires. Grass curing varied across the Port hills however was considered to be 80% and above and 100% in many places.

Averaging the NZ Fire Weather Index (FWI) Systems indices/codes from three representative local weather stations, namely Bottle Lake, Christchurch Aero and Motukarara, which are all within a 20km radius of the Port Hills, paints the following Fire Weather picture on the day the fires started, Monday the 13<sup>th</sup> of February 2017:

Fine Fuel Moisture Code. (FFMC) 87	Duff Moisture Code. (DMC) 65
Drought Code. (DC) 555	Build Up Index. (BUI) 100

Due to the multiple weather stations available within the general Christchurch vicinity, data from multiple stations has been included below for indicative conditions around the time of ignition. ( see photo log for weather station data) (NB No certification has been sought as to the accuracy of these stations) There were no fire ground readings taken at the fire ground by responders near or during the time of ignition.

Time	Station	Temp	RH	Wind S	Wind D
5:30 PM	Burkes Bush	21.4 °C	37%	4.3 kph	SW
5:31 PM	Lincoln. ICANTERB322	23.8 °C	25%	14.8 kph	NW
5:31 PM	Lincoln. ILINCOLN50	24.7 °C	35%	8 kph	NNW
5:31 PM	TaiTapu. ICANTERB317	23.7 °C	33%	14.3 kph	NNW
5:32 PM	Lincoln. ICANTERB24	24.9 °C	25%	18.3 kph	NW
5:33 PM	Lincoln. ICANTERB159	23.7 °C	32%	16.3 kph	N
5:35 PM	Burkes Bush	21.4 °C	36%	16.6 kph	SSW
5:36 PM	Lincoln. ICANTERB322	23.9 °C	25%	23 kph	N
5:36 PM	TaiTapu. ICANTERB317	23.7 °C	33%	16.3 kph	N
5:37 PM	Lincoln. ICANTERB24	24.8 °C	24%	15.8 kph	NNW
5:38 PM	Lincoln. ICANTERB159	23.7 °C	33%	7.9 kph	N
5:40 PM	Burkes Bush	21.4 °C	37%	18.3 kph	NW
	<b>Average over all stations over 10 minutes</b>	<b>24</b>	<b>31</b>	<b>15</b>	

Added to this is a local resident pilots weather station located at 193 Old Tai Tapu Road, approximately 680m to the NW of the area or origin.

5:40 PM	193 Old Tai Tapu	23.5 °C	35%	3.2 with gusts to 19.3km/hr	N
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From the above average indices gained from multiple weather station and then using the average of the weather readings for the site of ignition we get an approximate hourly adjusted set of Fire Weather Indices as follows. (NB the NZ FWI system provides a set of indices that represent the fires potential at 16:00 each day. These figures can be adjusted to a specific time to better represent the figures at that time)

FFMC	DMC	DC	ISI	BUI	FWI
88	65	555	7	100	23

The Fine Fuel Moisture Code (FFMC) was not overly high due to a hint of rain (0.2mm) around 05:30 that morning and a good RH recovery (97% to 100%) the night before.

Using the Canadian Forest Fire Behavior Prediction System (FBP), the FFMC can be adjusted for the effects of aspect and slope. This is because a north facing slope gets more sun than other aspects and the steeper the slope the more direct the angle of the sun that hits the slope. On the north facing slope the FFMC would be adjusted up 2 points where the slope is over 9° and 3 points where its over 18°. The area of Origin and the slopes above it range from 5° to 30° as identified in Revised Fire Behaviour 2020 Image 1 (Photo log). The FFMC for the area around Pole AX728 would be adjusted to 90.

Looking at the ██████ Oh My God' videos taken at 17:51 as the car is driven along the valley floor starting before the ignition area and transitioning well past it, we can see that there is virtually no wind at all in the valley floor. The grass heads and tree leaves are not moving, and smoke is drifting to the SE upslope very gently. The closest weather station 780m to the NW at the same altitude is consistent with this, showing an average wind speed at 17:30 of 1.6km/h with gusts to 11.3 and at 17:40 an av of 3.2km/h with gusts to 19.3.

Looking at the "Trailer Man" videos taken around the same time from an elevated site to the NE, (same angle as Watlings Place photos) we have estimated the wind speed to be 20km/h on the slopes 300m above pole AX728. The Burkes Bush weather station 2.1km upslope from Pole AX728 is consistent with this, showing a wind speed of only 4.3 km/h at 17:30 increasing to 16.6km/h at 17:35, 18.3km/h at 17:40.

#### Fire Weather Conclusion.

Based on the video observations, weather station readings and FFMC adjustments for hour, slope and aspect the following fire weather values, codes and indices have been calculated for the General Origin Area. (In the Fire Behaviour section of this report the wind speed is adjusted for slope starting at 5km/h in the valley floor and increasing to 20km/hr 64m up the slope.)

Temp	RH	Wind	FFMC	DMC	DC	ISI	BUI	FWI
24	31	15	90	65	555	7	100	23

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

1. **An electrical event causing molten tin splatter (fuse components) to fall to the ground thus igniting the duff layer and/or fine fuels-**

The FFMC and relative humidity at the time of ignition were conducive to an ignition by small molten tin/stainless steel and other fuse particles. The temperature of the fuse components vary from the melting point of Tin at 231°C, to the melting point of the stainless steel strand (very small amount) in the core of the fuse at around 1400°C. (refer to I J Alexander electrical engineer report, Appendix 8) There is also the argument that the arc within the fuse could generate plasma at much higher temperatures. We have not

carried out destructive testing on this fuse type and as such have not determined the exact temperature of the potentially ejected particles. The particles falling to the ground will cool quickly and need to maintain enough temperature and mass to ignite the fine fuels. Depending on the particle size this will vary immensely. This theory relating to the energy content of a particle has been critiqued by Babrauskas V (2003) *Ignition Handbook* and Hadden, Scott, Lautenberger, Fernado-Pello (2010) where they conclude that the ignition potential was governed not only by the energy of the particle but also its temperature and size.

In the study *Ignition of Combustible Fuel Beds by Hot Particles*, Hadden, Scott, Lautenberger, Fernado-Pello (2010), hot spot ignition theory is used to determine the particle size-temperature relationship required for ignition of a cellulose fuel bed. This study concludes that to get flaming ignition from a particle as low as 650°C, a particle size (spheroid) of 19.1mm was required and for particles more relevant to this investigation (very small), 1200°C was required to get flaming ignition from a particle size of 2.4mm. No particles were found around pole AX728, however given the components of the fuse we have concluded that any ejected particles would be much closer to the 2.4mm mentioned above than the 19.1mm. It is our opinion that although unlikely, it is possible for these particles to have ignited the duff and/or fine fuels and as such have concluded that this is a viable ignition source.

**2. An electrical event causing molten aluminum and/or other conductor or clamp materials to fall to the ground thus igniting the duff layer and/or fine fuels.**

As for hypothesis 1 above, all parameters are the same except the potential temperature and size of any falling molten aluminum or steep particles. Aluminum has a melting point of 660°C and the steel clamp and infrastructure of around 1400°C. Given the obvious melting of the conductor and formation of droplets as shown in Phot log- Clamp arc, new image 1 we can expect larger, hotter particles falling to the ground and as such a greater potential for ignition than in hypothesis 1 above. We have concluded that this is a viable ignition source.

**3. Cigarette or other similar minor heat source or spark type ignition in the duff layer and/or fine fuels. -**

The FFMC at the time of ignition was not particularly high and consequently would not have been conducive to an ignition by a cigarette or other minor heat source. The Wildfire Origin and Cause handbook states that to get an ignition by cigarettes or other smoking related accoutrements, the RH needs to be under 22%. (The closest weather station was reading 35% around the time of ignition.)

The distance from the road to the Specific Origin Area is around 9m, we believe it is possible although difficult for a cigarette to be flicked that distance. No evidence of cigarettes was found in the Specific Origin Area.

**4. The fire was deliberately lit.-**

The weather around the time of ignition would have made it relatively easy for a fire to be started with some form of sustained heat source such as a lighter or other similar device.

## Fuel Factors

The fuel in and around the area of origin was 80% to 100% cured ungrazed grass and scattered sprayed and unsprayed standing gorse around 1.8 m high. These fuels are easily ignited. The moisture content of these fuels is very important.

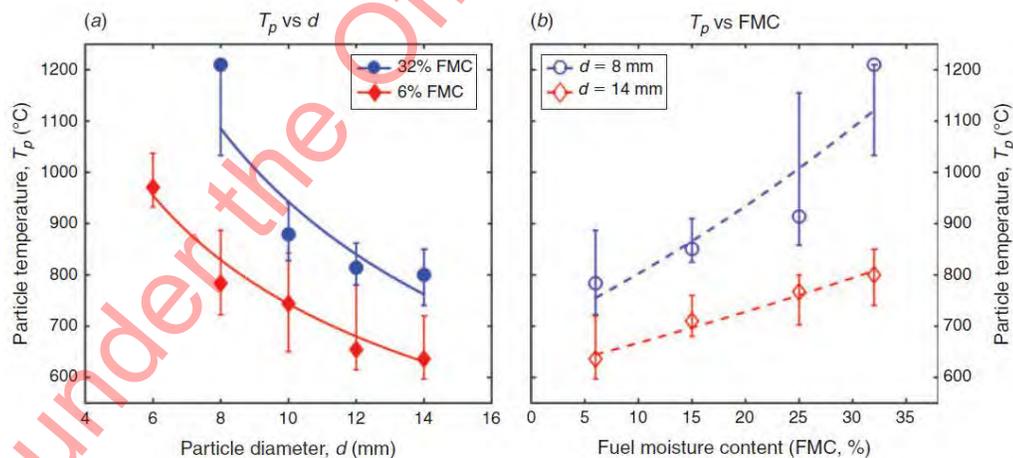
As discussed in weather factors above and topographical factors below, the FFMC can be adjusted to 90 around Pole AX728.

The daily FFMC is derived from the relationship between temperature, humidity and rainfall readings taken daily at 12:00 LST. These readings are then calculated to represent the FFMC for the peak fire conditions at around 16:00 LST. Using the humidity (RH) at the time of the fire, we can adjust this predicted 16:00 FFMC to an actual FFMC at the time of ignition (17:34 to 17:36). In this case, the FFMC has been adjusted to 88 and then further adjusted to 90 for slope and aspect. FFMC does not directly correlate to the Moisture Content (MC) of the fine fuels, however, we can use previous studies to give an indicative value of MC from the FFMC. Bianchi and Defosse (2015) concluded that for a FFMC of 89 the MC was between 6% and 11%. Van Wagner (1987) concluded that an FFMC of 91 equates to an MC of 10%. For this investigation, we will assume a MC of 10%. This is a low moisture content where it is much easier to ignite most fine fuels including grass.

It would be unlikely for the MC to be any lower than 10% because there was a hint of rain 0.2mm at around 05:30 and the RH stayed high right up until about 16:00. (Motukarara 51%, Tai Papu rd, pilots 60%, Lincoln 63%) Fine fuels pick up moisture easily and take time to dry out. (16 hours to lose 2/3<sup>rd</sup> of available moisture from saturation under normal conditions)

The importance of MC is highlighted in the findings of Wakelin (2010), "Fuel MC is a highly significant variable affecting the ignition thresholds of fuels. In many studies it is the single most important variable (Wilson, 1985; de Groot et al., 2005; Plucinski & Anderson, 2008; Anderson & Anderson, 2010; Dimitrakopoulos et al., 2010)".

Wang et al. (2016) graphed their results showing the effect of particle size and MC on ignition as follows:



**Fig. 4.** The measured critical particle temperature  $T_{p,crit}$  as a function of (a) particle size  $d$  (solid lines); and (b) FMC (dashed lines), with  $2\text{-m s}^{-1}$  wind. The error bars are bounded by the 5 and 95% ignition probability.

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

1. **An electrical event causing molten tin splatter (fuse components) to fall to the ground thus igniting the duff layer and/or fine fuels-**  
Research places the average ignition temperature of vegetation fuels at about 260-315° C. (*Guide to Wildland Fire Origin and Cause Determination NWCG 2016*) As discussed above in "Weather Factors", this is dependent on the size and temperature of the particles. The findings of Wang et al. (2016) graphed above show that an 8mm l particles at 10% MC would need to be around 800°C to generate enough energy for ignition. Given the maximum temperature of the molten tin/stainless steel potentially ejected from the fuse casing and given these small molten droplets would have started to cool as they fell to the ground, it is unlikely but possible (we don't know what the exact size or temperature of the particles were) that they can be considered as a competent ignition source.
  2. **An electrical event causing molten aluminum and/or other conductor or clamp materials to fall to the ground thus igniting the duff layer and/or fine fuels.**  
As for hypothesis 1 above, the fuel at ignition would be the same with the same MC and the only change is the potential greater temperature and size of any falling molten aluminum or steel particles as discussed in "Weather Factors".  
We have concluded that this is a viable ignition source.
  3. **A cigarette or other similar minor heat source or spark type ignition in the duff layer and/or fine fuels. -**  
The 80% to 100% cured grass, scattered sprayed gorse and subsequent duff layers would have formed a physical fuel bed conducive to an ignition of this type. However, given the FFMC and humidity factors as explained in the 'Weather Factors' section above, the fuel itself would have been difficult to ignite with these ignition types.
  4. **The fire was deliberately lit.-**  
The presentation and type of fuel in the Specific Origin Area would have ignited easily with some form of sustained heat source such as a lighter or other similar device.
-

**Topographical Factors**

The Specific Origin Area (SOA) is above the road on a north facing uphill 12 deg slope. (Av slope). A north facing aspect is warmer and dryer than other aspects as such it would have been more conducive to any form of ignition than other aspects. As discussed in the weather section above, the Canadian Forest Fire Behavior Prediction System, (FBP) the FFMC adjusts for the effects of aspect and slope. This is because a north facing slope gets more sun than other aspects and the steeper the slope the more direct the angle of the sun hits the slope. On the north facing slope the FFMC would be adjusted up 2 points where the slope is over  $9^{\circ}$  and 3 points where its over  $18^{\circ}$ .

The area of Origin and the slopes above it range from  $5^{\circ}$  to  $30^{\circ}$  as identified in Revised Fire Behaviour Image 1 and Revised Fire Behavior Image 4.

The FFMC for the area around Pole AX728 could be adjusted to 90.

This slope factor had a significant effect on the initial fire runs by more than doubling the rate of spread compared to flat ground.

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**Burn and Char Patterns**

As described and photographed in the external and internal examinations.

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## Fire Behaviour

Predominant fuels include 80% to 100% cured ungrazed standing grass around 0.4 to 0.8m high and sprayed and unsprayed standing gorse around 1.8 m high. Each change in slope and/or fuel and vector was measured as can be seen in Image 1. (Photo log Revised Fire Behavior Image 1 and subsequent photos)

Image 1)- Waypoints, measurements and slopes. June 2020.



The key measurements are segments from pole AX728 to where the fire was photographed at 17:44 and again at 17:48. These photos were recreated then the location of the fire in each photo was determined. (See photo log, Revised Fire Behaviour recreated photos.)

These segments and their descriptions are as follows: (segments J to M make up the vector between the Specific Origin Area and the photo taken at 17:44, Segment O is the vector between the 17:44 and 17:48 photos)

J = 18m segment from Pole AX728 through predominantly grass fuel at 20° slope.

K = 11m segment from the end of J through gorse on a flatter terrace at 5° slope.

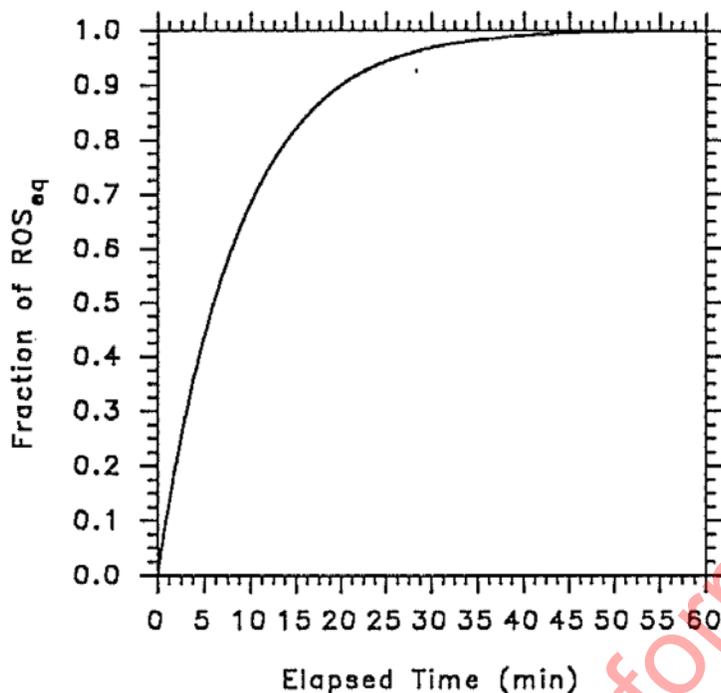
L = 34m segment from the end of K through gorse to waypoint 477 at 30° slope.

M = 107m consisting of 3 segments all at 15° slope but with fuel changing from gorse to grass and back to gorse.

O = 156m segment of gorse running from the point the fire was photographed at 17:44 to the point it was photographed at 17:48 on a 12° slope.

Using the segment information identified above and the NZ Fire Behaviour Toolkit created by Scion and supported by Fire and Emergency NZ, we can calculate the Equilibrium Rate of Spread (ROS eq) (Equilibrium or steady state rate of spread is achieved once a fire has transitioned from its incipient or developing stage and gone through a period of acceleration. Fires do not start out at equilibrium; they take time to build up).

The acceleration period is not an exact science. Studies have shown that this phase can take more than 45 minutes in grass fuels. (*Chandler et al. 1983. Van Wagner 1985. Cheney and Gould 1995.*) The Canadian FBP system uses an acceleration curve that assumes that a fire will reach 80% of its equilibrium within 20 minutes in open fuel types. (*Fig 17. Forestry Canada Fire Danger Group. 1992. Development and structure of the Canadian Forest Fire Behaviour Prediction System. For. Can., Ottawa, Ontario. Inf. Rep. ST-X-3.*)



**Figure 17. Open canopy fuel type acceleration model.**

Applying the acceleration curve and adjusting each segment according to the time after ignition we can calculate the accelerating ROS ( $ROS_{acc}$ ). The following table calculates the  $ROS_{eq}$ , the  $ROS_{acc}$  and the time it would take to travel through each segment.

Segment & length	Wind (km/h)	Slope (deg)	Fuel	$ROS_{eq}$ (M/sec)	Acceleration (fraction)	$ROS_{acc}$ (M/sec)	Time (sec)
J x 18m	5	20	Grass	0.46	0.3	0.137	131.31
K x 11m	5	5	Gorse	0.45	0.3	0.135	81.03
L x 34m	10	30	Gorse	3.53	0.4	1.410	24.10
M x 20m	20	15	Gorse	1.62	0.4	0.646	30.94
M x 50m	20	15	Grass	0.81	0.4	0.322	154.96
M x 37m	20	15	Gorse	1.62	0.6	0.969	38.16
O x 156m	20	12	Gorse	1.35	0.65	0.880	177.19

(NB Segment "O" is the vector between the photos taken at 17:44 and 17:48)

The total time from pole AX728 to the photo taken at 17:44 is 460 seconds or 7 minutes and 40 seconds. This would give an ignition time of around 17:36. This figure is conservative because during this run the fire has jumped a 4m wide road, this will have slowed the fire down and has not been allowed for in the above figures.

The second photo at 17:48 shows 156m of run in 4 minutes in Gorse, this equates to 40m/min. This is a critical figure as it is the only actual known rate of spread that we have. It is almost certain that the wind is greater as the elevation increases, as such the ROS would be slower lower down, conversely the FFMC is likely higher lower down due to steeper slopes and more north facing aspect resulting in a higher ROS.

Segment 0 (segment between the 2 photos) is calculated to have taken 177 seconds or just under 3 minutes. This is obviously a little fast but gives us confidence that the ignition time of 17:36 is not overstated.

(NB. Wind at 20km/hr equates to an elliptical fire growth in grass fuels with a Length to Breadth ratio (L/B) of about 4.4 : 1. and 2.6 : 1 in heavier fuels. From photos we have calculated the actual L/B Ratio at around 4:1.

Scion NZ (Scion is a Crown research institute that specialises in research, science and technology development for the forestry, wood product, wood derived materials and other biomaterial sectors.) were engaged to carry out fire behaviour modelling using Prometheus. Prometheus is a deterministic wildland fire growth simulation model based on the Fire Weather Index (FWI) and Fire Behaviour Prediction (FBP) sub-systems of the Canadian Forest Fire Danger Rating System (CFFDRS). Prometheus has been upgraded to use NZ fuel types and models and is arguably the best fire behaviour tool relative to the NZ environment that is available today. Prometheus can model the effects of tracks, roads, firebreaks and other non-flammable obstructions so they have factored in the 4m track that was breached prior to 17:44. Multiple scenarios were run including using the actual weather from the closest weather stations, (Burkes Bush) removing or adding the track, adjusting the FFMC to simulate a fuel moisture of around 7% and several changes to wind direction. Every single scenario found an ignition time before 17:39. The most accurate scenario that best matched the fire spread direction and speed as calculated from the two time stamped Watlings photos (17:44 and 17:48), the weather on the day as used by this investigation report, an adjusted FFMC to allow for the aspect and slope, and a constant wind speed of 19km/h, found an ignition time of 17:34. (Wind speed was reverse engineered (estimated) from the Gorse fire behaviour model and the known distance and time)

**Scion Scenario 1b. Best fit. Ignition 17:34. (4 minutes between photo points 17:44 – 17:48 with a 19km/h wind speed)**



The fire scientists at Scion have also provided context and other comments around the assumptions used and accuracy of information. (See appendix 10)

The above-mentioned Watlings photo taken at 17:48, shows the total fire spread over 326m and this is calculated above to have taken 14 minutes. This shows an average ROS over this period of around 23m/min.

The earliest visual recording of smoke or fire is at 17:42. (CCTV footage, Halswell Junction looking SE. Time stamp verified, see Timeline appendix 3) Given that this CCTV footage was taken from around 7km away and at a low angle, it is likely that smoke was present some minutes before this time and was only visible once it had reached a certain height above the ground/trees and a density sufficient to be observed from 7 km distance.

There are still many unanswered questions, such as did the fire start with a flaming or smouldering ignition? If it was flaming, then the figures calculated above would be correct. If it was a smouldering ignition, then the fire could have started at an unknown time before 17:36 as the transition from smouldering to flaming ignition is unknown. Given it was a warm, dry day in fine fuels, I would expect it to be within 1 or 2 minutes as opposed to 5 to 10 minutes. What was the actual grass curing? We have assessed this to be 80%, but this is subjective. What was the actual fuel moisture content?

Despite the many unanswered questions, we do have a known timed run in a known fuel, and this does give us our best opportunity to calculate the ROS back to an ignition time.

Any calculations carried out that suggest a ROS greater than 40m/min prior to 17:48 are incorrect, because the actual ROS from 17:44 to 17:48 is 40m/min and this is the highest part of the slope exposed to the greatest wind. Despite being not as steep as some short sections of the lower slope, the fire run in the upper section has had time to build up speed, is not slowed down by the effects of the track and is in continuous gorse fuel which has a greater ROS than grass.

**How the Fire behaviour factors relate to the potential fire cause hypotheses are as follows;**

**1. An electrical event causing molten tin splatter (fuse components) to fall to the ground thus igniting the duff layer and/or fine fuels-**

(Refer to I J Alexander electrical engineer report) We have concluded that the fire started before the electrical event and fuse operation at 17:39:56, so what caused the electrical event and fuse to blow? An arcing/flashover caused by the gases and smoke becoming a conductor, or the flame (ionised flames conduct electricity) itself being close to the lines, are possibilities. As previously seen by investigator Graeme Still on two occasions and as discussed by *Frost et al 2007*, *Mphale and Heron 2007*, smoke and most certainly flame can become a conductor and cause flashover between power lines. This would have required sufficient smoke and gasses to get close enough to the conductors to cause a flashover. The photo (Photo log, Revised Fire Behaviour- Fire climbing pole) shows that the fire has climbed up the eastern side of pole AX728 to within a few metres of the conductors; as such it need not be the fire on the ground that has caused the event but the fire much closer to the lines up the pole or both.

We have concluded that this hypothesis (i.e. ignition from molten tin splatter (fuse components)) is not valid, due to the timing discrepancy between the electrical event that caused the fuse to operate and the assessed ignition time of the fire.

2. **An electrical event causing molten aluminum and/or other conductor or clamp materials to fall to the ground thus igniting the duff layer and/or fine fuels.**

(Refer to I J Alexander electrical engineer report) Given the fire started before the electrical event at 17:39:56 and the arcing found on the clamp and obvious signs of melted aluminum seen in (Photo log, Clamp arc, new image 1) we have concluded that it is possible for this event to have caused the fire and the fire to then have caused the electrical event as described in Hypothesis 1 above. Given we do not know when the arcing occurred on the clamp, we can only determine that it is possible for this to have been the cause of the fire and that this would be a viable ignition source.

3. **Cigarette or other similar minor heat source or spark type ignition in the duff layer and/or fine fuels. -**

The fire behaviour calculations shed no light on this hypothesis, however as mentioned it is unlikely due to the weather conditions on the day and no proof was found to suggest this cause.

4. **The fire was deliberately lit.-**

The fire behaviour calculations shed no light on this hypothesis. Given that the fire was not caused by the electrical event this hypothesis needs further testing. No proof was found to support this cause, however this is often the case in arson fires.

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**Witness  
Statements/  
Observations**

See Witness Identification Log Appendix 10 for personal contact details.

The main witness interviews/statements were obtained by the New Zealand Police, Roy Hoogenradd and Ken Legat on behalf of the investigation team. We have dozens of statements and hundreds of photos that were offered up by members of the public and/or were obtained via interviews. Copies of these have not been included in this report and are kept on file.

Having reviewed all the witness statements, we have found that apart from photos, videos and their timestamps, there is little of significant relevance to be included in this investigation report.

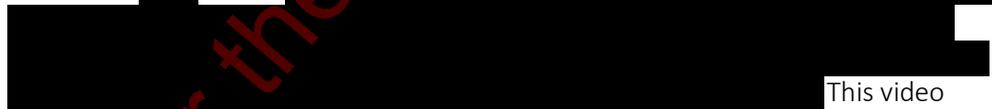
The witnesses are all credible and the statements all include approximate times that people saw the fire and the approximate area in which it started however no conclusive facts other than what we know from photos and videos, were identified that are overly significant to the origin and cause of the fire. There is limited corroborated evidence by the witnesses to any factual event or specific time.

We have however included a summary of some points that may be considered of interest and the source of the relevant photos and videos.

**Witness 1-** 1743. First caller to 111. Saw fire in its early stage, noticed the fire as a bit of a “flash that appeared in the corner of my eye”. This witness thought the fire may have started with a bit of a flash, maybe like fuel igniting. This witness also took photos on his phone starting at 1746. (Photo log, photos 2746 and 2748)

**Witness 2-** 1746. Second caller to 111. This witness saw a plume of smoke, grabbed some sacks and then called 111 whilst being driven to the scene with 3 associates. Thought the backing fire was between the road and the fence but hadn’t reached the road edge yet. The head was 10m or so up the hill and heading up under the powerlines that run up the hill. Thought it had started around about at the fence level.

**Witness 3-** Video:



This video shows the location and fire behavior of the fire at this time. Several still photos taken from this footage are included in the photo log. (Photo log, Photos, OMG9 to 14 and OMGA1 and 2.)

**Witness 4-** This witness heard a loud bang whilst in the presence of another person. Thought it may have been “a gas bottle exploding” or “two empty rubbish bins somehow being banged together”. Also noted that the power went out around the same time or after the bang but could not confirm the time other than it was around 1730. Thought the fire started about “5-6 minutes” after the bang.

**Witness 5-** This witness lit a back burn around the western flank of the fire to stop it moving in that direction. Confirmed he still had power around 1735-1740, could not confirm exactly when it went out.

**Witness 6-** This witness thought he saw a bit of a flash and the fire starting around 1737, he has a phone record of ringing his wife at 1742 to tell her of the fire (police statement) and the same call recorded as 1746 in a statement with Orion’s investigation team. (unable to confirm the exact time without further investigation)

**Conclusions-** Having discussed the witness observations of a flash and a bang with Ian Alexander the electrical engineer, he confirmed that the **second** stronger overcurrent event (flashover all 3 phases at 17:47:14) described in his report under section 6.5.3, would most likely have caused a flash and a bang and the first overcurrent may also have caused a minor flash.

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**Electrical Report**  
**I J Alexander,**  
**Electrical**  
**engineer.**

Due the complexity of this event an Electrical Engineer was engaged to help the determine whether an electrical event was responsible for this fire.

**Summary of relevant key findings from the original and revised reports and how they relate to this investigation**

1. That due to low wind speeds and a lack of evidence including tree debris a conductor clash was ruled out.
  - This is significant because we can find no reason for the electrical event and subsequent fuse blow at 17:39:56 other than the smoke/and or ionised flames shorting out the conductors.
2. The activation of the fuse could have caused ignition, but not within the time parameters as determined by Mr. Still and Mr. Cowan.
3. The most likely cause of the fire is considered as the failure of the Yellow phase cable clamp, which emitted aluminum particles when it overheated. In turn, the aluminum particles caused a fire under the 11 kV power line causing a flashover between the Yellow and Blue Phases, which operated the Yellow phase fuse at 17:39:56.
4. That the cause remains undetermined.

**PART 5: VISUAL AND PHYSICAL EVIDENCE**

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**Visual Images**      Photos and videos were taken by this investigation team, the NZ Police and members of the public. Photos were taken from the ground and aially using helicopters and drones. All photos and videos are stored in Fire and Emergency New Zealand's database. A sample of the more relevant photos are attached in the photo log-Appendix 4.

**Physical Site  
Evidence**

Exhibits held by the police.

- The Blue, Yellow and Red phase fuse holders and fuse remains.
- Unidentified items found in the Specific Origin Area by the investigation team, given to the police for security and identification in the result that arson was suspected. (No results have been sought at this time)

Exhibits held by Orion Energy.

- Poles AX728 AX727 and the 11kv conductors that ran up Burkes Spur from pole number AX814. These were stored in a secure container firstly at Connetics yard in Chapmans Road, then to Orion Yard.

Some questions have been raised as to the chain of evidence and the identification of some of the fuses and their origins. See I J Alexander Electrical Engineer report.

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## PART 6: ORIGIN AND CAUSE

**Determination of the Specific Origin Area.**

Witness statements, photos, videos and burn and char patterns all lead us back to a Specific Origin Area of origin within 5m of waypoint 1566060E, 5170559N. This area can be described as '9 m above the Early Valley Road about 2m to the south west of pole AX728 on the roadside of the fence.

**Elimination/ explanation of possible causes****Causes that were eliminated or identified:**

1. Electrical cause- Given the following, it is unlikely that this fire was caused by the electrical event and fuse operation at 17:39:56 but may have been caused by the conductor clamp arcing:
  - the conclusion of Mr Alexander's updated electrical report;
  - the obvious arcing and melting of the conductors at the clamps;
  - the fire behavior calculations indicating the fire started prior to the first overcurrent event and subsequent fuse blows;
  - the very low wind speed in the valley floor precluding a line clash or branch falling on the conductors;
  - the burn marks up Pole AX728, showing that the smoke and flames would have been much closer to the conductors than a fire on the ground.
2. Refraction/magnification – No Glass bottles or reflective items were present in the Specific Origin Area (SOA).
3. Lightening - No lightening was detected by Metservice in this location around or before the time of ignition.
4. Incendiary devices- No evidence of an incendiary device or fireworks were found in the SOA.
5. Accelerants- No evidence of accelerants was found in the SOA.
6. Cigarettes- No cigarette remains; matches or other sources of open flame were found in the SOA. Given the relatively low FFMC and moderate/low RH any cigarette or spark type ignitions are unlikely.
7. Spontaneous combustion- No evidence of spontaneous combustion was found in the SOA.
8. Possum or other wildlife arc/strike event- Possum guard was present on pole AX728 and no sign of recently dead or injured birds or other wildlife were present in the SOA. (All poles in the line network were checked for signs of wildlife interference after a couple of poles were found without possum guards however, no signs of a wildlife arc/strike event were found)
9. Miscellaneous causes- No evidence of any other ignition source or activities including burn offs/rubbish fires.
10. Electric fence- Some electrical fence tape was found further up Early Valley Road but was not connected to any power source and no evidence was found to suggest it had blown up onto the power wires.
11. Children- No recent evidence that children have played or frequented the area were found in the SOA.
12. Incendiary/Arson- Although no evidence of arson was identified in the SOA, arson by its very nature is often hard to identify. Given the occurrence of other suspicious fires within the area including the Marley's Hill fire and given the lack of any other probable cause, this cannot be eliminated and should be considered further.

**Cause or most likely cause of fire** Given the evidence available and identified as part of this investigation it is our conclusion that:

As no cause was determined, this fire must be categorized as 'undetermined'. We are left with two possible causes, the conductor clamp arcing or arson.

We acknowledge that a lack of evidence is not evidence enough to categorize this fire as 'incendiary' and as such our determination must stay as undetermined until/or if new evidence is found. (NFPA 19.6.5.1)

## Conclusions

There is belief or suspicion among many that this fire was started by an electrical event, namely the rupture of a fuse and the fire starting as a result of molten fuse metal falling to the ground. After careful consideration we do not believe this is the case and more likely that the fuse operation was caused by the fire.

If the fire had been caused by the electrical event/fuse operation at 17:39:56, all the evidence would have pointed to the fire starting at or after 17:39:57, and there would have been evidence of an event such as a conductor clash caused by high winds or other mechanical means.

The second hypothesis that the fire started as a result of molten metal falling to the ground due to the clamp arcing is more plausible and aligns better with the calculated ignition time. The difficulty here is that we have no way of knowing when this event happened and as such this precludes a conclusive determination about this possible cause.

The third hypothesis was that the fire could have been started by a cigarette or other similar spark related event. Given that the humidity is likely to have been above 30% and almost certainly not below 22%, (the threshold for cigarette ignitions) and the moisture level in the fuels wasn't super low due to the trace amount of rain and the good relative humidity recovery overnight (another factor required by cigarette and other spark type ignitions) and the fire starting some metres above the road, an ignition of this type does not stack up.

Overlaying the above evidence (available to these investigators) with a lack of any obvious ignition source (typical with arson fires) and the occurrence of the suspicious Marley's Hill fire a short time later, we are left with the possibility that the fire could have been caused by human hands.

Determining a cause by excluding all other causes without actual evidence of the cause, '*negative corpus*', is not consistent with the scientific method used in fire investigation. (NFPA 921 19.6.5)

Thus, without finding evidence of the probable cause and being left with two possible causes, we must categorise this fire as 'undetermined'.

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Investigation and report completed by:

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**Name**

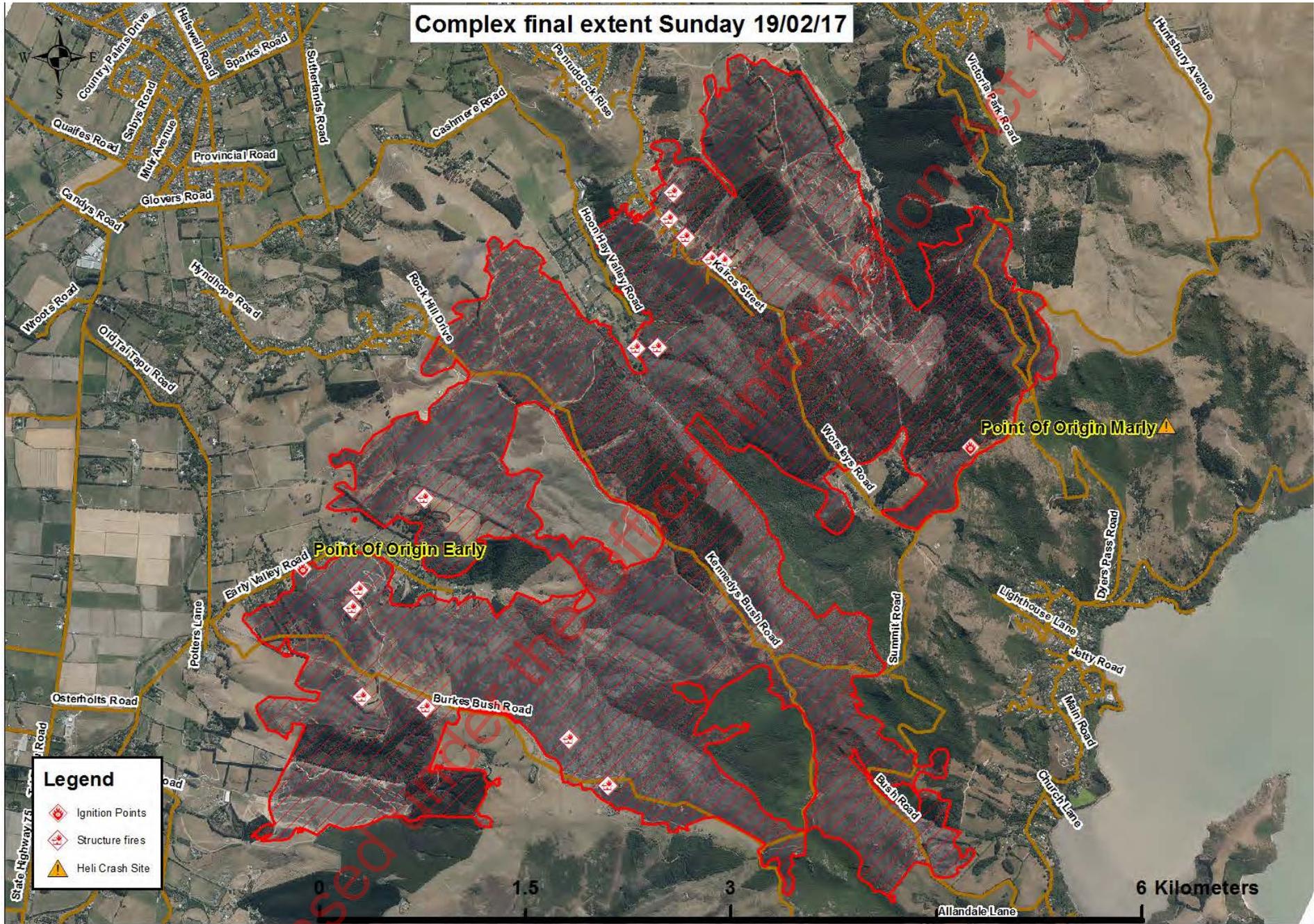
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Principal Rural Fire Officer  
Otago District  
Region 5  
Fire and Emergency New Zealand  
Phone [REDACTED]

Supporting Investigator- Jamie Cowan  
Wildfire Management Specialist/Wildfire Investigator  
Wildfire Management NZ.  
Phone [REDACTED]

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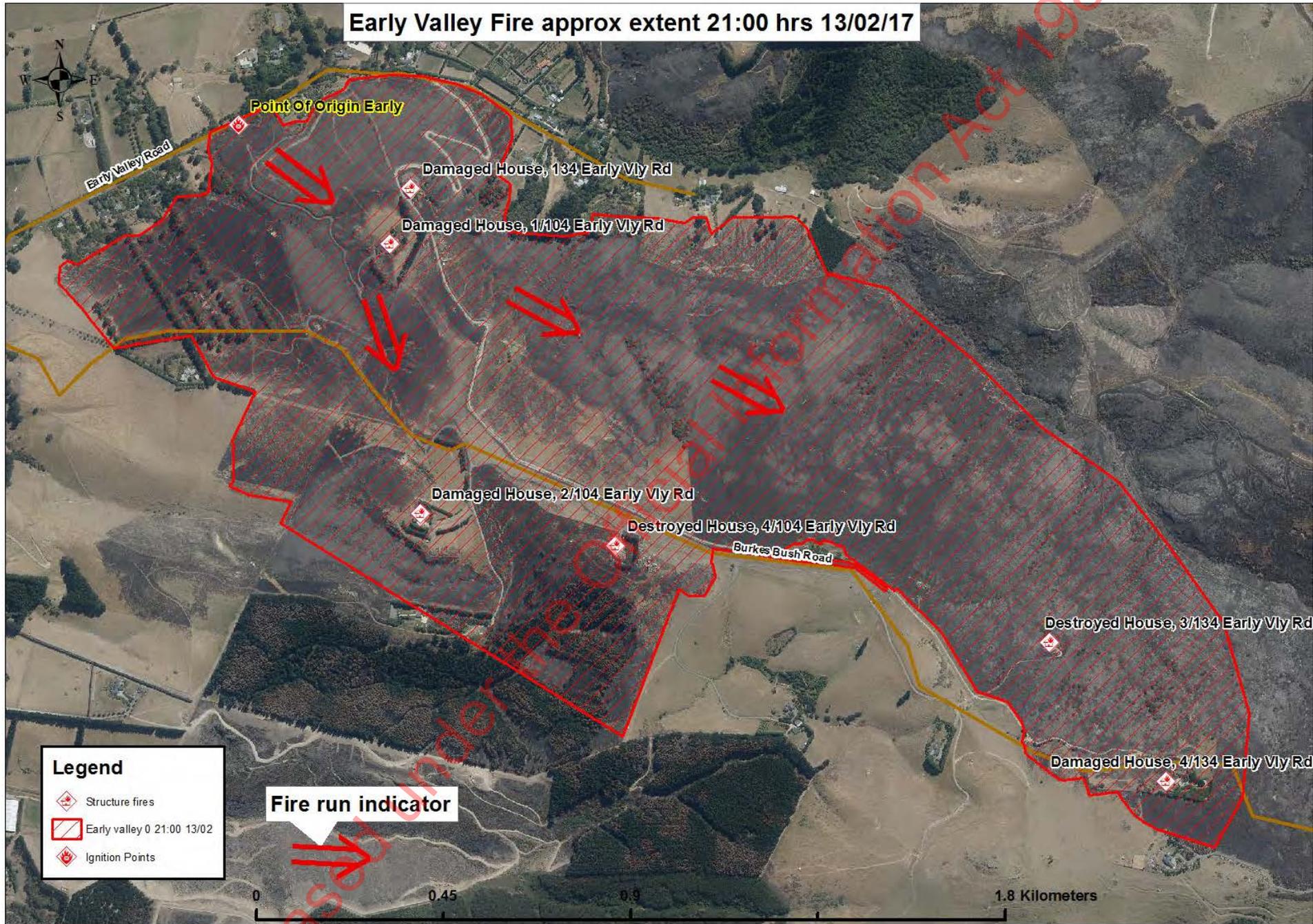
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Early Valley Fire approx extent 21:00 hrs 13/02/17



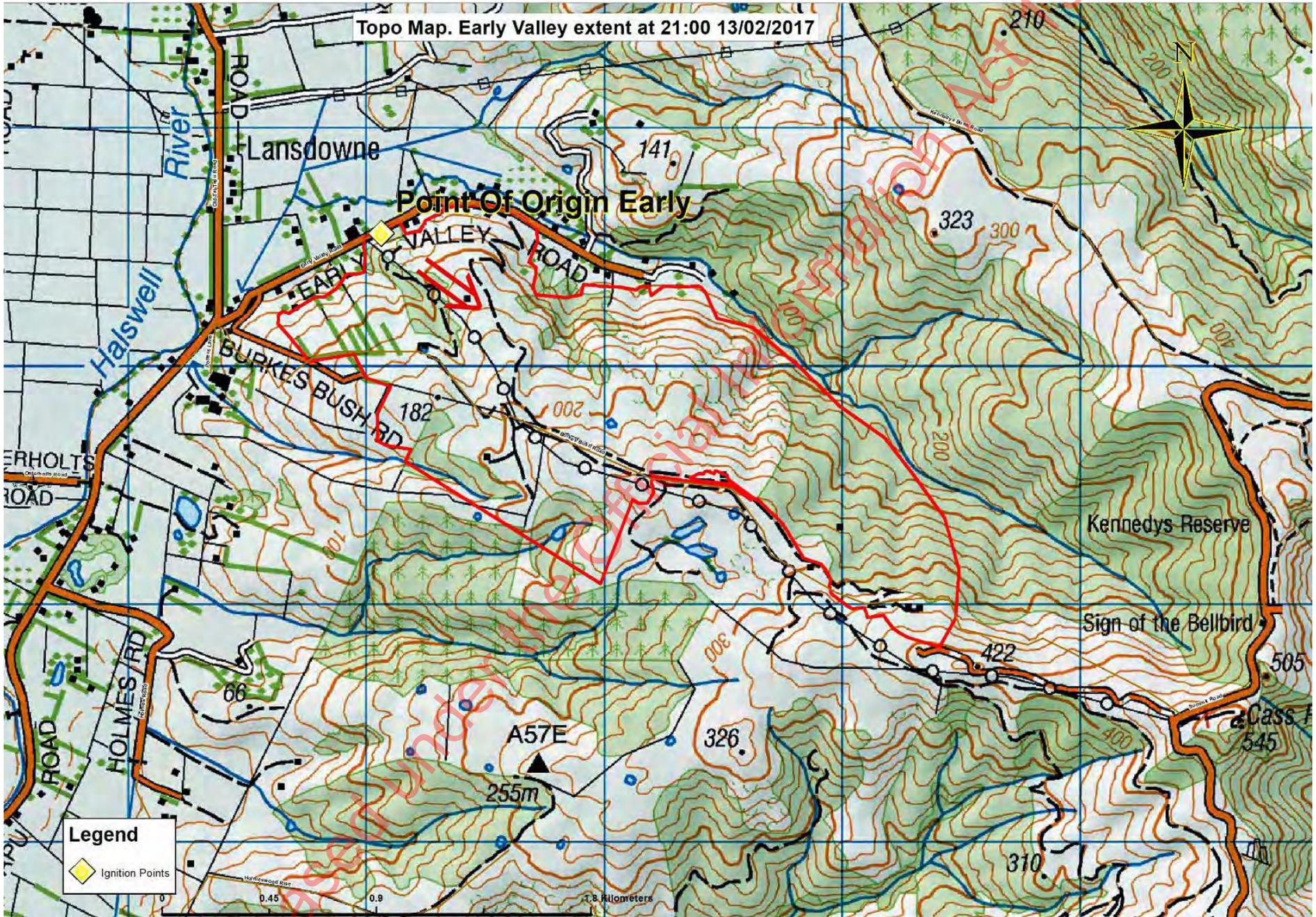
**Legend**

- Structure fires
- Early valley 0 21:00 13/02
- Ignition Points

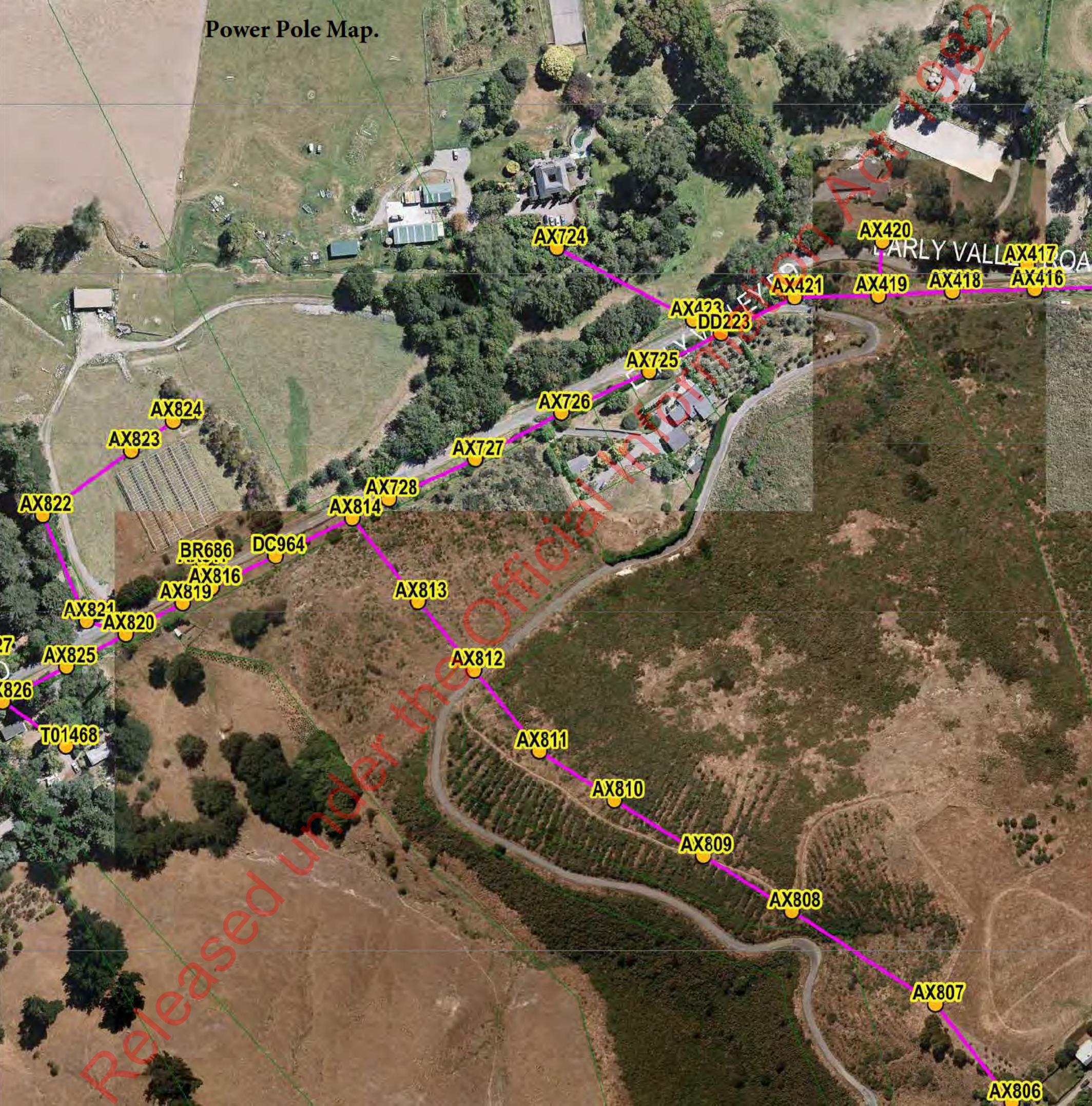
Fire run indicator

0 0.45 0.9 1.8 Kilometers

Early Valley Topographical Map



# Power Pole Map.



Appendix 2 Fire Weather

1982

NRFA Regional Daily Observed Summary Table for Canterbury																
Canterbury																
Canterbury <span style="float: right;">Monday, 13 February 2017</span>																
STATION NAME	FOREST	SCRUB	GRASS	FFMC	DMC	DC	ISI	BUI	FWI	TEMP	RH	DIR	WSP	RN24	GC%	STAT
Hanmer	L	V	M	69	21	292	1.6	36	3.9	20.5	52	291	19	7.0	85	Aut
Balmoral	E	E	V	87	52	549	11.9	84	32.6	21.5	43	303	30	1.2	95	Aut
Lees Valley	M	V	M	74	32	253	1.6	49	4.7	17.5	46	001	15	3.2	65	Aut
Ashley	H	E	H	87	43	310	6.9	64	19.4	19.2	65	191	18	0.4	80	Aut
Oxford	H	E	H	86	56	393	5.5	83	18.8	16.2	68	195	15	0.2	70	Aut
Gleanaan Station	L	V	M	61	16	154	1.7	25	3.1	16.8	59	261	27	14.0	60	Aut
Snowdon	L	L	L	45	16	222	0.1	27	0.1	12.8	80	-	10	7.5	50	Sub
Bottle Lake	H	E	M	87	68	704	4.4	109	18.5	18.6	63	217	9	0.0	75	Aut
Forest Plains	M	E	H	84	52	400	3.5	78	12.9	15.7	77	189	12	0.6	90	Aut
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Christchurch Aero	E	E	H	87	70	500	10.1	104	32.3	17.5	64	200	26	0.0	75	Aut
Hakaterere	M	E	M	73	35	327	4.5	55	13.0	17.5	44	333	37	7.4	70	Aut
Burnham	M	E	M	85	57	477	4.0	88	15.3	15.5	74	171	12	0.4	80	Aut
Mount Somers	L	L	L	48	10	145	0.2	18	0.2	12.3	82	032	11	5.6	40	Aut
Motukarara	H	E	H	86	58	462	5.7	88	20.1	14.1	70	170	17	0.2	70	Aut

Private Weather Station. 193 Old Tai Tapu Road approximately 680m to the NW of the Specific Origin Area

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate	Precip. Accum.	Solar
3:30 PM	21.1 °C	12.5 °C	58 %	SW	1.6 kph	6.4 kph	985.7 hPa	0 mm	0.3 mm	793 w/m <sup>2</sup>
3:40 PM	21.4 °C	12.2 °C	56 %	SW	1.6 kph	6.4 kph	985.7 hPa	0 mm	0.3 mm	171 w/m <sup>2</sup>
3:50 PM	21.6 °C	12.9 °C	58 %	North	0 kph	1.6 kph	986 hPa	0 mm	0.3 mm	134 w/m <sup>2</sup>
4:00 PM	21.2 °C	13.1 °C	60 %	North	0 kph	4.8 kph	985.7 hPa	0 mm	0.3 mm	260 w/m <sup>2</sup>
4:10 PM	21.6 °C	12.7 °C	57 %	North	0 kph	3.2 kph	985.7 hPa	0 mm	0.3 mm	919 w/m <sup>2</sup>
4:20 PM	22.5 °C	11.9 °C	51 %	North	0 kph	4.8 kph	985.3 hPa	0 mm	0.3 mm	199 w/m <sup>2</sup>
4:30 PM	22.7 °C	12.6 °C	53 %	ENE	6.4 kph	19.3 kph	985.3 hPa	0 mm	0.3 mm	149 w/m <sup>2</sup>
4:40 PM	23.1 °C	13.3 °C	54 %	East	4.8 kph	12.9 kph	985.3 hPa	0 mm	0.3 mm	694 w/m <sup>2</sup>
4:50 PM	23.3 °C	13.2 °C	53 %	ENE	3.2 kph	22.5 kph	985.7 hPa	0 mm	0.3 mm	694 w/m <sup>2</sup>
5:00 PM	23.2 °C	8.9 °C	40 %	North	3.2 kph	16.1 kph	985.7 hPa	0 mm	0.3 mm	631 w/m <sup>2</sup>
5:10 PM	24.1 °C	8.6 °C	37 %	WSW	1.6 kph	12.9 kph	985.7 hPa	0 mm	0.3 mm	72 w/m <sup>2</sup>
5:20 PM	23.7 °C	7.8 °C	36 %	WSW	3.2 kph	19.3 kph	985.7 hPa	0 mm	0.3 mm	615 w/m <sup>2</sup>
5:30 PM	24.2 °C	7.7 °C	35 %	WSW	1.6 kph	11.3 kph	986 hPa	0 mm	0.3 mm	564 w/m <sup>2</sup>
5:40 PM	23.6 °C	7.1 °C	35 %	North	3.2 kph	19.3 kph	986 hPa	0 mm	0.3 mm	513 w/m <sup>2</sup>
5:50 PM	23.4 °C	7.1 °C	35 %	North	3.2 kph	16.1 kph	986.3 hPa	0 mm	0.3 mm	482 w/m <sup>2</sup>
6:00 PM	23.7 °C	7.7 °C	36 %	WSW	1.6 kph	12.9 kph	986.3 hPa	0 mm	0.3 mm	457 w/m <sup>2</sup>

Appendix 3 Timeline



17:34 To 17:36  
Ignition time  
estimation

17:39:56  
First overcurrent  
event

17:43  
First  
111 call

17:47:14  
Second  
overcurrent event

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**Photo DCSN0100 Watlings PI – Fire location reference photo taken at 17:44**

**Still photo from CCTV footage at Halswell junction around 7km from the fire, showing smoke just visible at 17:42**

**Screen shot showing location of CCTV camera in relation to fire site**

**Photo DJI0063 – Early Valley Fire overview and initial and secondary runs.**

**Photo DJI0063 (zoom) – Early Valley Fire origin areas.**

**Photo IMG0037– Witness 1 phone log of first 111 call at 17:43**

**Photo 2746 Witness 1 – Fire location reference photo taken at 17:46**

**Photo 2748 Witness 1 – Fire location reference photo taken at 17:48**

**IMG OMG9 – Fire location reference image of Pole AX728 taken from OMG video at 17:51 (note fuse has ruptured)**

**IMG OMG10 – Fire location reference image of Pole AX728 taken from OMG video at 17:51, showing Specific Origin Area.**

**IMG OMG11 – Fire location reference image of Pole AX728 taken from OMG video at 17:51.**

**IMG OMG12 – Fire location reference image just past Pole AX728 taken from OMG video at 17:51.**

**IMG OMG13 – Fire location reference image 30m past Pole AX728 taken from OMG video at 17:51.**

**IMG OMG14 – Fire location reference image 40m past Pole AX728 taken from OMG video at 17:51, shows fuel type and fire behaviour on the left flank.**

**IMG OMGA1 – Fire location reference image 2A of Pole AX728 taken from OMG video at 17:54**

**IMG OMGA2 – Fire location reference image 1A of Pole AX728 taken from OMG video at 17:54**

**Photo 3419– Lateral fire spread indicators to the right of pole AX728**

**Photo 7585– Backing fire spread indicators to the right and slightly above pole AX728**

**Photo 7601– Looking back down the right flank towards pole AX728**

**Photo 9426– Lateral fire direction indicators looking back down the left flank towards pole AX728**

**Photo 3453– Looking up the wind driven initial run flagging on the left flank.**

**Photo 9758– Investigation team working the Specific Origin Area.**

**Photo 2130031– Pole AX728, shows ruptured fuse. Note appendages hanging from fuse carrier and remains of fuse tube (orange) held in earth clamp**

**Photo 9779– Specific Origin Area, flagged. (Note pole AX728 had been replaced)**

**Revised Fire Behaviour 2020. Image 1)- Waypoints, measurements and slopes.**

**Revised Fire Behaviour 2020- Image 4- Photo 906 looking up run from ignition. Note terracing**

**Map 1 Revised Fire Behaviour 2020. Main runs, waypoint measurement locations and photo locations.**

**Revised Fire Behaviour 2020- Photo DCSN0100 Watlings PI – Fire location reference photo taken at 17:44**

**Revised Fire Behaviour 2020- Image 2- Recreate Photo “DCSN0100 Watlings PI – Fire location reference photo taken at 17:44”**

**Revised Fire Behaviour 2020- Photo DSCN0101 8 Watling’s- Fire run at 17.48**

**Revised Fire Behaviour 2020- Image 3- Recreate Photo “DSCN0101 8 Watling’s- Fire run at 17.48” (Photo 913)**

**Revised Fire Behaviour 2020- Photo 2748 Witness 1 – Fire location reference photo taken at 17:48 (Timestamp Spark Phone)**

**Revised Fire Behaviour 2020- Image 4- Recreate Photo “2748 Witness 1 – Fire location reference photo taken at 17:48” (Photo 903 cropped June 2020)**

**Revised Fire Behaviour 2020- Photo DSCN0102 8 Watlings 17.52.**

**Clamp Arc, new image 1 May 2020. Supplied by Orion.**

**Revised Fire Behaviour 2020- Fire climbing pole AX728.**

**Scenario 1b SCION Prometheus Run**

**Scion Map 1. All weather stations in the vicinity of the Early Valley Fire**

**Scion Map 2. Most relevant weather stations to this investigation. Data from these were used for the Prometheus modelling.**

**Weather Station locations and distance from Early Valley road ignition.**

**Motukarara Weather Station**

**Christchurch Aero Weather Station**

**Bottle Lake Weather Station**

**Lincoln Weather Station**

**Tai Tapu Weather Station**

**Burkes Bush Weather Station**

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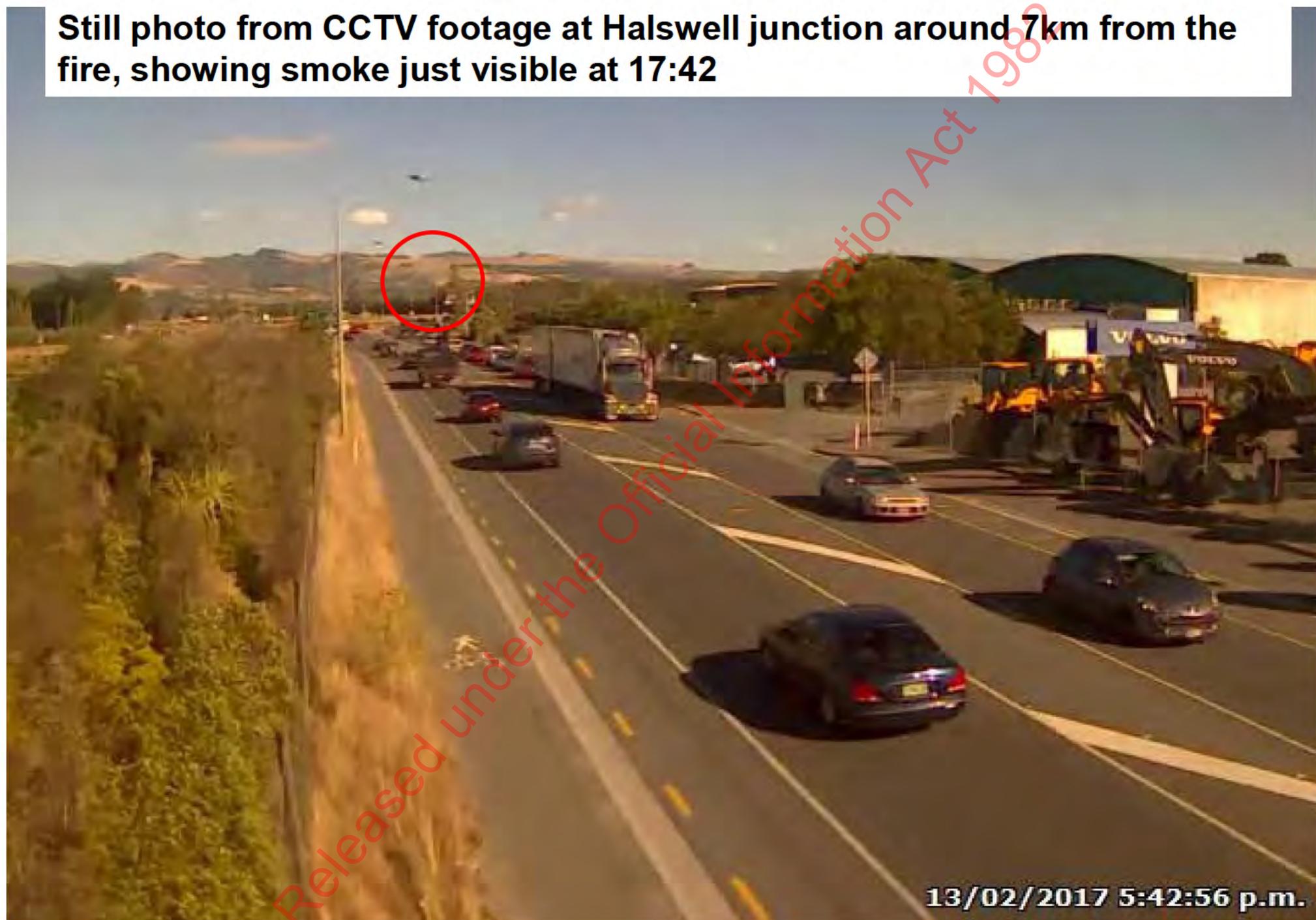
Photo DCSN0100 Watlings PI – Fire location reference photo taken at 17:44



170 M

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Still photo from CCTV footage at Halswell junction around 7km from the fire, showing smoke just visible at 17:42



13/02/2017 5:42:56 p.m.

# Screen shot showing location of CCTV camera in relation to fire site.

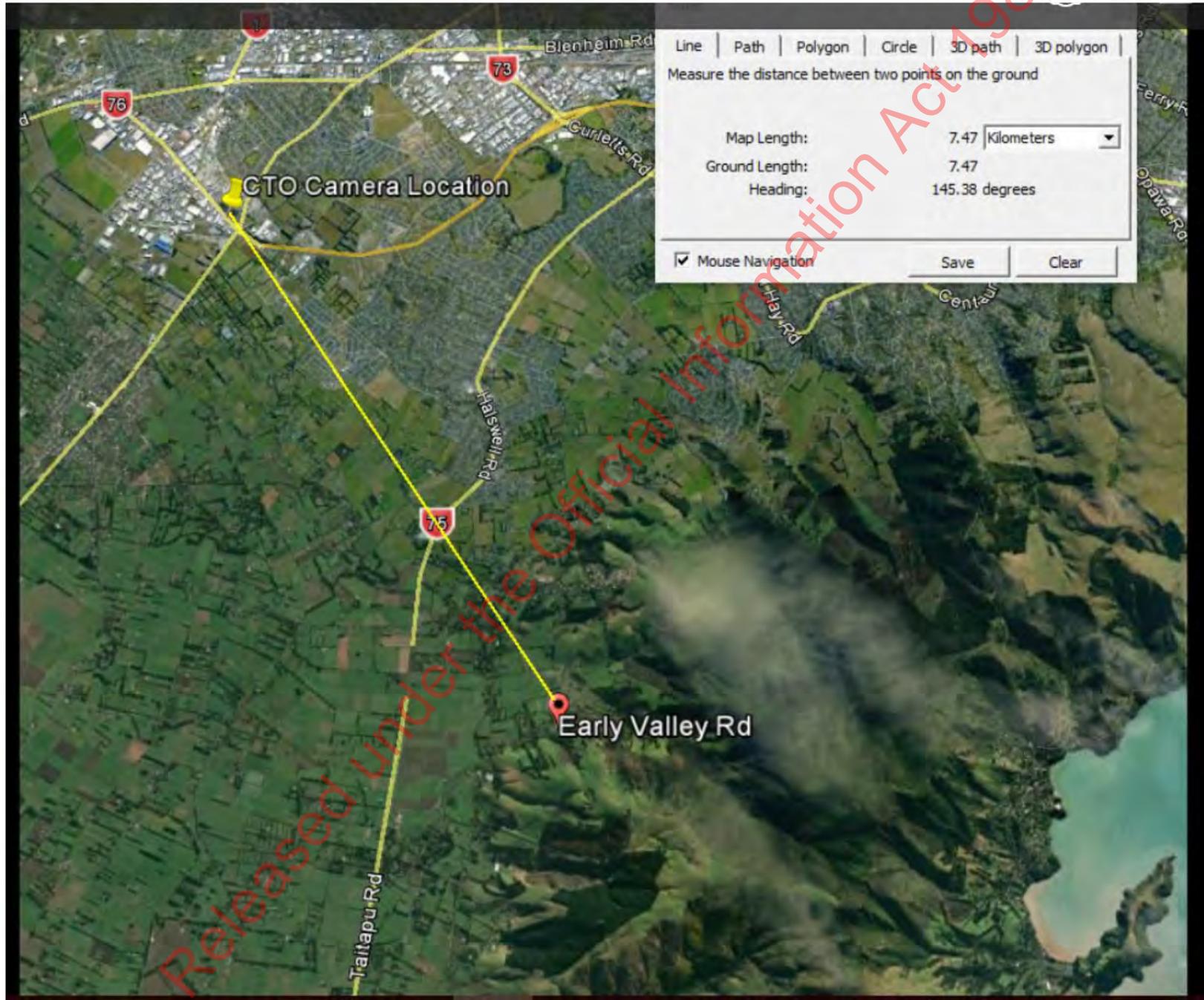
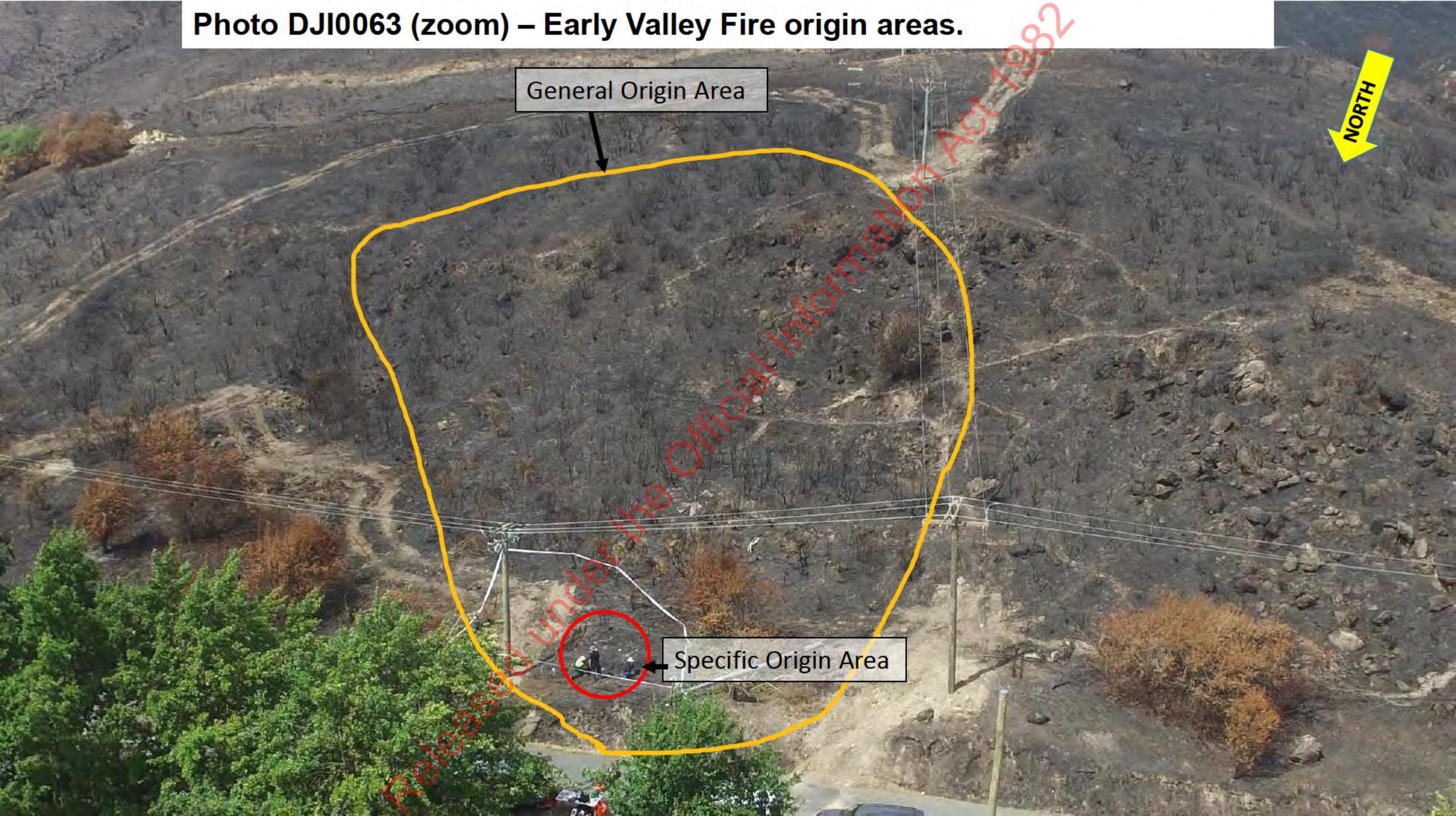


Photo DJI0063 – Early Valley Fire overview and initial and secondary runs.



Fire direction indicators.  
- Advancing   
- Flanking   
- Backing 

Photo DJI0063 (zoom) – Early Valley Fire origin areas.



General Origin Area

NORTH

Specific Origin Area

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Photo IMG0037– Witness 1 phone log of first 111 call at 17:43

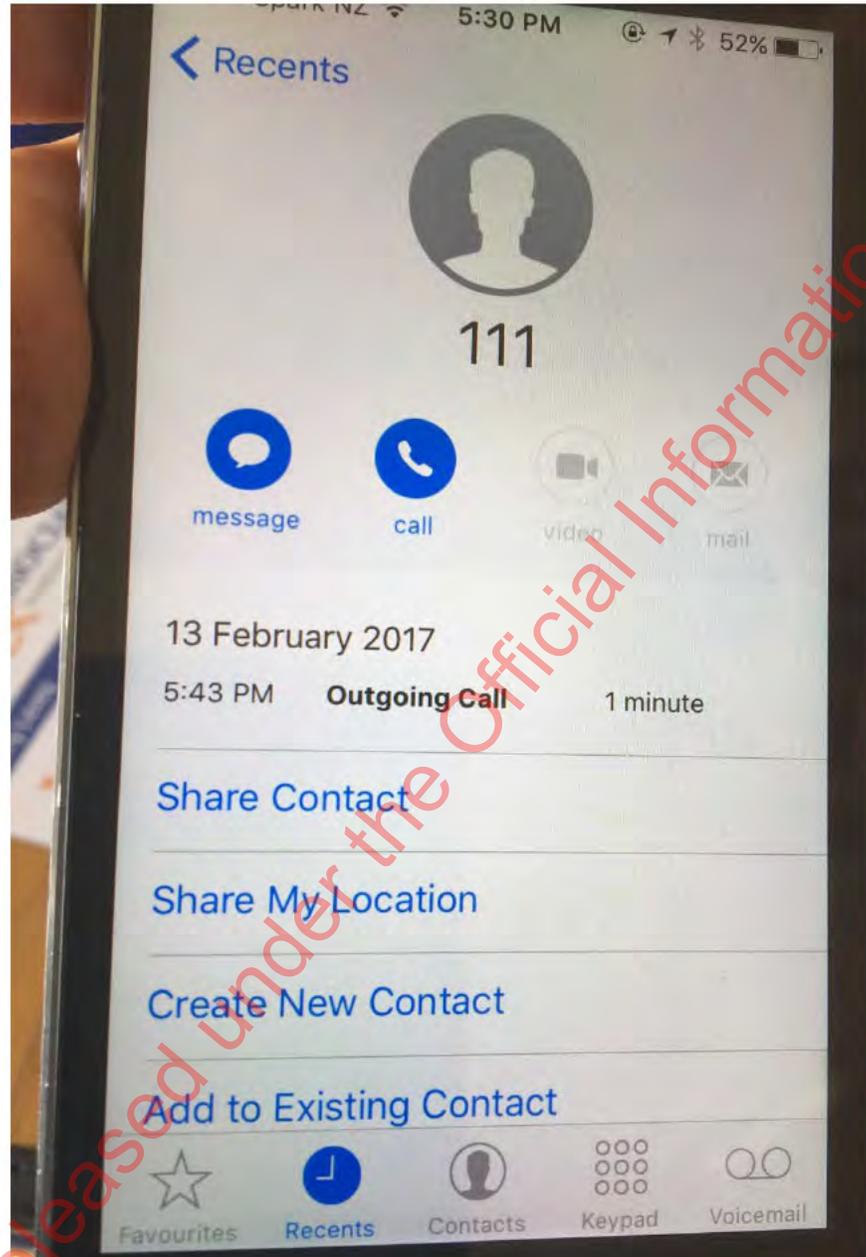


Photo 2746 Witness 1 – Fire location reference photo taken at 17:46



Photo 2748 Witness 1 – Fire location reference photo taken at 17:48



Area of Origin

**IMG OMG9 – Fire location reference image of Pole AX728 taken from OMG video at 17:51 (note fuse has ruptured)**



**IMG OMG10 – Fire location reference image of Pole AX728 taken from OMG video at 17:51, showing Specific Origin Area.**



**IMG OMG11 – Fire location reference image of Pole AX728 taken from  
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**IMG OMG12 – Fire location reference image just past Pole AX728 taken from OMG video at 17:51.**



**IMG OMG13 – Fire location reference image 30m past Pole AX728 taken from OMG video at 17:51.**



**IMG OMG14 – Fire location reference image 40m past Pole AX728 taken from OMG video at 17:51, shows fuel type and fire behaviour on the left flank.**



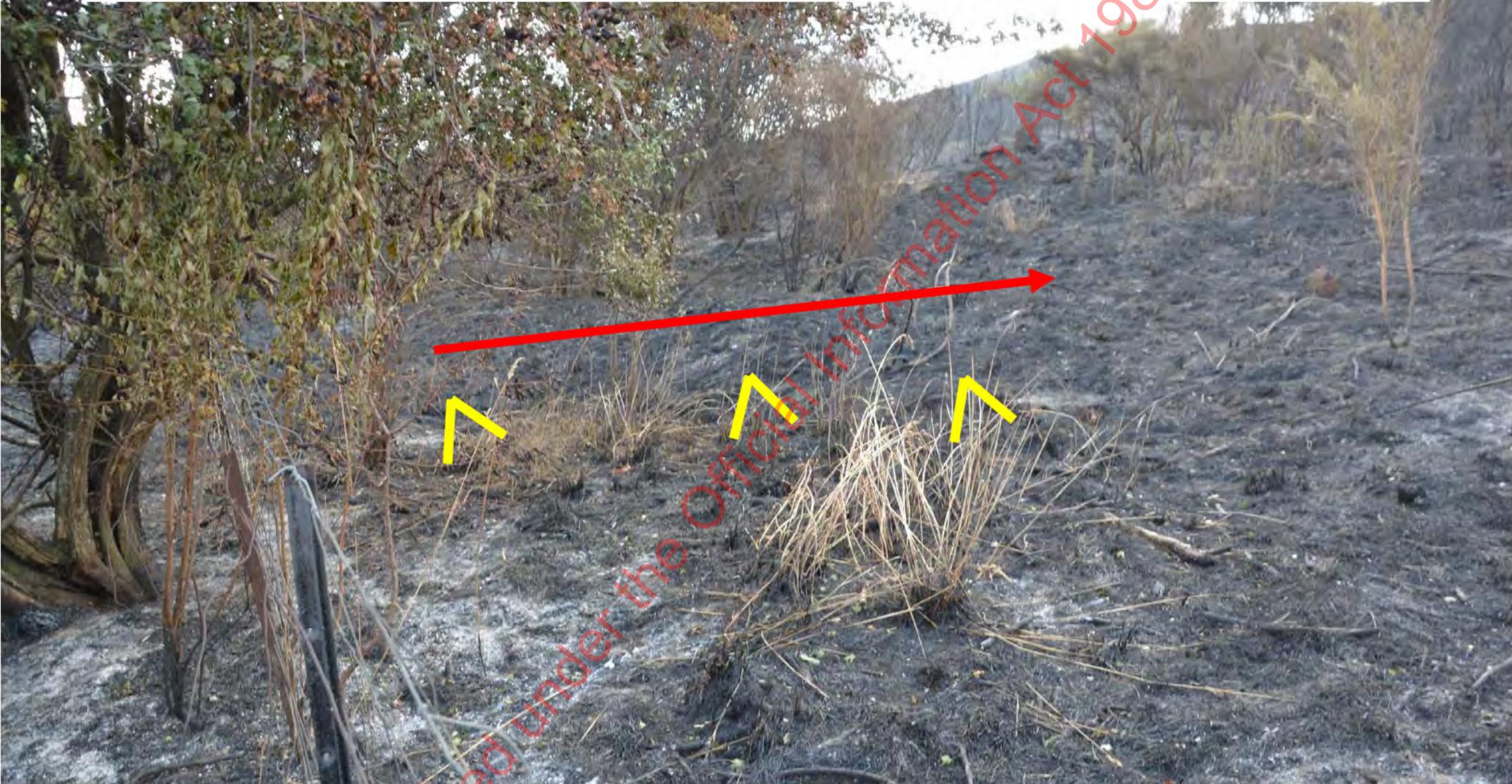
**IMG OMGA1 – Fire location reference image 2A of Pole AX728 taken from  
OMG video at 17:54**



**IMG OMGA2 – Fire location reference image 1A of Pole AX728 taken from  
OMG video at 17:54. Note fire burning up pole.**



Photo 3419– Lateral fire spread indicators to the right of pole AX728



Fire direction indicators.  
- Advancing   
- Flanking   
- Backing 

Photo 7585– Backing fire spread indicators to the right and slightly above pole AX728



Fire direction indicators.

- Advancing
- Flanking
- Backing

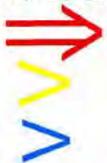
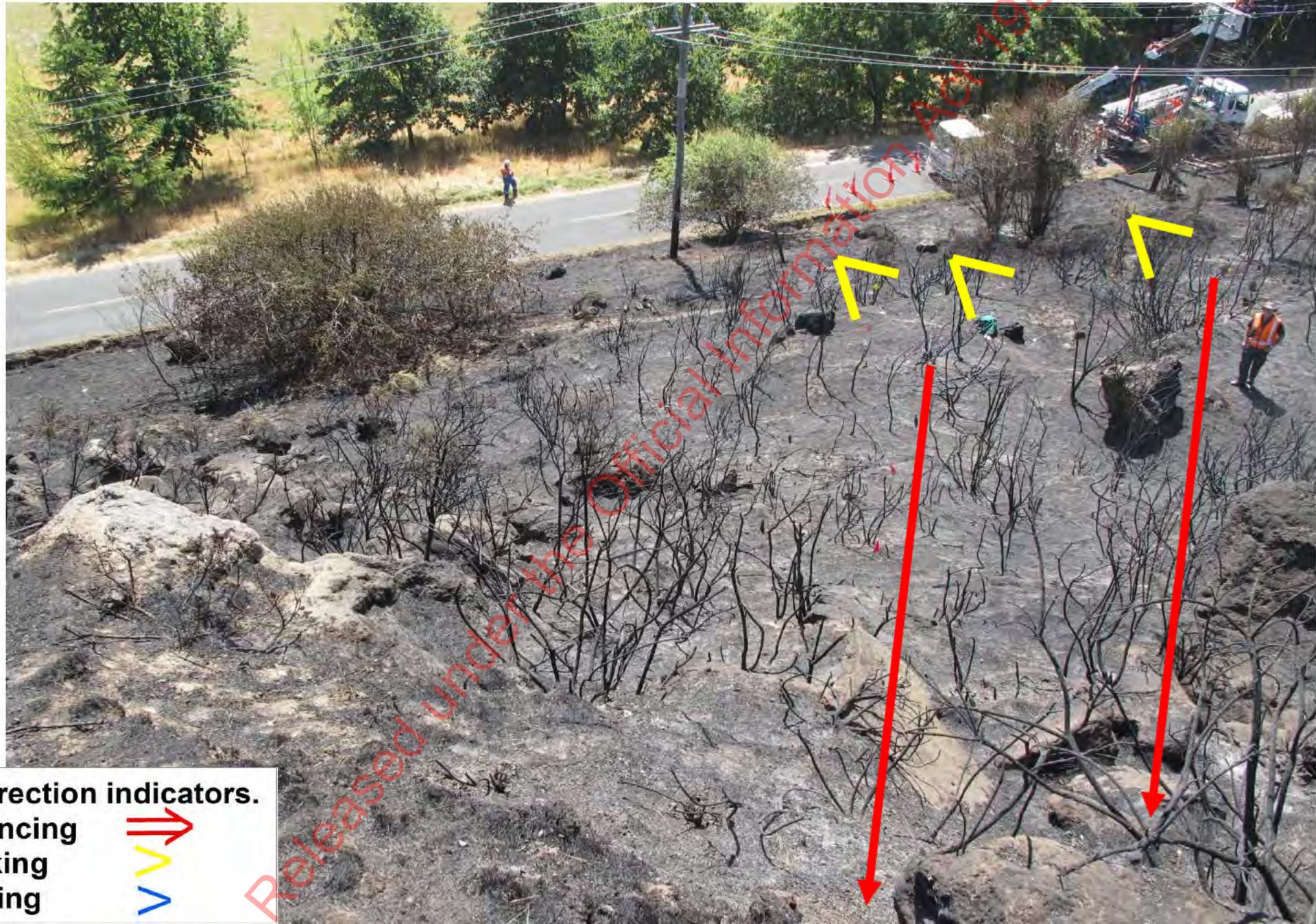


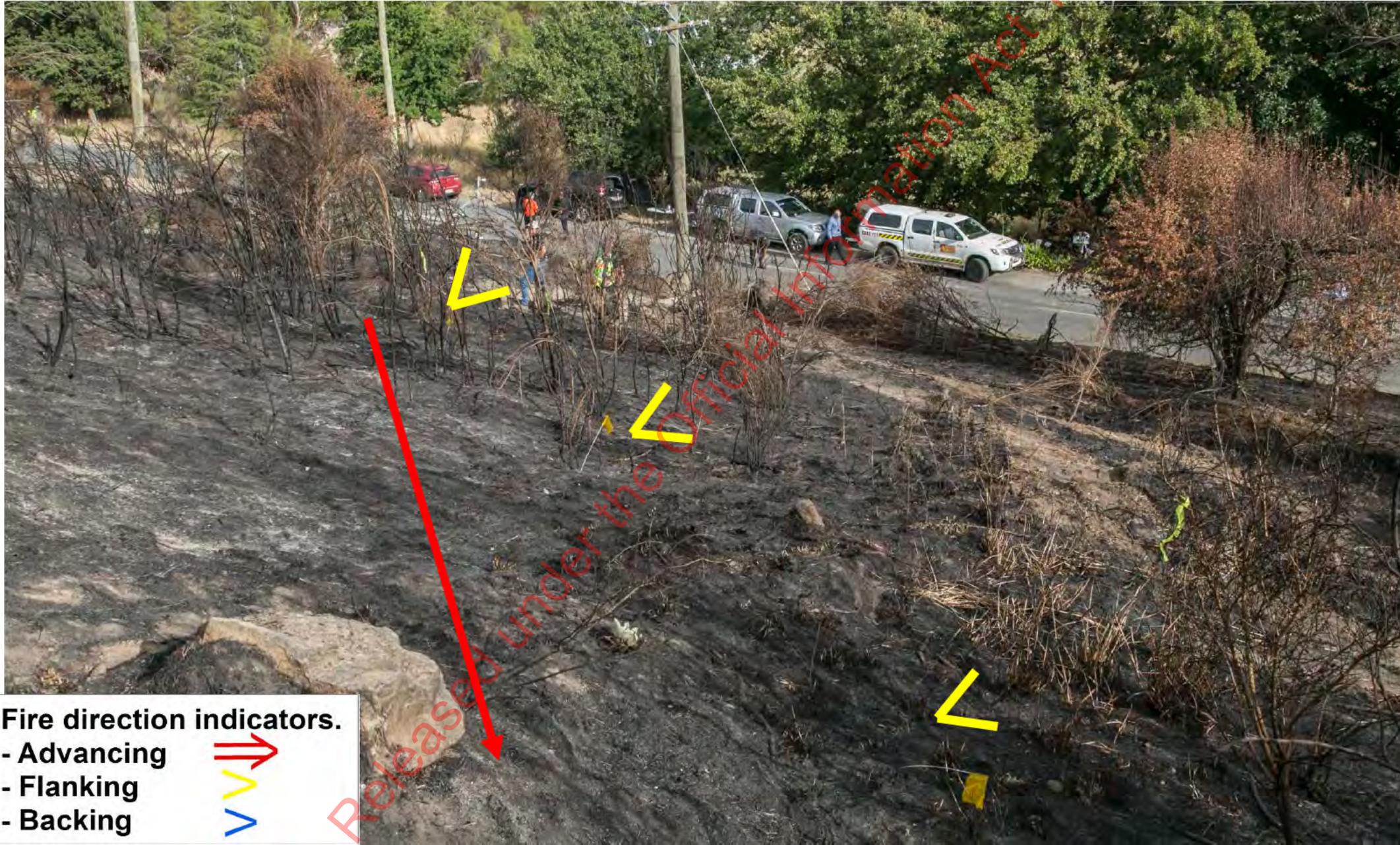
Photo 7601– Looking back down the right flank towards pole AX728



**Fire direction indicators.**

- Advancing 
- Flanking 
- Backing 

Photo 9426– Lateral fire direction indicators looking back down the left flank towards pole AX728



Fire direction indicators.

- Advancing
- Flanking
- Backing



Photo 3453— Looking up the wind driven initial run flagging on the left flank.



Photo 9758– Investigation team working the Specific Origin Area.



Photo 9779– Specific Origin Area, flagged. (Note pole AX728 had been replaced)



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Specific Origin Area

Photo 2130031–Pole AX728, shows ruptured fuse. Note appendages hanging from fuse carrier and remains of fuse tube (orange) held in earth clamp



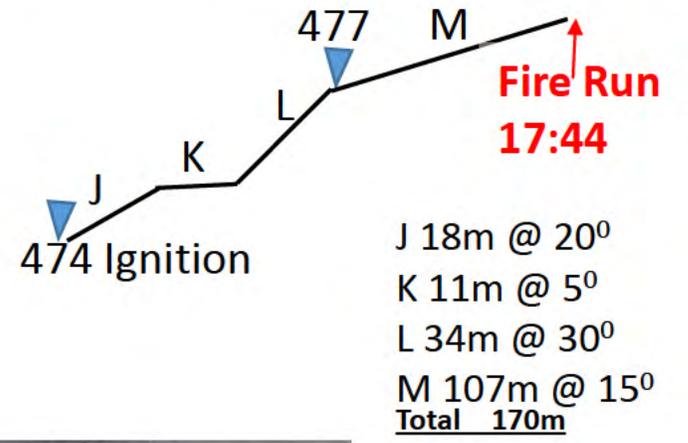
Revised Fire Behaviour 2020. Image 1)- Waypoints, measurements and slopes.

**Fire Run  
17:48**

- Key
- A- 105m @ 14°
  - B- 20m @ 10°
  - C- 54m @ 26°
  - D- 53m @ 27°
  - E- 46m @ 16°
  - F- 173m @ 20°
  - G- 52m @ 16°
  - H- 160m @ 12°
  - I- 49m @ 18°

**Fire Run  
17:44**

Profile from Ignition to Fire Run 17:44

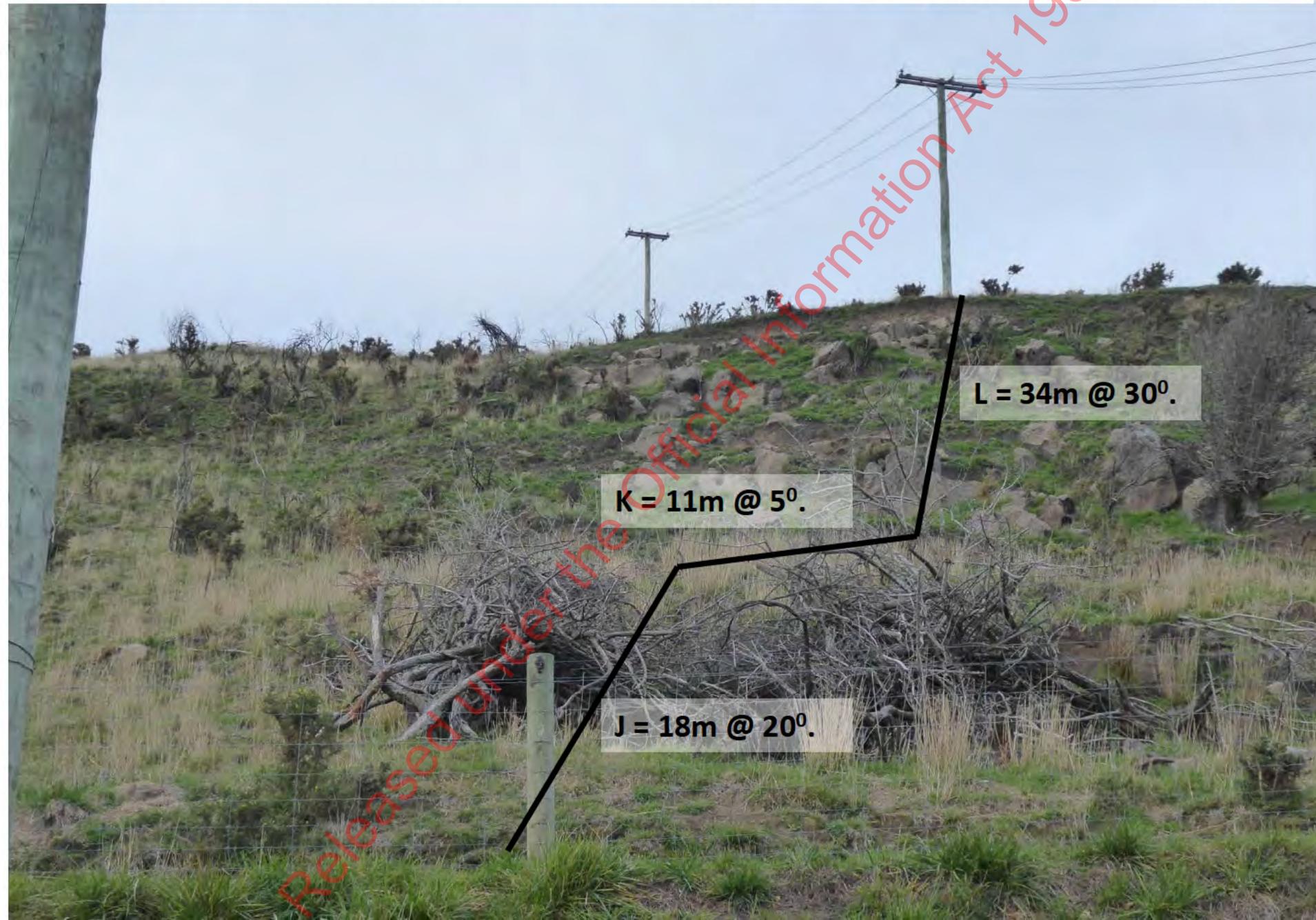


Fire Run 17:44 to  
Fire Run 17:48 "O"  
= 156m @ 12°

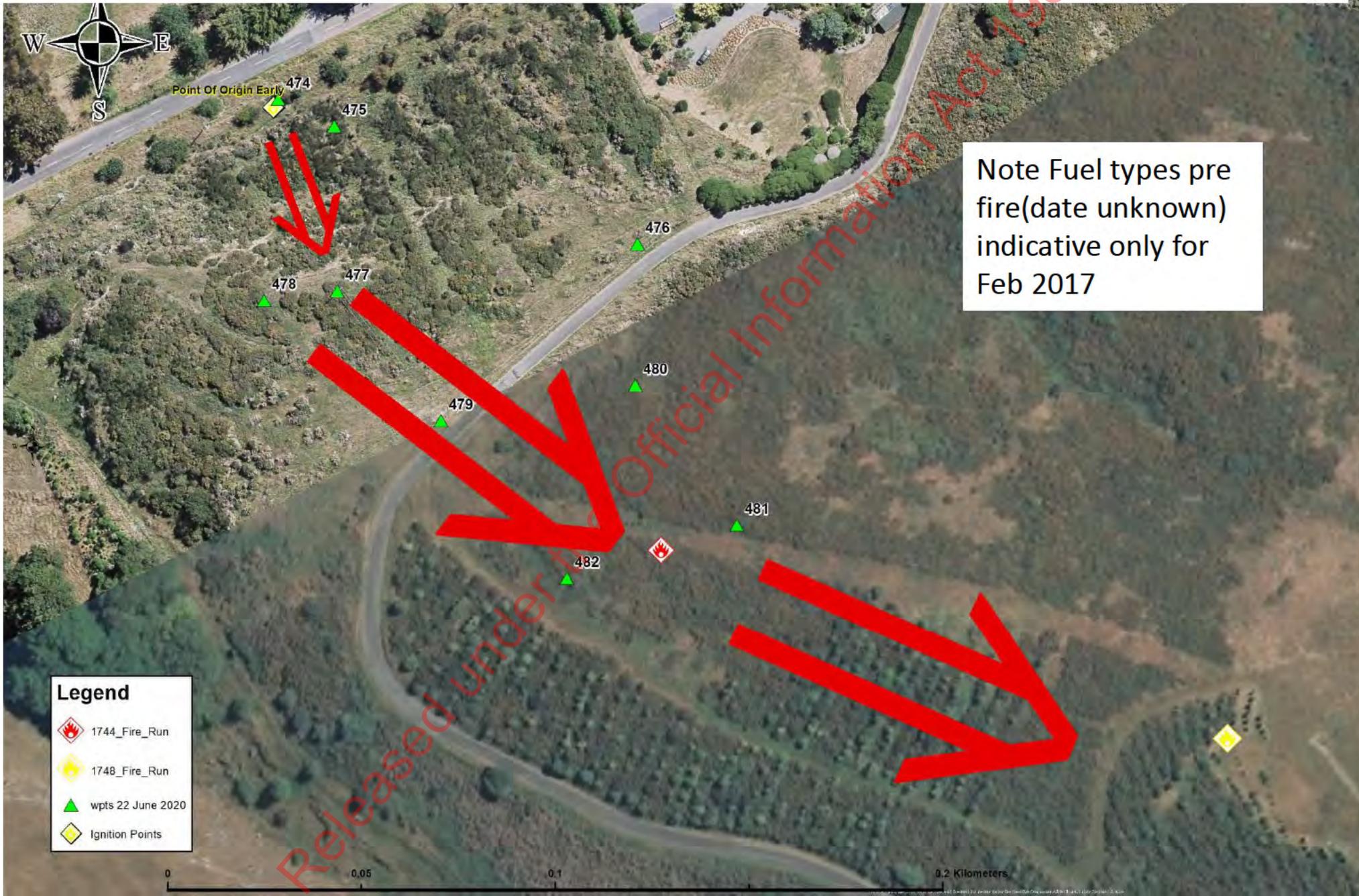


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Revised Fire Behaviour 2020- Image 4- Photo 906 looking up run from ignition. Note terracing



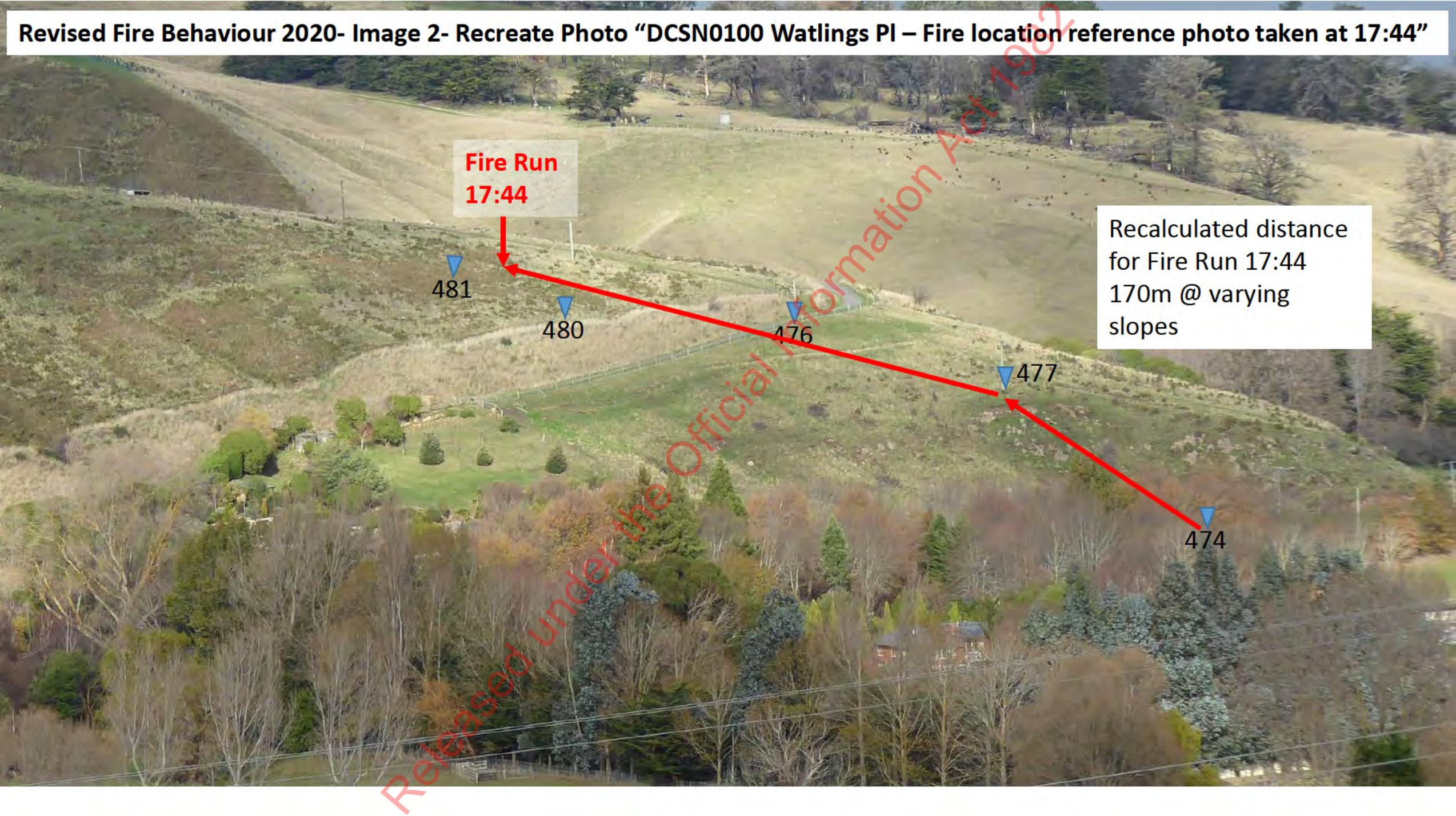
Map 1 Revised Fire Behaviour 2020. Main runs, waypoint measurement locations and photo locations.



Revised Fire Behaviour 2020- Photo DCSN0100 Watlings PI – Fire location reference photo taken at 17:44



Revised Fire Behaviour 2020- Image 2- Recreate Photo "DCSN0100 Watlings PI – Fire location reference photo taken at 17:44"



**Fire Run  
17:44**

481

480

476

477

474

Recalculated distance  
for Fire Run 17:44  
170m @ varying  
slopes

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Revised Fire Behaviour 2020- Photo DSCN0101 8 Watling's- Fire run at 17.48



Revised Fire Behaviour 2020- Image 3- Recreate Photo "DSCN0101 8 Watling's- Fire run at 17.48" (Photo 913)



**Fire Run  
17:48**

**Fire Run  
17:44**

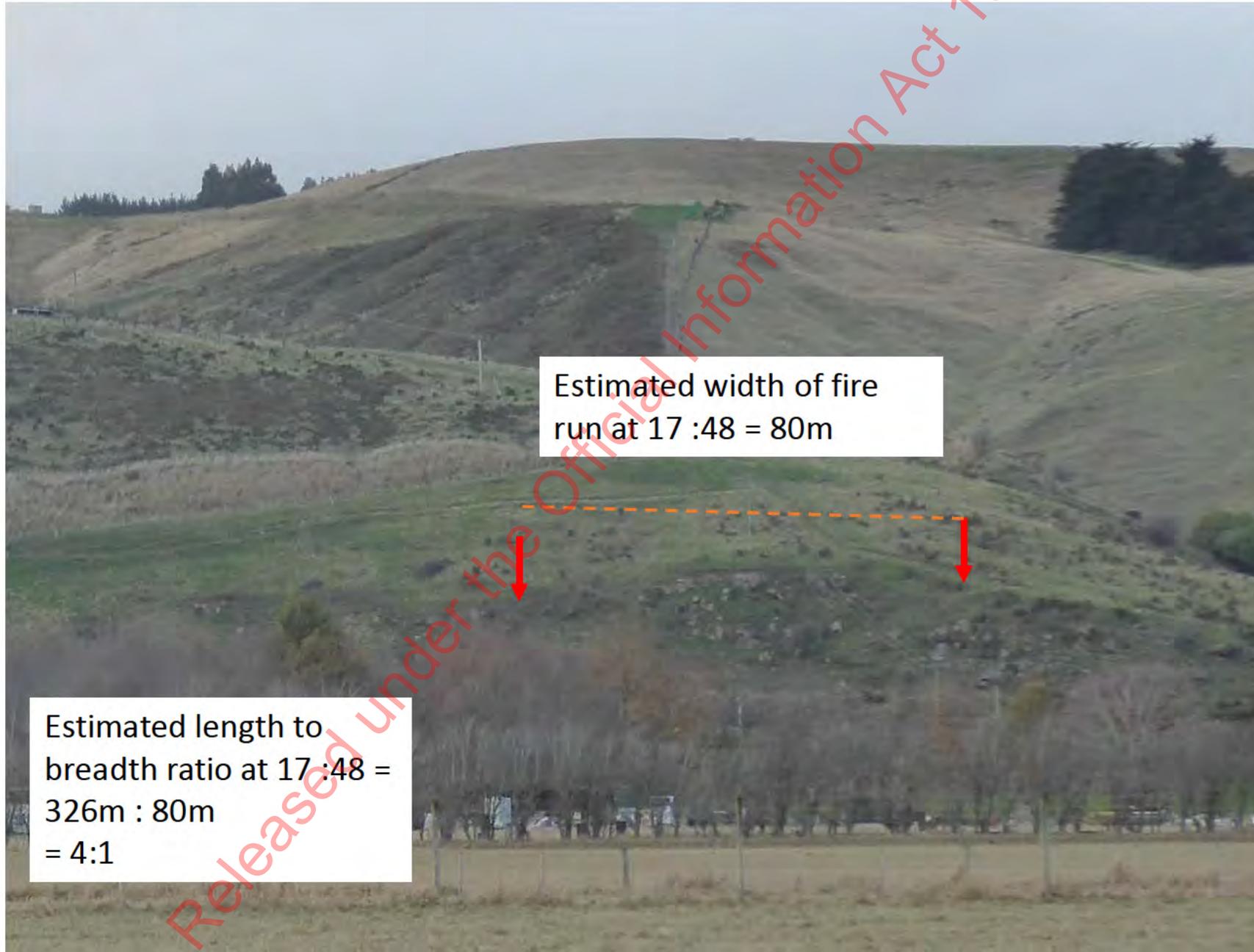
Recalculated distance  
for Fire Run 17:44 to  
17:48 156m @ 12°  
slope

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Revised Fire Behaviour 2020- Photo 2748 Witness 1 – Fire location reference photo taken at 17:48 (Timestamp Spark Phone)



Revised Fire Behaviour 2020- Image 4- Recreate Photo "2748 Witness 1 – Fire location reference photo taken at 17:48"  
(Photo 903 cropped June 2020)



Estimated width of fire  
run at 17 :48 = 80m

Estimated length to  
breadth ratio at 17 :48 =  
326m : 80m  
= 4:1

Revised Fire Behaviour 2020- Photo DSCN0102 8 Watlings 17.52.

Difficult to estimate distance in this photo but fire has travelled at least another 150m from previous photo at 17:48. Approx ROS 40/m/min



Clamp arc, new image 1 May 2020. Supplied by Orion.



Pic 2

Arcing causing melted aluminium and globules

## Revised Fire Behaviour 2020- Fire climbing pole AX728.



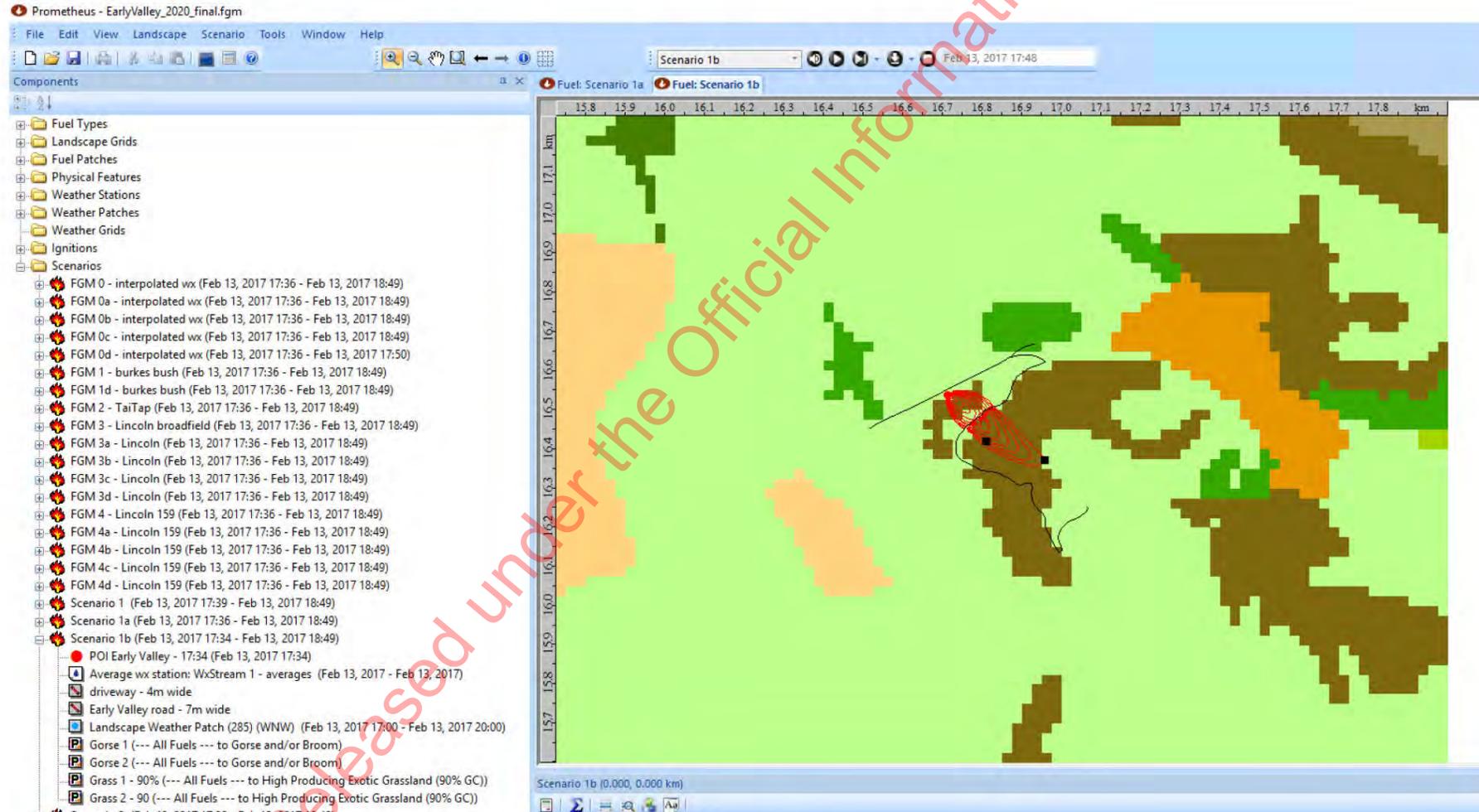
Fire has climbed the eastern side of pole AX728 thus making ionisation and smoke content much closer to the conductors

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## Scenario 1b: Track included; adjusted ffmc 91; average wx, wind 285; ignition time of 17:34

### Results:

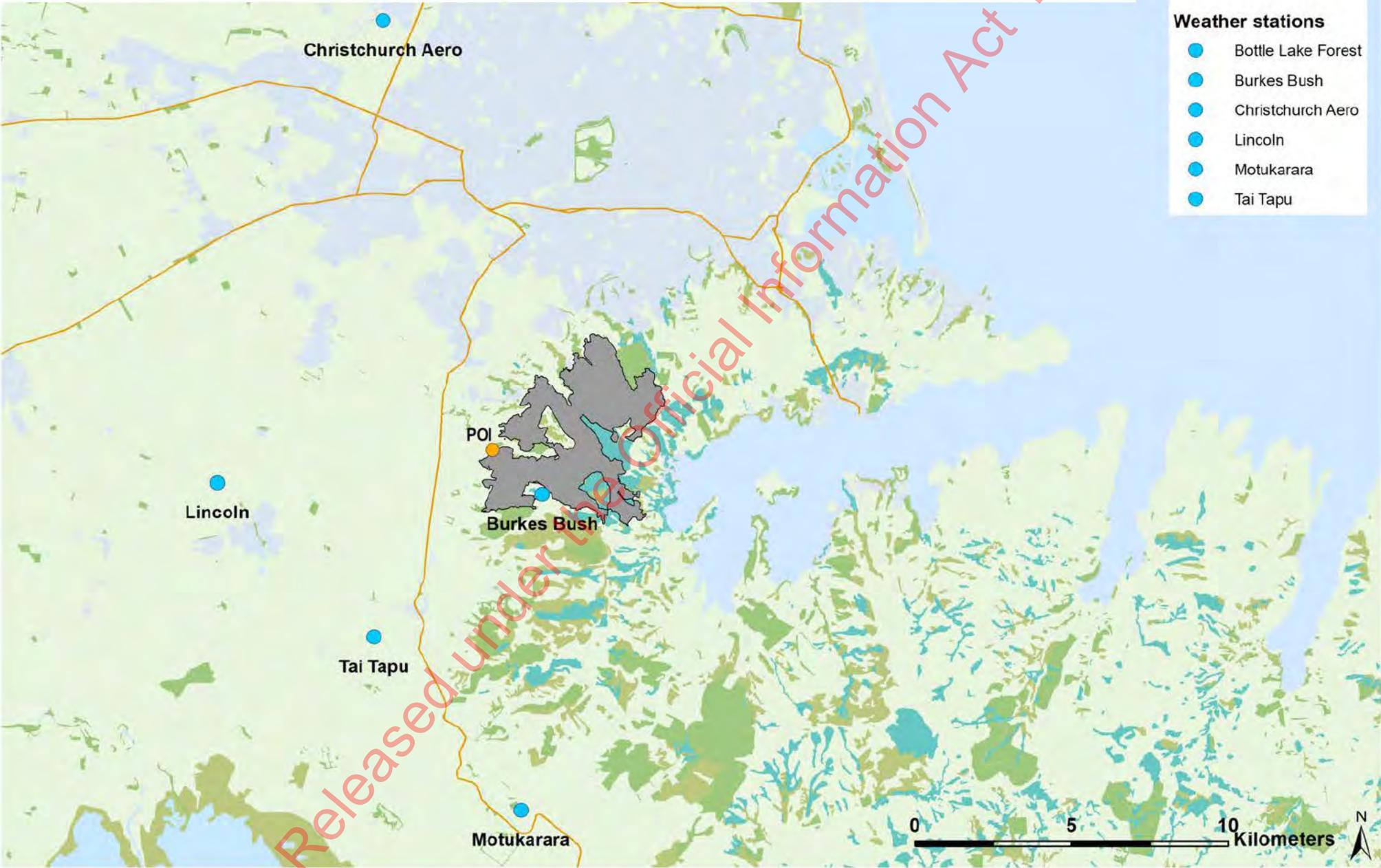
- The head of the fire reaches the first photo mark at 17:44
- The head of the fire reaches the second photo mark at 17:48
- Fire growth direction is a fit, timing is a fit



Scion Map 1. All weather stations in the vicinity of the Early Valley Fire



**Scion Map 2. Most relevant weather stations to this investigation. Data from these were used for the Prometheus modelling.**



## Weather Station locations and distance from Early Valley road ignition.

Station ID	Name	Source	Lat	Lon	DIST(km)
Bottle Lake Forest RAWS	Bottle Lake Forest	FWSYS	-43.47028	172.68222	18.3
Christchurch Aero SYNOP	Christchurch Aero	FWSYS	-43.493	172.537	14.2
Motukarara RAWS	Motukarara	FWSYS	-43.72111	172.59	11.6
Lincoln, Broadfield Ews	Lincoln	CLIFLO	-43.62622	172.4704	8.8
Diamond Harbour Ews	Diamond Harbour	CLIFLO	-43.63312	172.72808	12.1
Christchurch, Kyle St Ews	Christchurch	CLIFLO	-43.53074	172.60769	9.9
City Depot	City Depot	MetConnect	-43.565453	172.685214	10.3
CQ Breakwater	CQ Breakwater	MetConnect	-43.610418	172.733485	12.4
Inner Harbour J3	Inner Harbour J3	MetConnect	-43.606128	172.719207	11.3
Sugarloaf Aws	Sugarloaf	MetConnect	-43.60356	172.649527	5.8
Lincoln ICANTERB322	Lincoln 322	Wunderground	-43.643	172.497	7.2
Lincoln ICANTERB159	Lincoln 159	Wunderground	-43.654	172.502	7.5
Burkes Bush ISELWYN9	Burkes Bush 9	Wunderground	-43.63	172.599	2.1
Lincoln ILINCOLN50	Lincoln 50	Wunderground	-43.641	172.495	7.3
Lincoln ICANTERB24	Lincoln 24	Wunderground	-43.637	172.492	7.4
Tai Tapu ICANTERB317	Tai Tapu 317	Wunderground	-43.671	172.532	7.1
Westmorland ICANTERB409	Westmorland 409	Wunderground	-43.578	172.607	4.9
Cashmere ICANTERB318	Cashmere 318	Wunderground	-43.572	172.625	6.2
Cashmere ICASHMER2	Cashmere 2	Wunderground	-43.575	172.638	6.7
Huntsbury ICANTERB224	Huntsbury 224	Wunderground	-43.568	172.651	7.9
Port Hills ICANTERB238	Port Hills 238	Wunderground	-43.587	172.686	9.2
Huntsbury ICANTERB406	Huntsbury 406	Wunderground	-43.575	172.651	7.4



### Christchurch Aero Weather Station

Date & Time (NZDT/ST)	Hourly (NZDT/ST)	Time (NZDT/ST)	Air Temp (°C)	RH (%)	Wind Direction (°)	Wind Direction (Cardinal)	Wind Speed (km/h)	Hourly Rainfall (mm)	Hourly FFMC
13/02/2017 06:00	13/02/2017	6	11.0	96.0	45		5.6	0.0	
13/02/2017 07:00	13/02/2017	7	10.0	97.0	248		5.6	0.0	
13/02/2017 08:00	13/02/2017	8	12.0	94.0	338		1.9	0.0	
13/02/2017 09:00	13/02/2017	9	13.0	90.0	225		14.8	0.0	
13/02/2017 10:00	13/02/2017	10	15.0	79.0	225		22.2	0.0	
13/02/2017 11:00	13/02/2017	11	18.0	64.0	225		33.3	0.0	
13/02/2017 12:00	13/02/2017	12	18.0	68.0	203		35.2	0.0	
13/02/2017 13:00	13/02/2017	13	18.0	64.0	203		25.9	0.0	
13/02/2017 14:00	13/02/2017	14	19.0	57.0	225		14.8	0.0	
13/02/2017 15:00	13/02/2017	15	21.0	48.0	225		9.3	0.0	
13/02/2017 16:00	13/02/2017	16	24.0	32.0	270		13.0	0.0	
13/02/2017 17:00	13/02/2017	17	24.0	26.0	293		31.5	0.0	
13/02/2017 18:00	13/02/2017	18	23.0	28.0	293		33.3	0.0	
13/02/2017 19:00	13/02/2017	19	21.0	32.0	293		29.6	0.0	
13/02/2017 20:00	13/02/2017	20	20.0	37.0	293		27.8	0.0	
13/02/2017 21:00	13/02/2017	21	18.0	42.0	270		20.4	0.0	
13/02/2017 22:00	13/02/2017	22	18.0	34.0	293		24.1	0.0	

# Bottle Lake Weather Station

Wx Station:		Bottle Lake								Yes
	10/02/2017 00:00	[Choose date and time (in NZDT/ST) for start of Prometheus Export]								
	NZDT	[Choose if times in Prometheus are in NZST or NZDT ]								
Date & Time (NZST)	Date & Time (NZDT/ST)	Hourly (NZDT/ST)	Time (NZDT/ST)	Air Temp (°C)	RH (%)	Wind Direction (°)	Wind Speed (km/h)	Hourly Rainfall (mm)	Daily Rainfall (from hourly) (mm)	Cumulative Rainfall (mm)
12/02/2017 23:00	13/02/2017 00:00	13/02/2017	0	13.7	82.0	290	3.2	0.0		
13/02/2017 00:00	13/02/2017 01:00	13/02/2017	1	13.0	81.0	349	4.7	0.0		
13/02/2017 01:00	13/02/2017 02:00	13/02/2017	2	12.2	84.0	352	5.8	0.0		
13/02/2017 02:00	13/02/2017 03:00	13/02/2017	3	11.1	88.0	256	2.5	0.0		
13/02/2017 03:00	13/02/2017 04:00	13/02/2017	4	10.9	90.0	348	1.4	0.0		
13/02/2017 04:00	13/02/2017 05:00	13/02/2017	5	11.2	91.0	252	1.8	0.0		
13/02/2017 05:00	13/02/2017 06:00	13/02/2017	6	10.4	93.0	31	2.2	0.0		
13/02/2017 06:00	13/02/2017 07:00	13/02/2017	7	10.4	94.0	306	1.4	0.0		
13/02/2017 07:00	13/02/2017 08:00	13/02/2017	8	12.1	93.0	216	0.4	0.0		
13/02/2017 08:00	13/02/2017 09:00	13/02/2017	9	15.0	86.0	259	4.7	0.0		
13/02/2017 09:00	13/02/2017 10:00	13/02/2017	10	16.6	73.0	228	6.1	0.0		
13/02/2017 10:00	13/02/2017 11:00	13/02/2017	11	17.9	66.0	266	14.0	0.0		
13/02/2017 11:00	13/02/2017 12:00	13/02/2017	12	17.6	68.0	253	13.7	0.0		
13/02/2017 12:00	13/02/2017 13:00	13/02/2017	13	18.6	63.0	217	8.6	0.0	0.0	
13/02/2017 13:00	13/02/2017 14:00	13/02/2017	14	19.1	59.0	242	7.6	0.0		
13/02/2017 14:00	13/02/2017 15:00	13/02/2017	15	21.3	50.0	314	5.8	0.0		
13/02/2017 15:00	13/02/2017 16:00	13/02/2017	16	18.1	68.0	75	15.1	0.0		
13/02/2017 16:00	13/02/2017 17:00	13/02/2017	17	24.2	29.0	290	14.0	0.0		
13/02/2017 17:00	13/02/2017 18:00	13/02/2017	18	19.4	58.0	168	14.8	0.0		
13/02/2017 18:00	13/02/2017 19:00	13/02/2017	19	18.1	65.0	138	9.7	0.0		
13/02/2017 19:00	13/02/2017 20:00	13/02/2017	20	20.1	38.0	274	11.2	0.0		

# Lincoln Weather Station

WEATHE UNDERGROUND - PUBLIC

Weather Station ID: ICANTERB159

Station Name: Lincoln

Latitude / Longitude: S 43 ° 39 ' 13 ", E 172 ° 30 ' 8 "

Elevation: 20

-43.654 172.502 > 6 m

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Precip. Accum.
4:07 PM	20.3 °C	12.8 °C	62%	North	4.7 kph	6.4 kph	986.3 hPa	0 mm	0.5 mm
4:13 PM	21.2 °C	12.9 °C	59%	NW	4.7 kph	9.7 kph	986.3 hPa	0 mm	0.5 mm
4:18 PM	21.6 °C	12.4 °C	56%	North	1.4 kph	6.4 kph	986.3 hPa	0 mm	0.5 mm
4:23 PM	22 °C	11.7 °C	52%	North	6.4 kph	12.9 kph	986.3 hPa	0 mm	0.5 mm
4:28 PM	22.8 °C	10.9 °C	47%	NE	4.7 kph	12.9 kph	986.3 hPa	0 mm	0.5 mm
4:33 PM	23.3 °C	10.7 °C	45%	NNE	4.7 kph	6.4 kph	986.3 hPa	0 mm	0.5 mm
4:38 PM	23.7 °C	10 °C	42%	North	7.9 kph	12.9 kph	986.3 hPa	0 mm	0.5 mm
4:43 PM	23.9 °C	10.6 °C	43%	NW	1.4 kph	12.9 kph	986.3 hPa	0 mm	0.5 mm
4:48 PM	24.3 °C	10.9 °C	43%	NW	3.2 kph	9.7 kph	986.3 hPa	0 mm	0.5 mm
4:53 PM	24.5 °C	7.6 °C	34%	WNW	20.9 kph	33.8 kph	986.3 hPa	0 mm	0.5 mm
4:58 PM	24.3 °C	6.1 °C	31%	NW	14.3 kph	33.8 kph	986.3 hPa	0 mm	0.5 mm
5:03 PM	23.8 °C	6.1 °C	32%	West	14.3 kph	35.4 kph	986.3 hPa	0 mm	0.5 mm
5:08 PM	23.7 °C	5.6 °C	31%	North	35.2 kph	35.4 kph	986.3 hPa	0 mm	0.5 mm
5:13 PM	23.8 °C	6.1 °C	32%	NNE	6.4 kph	29 kph	986.3 hPa	0 mm	0.5 mm
5:18 PM	23.7 °C	6.5 °C	33%	WNW	27.4 kph	27.4 kph	986.3 hPa	0 mm	0.5 mm
5:23 PM	23.7 °C	6 °C	32%	West	16.3 kph	25.7 kph	986.3 hPa	0 mm	0.5 mm
5:28 PM	23.7 °C	6 °C	32%	NW	30.6 kph	40.2 kph	986.3 hPa	0 mm	0.5 mm
5:33 PM	23.7 °C	6 °C	32%	North	16.3 kph	37 kph	986.7 hPa	0 mm	0.5 mm
5:38 PM	23.7 °C	6.5 °C	33%	North	7.9 kph	20.9 kph	986.7 hPa	0 mm	0.5 mm
5:43 PM	23.8 °C	6.6 °C	33%	North	14.3 kph	17.7 kph	986.7 hPa	0 mm	0.5 mm
5:48 PM	23.7 °C	6.9 °C	34%	NE	6.4 kph	14.5 kph	986.7 hPa	0 mm	0.5 mm
5:53 PM	23.4 °C	6.6 °C	34%	NW	14.3 kph	24.1 kph	986.7 hPa	0 mm	0.5 mm
5:58 PM	23.2 °C	6.9 °C	35%	NW	13 kph	20.9 kph	987 hPa	0 mm	0.5 mm
6:04 PM	22.9 °C	6.2 °C	34%	North	7.9 kph	32.2 kph	987 hPa	0 mm	0.5 mm
6:09 PM	22.7 °C	6.4 °C	35%	SSW	4.7 kph	38.6 kph	987 hPa	0 mm	0.5 mm
6:14 PM	22.7 °C	6.9 °C	36%	North	22.7 kph	40.2 kph	987 hPa	0 mm	0.5 mm
6:19 PM	22.4 °C	6.2 °C	35%	NW	13 kph	27.4 kph	987.4 hPa	0 mm	0.5 mm

# Tai Tapu Weather Station

## WEATHER UNDERGROUND

Weather Station ID: ICANTERB317

Station Name: Tai Tapu

Latitude / Longitude: S 43 ° 40 ' 15 " , E 172 ° 31 ' 56 "

Elevation: 30

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	P
4:46 PM	24.2 °C	10.8 °C	43%	West	0 kph	1.6 kph	986.3 hPa	0 mm	0
4:51 PM	24.4 °C	13 °C	49%	West	0 kph	3.2 kph	986.3 hPa	0 mm	0
4:56 PM	24.6 °C	12.5 °C	47%	NW	3.2 kph	9.7 kph	986.3 hPa	0 mm	0
5:01 PM	24.6 °C	8.9 °C	37%	SW	14.3 kph	14.5 kph	986.3 hPa	0 mm	0
5:06 PM	24.4 °C	6.6 °C	32%	NW	7.9 kph	29 kph	986.3 hPa	0 mm	0
5:11 PM	24.2 °C	6.9 °C	33%	NW	0 kph	19.3 kph	986.3 hPa	0 mm	0
5:16 PM	24.3 °C	7.4 °C	34%	NNW	13 kph	25.7 kph	986.3 hPa	0 mm	0
5:21 PM	23.9 °C	6.2 °C	32%	NW	13 kph	29 kph	986.3 hPa	0 mm	0
5:26 PM	23.8 °C	7 °C	34%	NW	13 kph	19.3 kph	986.3 hPa	0 mm	0
5:31 PM	23.7 °C	6.5 °C	33%	NNW	14.3 kph	19.3 kph	986.3 hPa	0 mm	0
5:36 PM	23.7 °C	6.5 °C	33%	North	16.3 kph	17.7 kph	986.7 hPa	0 mm	0
5:41 PM	23.6 °C	7.7 °C	36%	North	14.3 kph	17.7 kph	986.7 hPa	0 mm	0
5:46 PM	23.6 °C	7.2 °C	35%	NNW	3.2 kph	11.3 kph	986.7 hPa	0 mm	0
5:51 PM	23.6 °C	7.7 °C	36%	NNE	3.2 kph	12.9 kph	986.7 hPa	0 mm	0
5:56 PM	23.6 °C	8.1 °C	37%	NW	1.4 kph	11.3 kph	986.7 hPa	0 mm	0
6:01 PM	23.6 °C	7.7 °C	36%	NW	16.3 kph	19.3 kph	986.7 hPa	0 mm	0
6:06 PM	23.2 °C	7.3 °C	36%	NW	11.1 kph	20.9 kph	986.7 hPa	0 mm	0
6:11 PM	22.8 °C	6.9 °C	36%	North	7.9 kph	22.5 kph	987 hPa	0 mm	0
6:16 PM	22.4 °C	7 °C	37%	North	11.1 kph	24.1 kph	987 hPa	0 mm	0
6:21 PM	22.3 °C	6.9 °C	37%	North	11.1 kph	25.7 kph	987.4 hPa	0 mm	0
6:26 PM	22.1 °C	7.5 °C	39%	North	11.1 kph	17.7 kph	987.4 hPa	0 mm	0
6:31 PM	21.7 °C	6.8 °C	38%	North	4.7 kph	24.1 kph	987.4 hPa	0 mm	0
6:36 PM	21.3 °C	6.8 °C	39%	NNW	1.4 kph	14.5 kph	987.4 hPa	0 mm	0
6:41 PM	20.9 °C	7.2 °C	41%	NNW	13 kph	13 kph	987.4 hPa	0 mm	0
6:46 PM	20.8 °C	7.1 °C	41%	NNW	14.3 kph	16.1 kph	987.7 hPa	0 mm	0
6:52 PM	20.8 °C	7.4 °C	42%	NNW	3.2 kph	11.3 kph	987.7 hPa	0 mm	0
6:57 PM	20.8 °C	7.4 °C	42%	NNW	6.4 kph	16.1 kph	987.7 hPa	0 mm	0
7:02 PM	20.9 °C	7.9 °C	43%	NNW	6.4 kph	14.5 kph	988 hPa	0 mm	0
7:07 PM	20.7 °C	7 °C	41%	NNW	7.9 kph	25.7 kph	988 hPa	0 mm	0

## Burkes Bush Weather Station

Burkes Bush										
Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust	Pressure	Precip. Rate.	Precip. Accum.	
4:40 PM	20.6 °C	11.3 °C	55%	NE	13 kph	15.8 kph	987.7 hPa	0 mm	0 mm	
4:45 PM	20.7 °C	8.7 °C	46%	NNW	9.7 kph	15.8 kph	987.7 hPa	0 mm	0 mm	
4:50 PM	20.8 °C	8.5 °C	45%	NNW	8.2 kph	11.9 kph	987.7 hPa	0 mm	0 mm	
4:55 PM	21 °C	9.6 °C	48%	North	14.3 kph	15.8 kph	988 hPa	0 mm	0 mm	
5:00 PM	20.9 °C	10.1 °C	50%	NNW	11.9 kph	15.8 kph	988 hPa	0 mm	0 mm	
5:05 PM	21 °C	9.6 °C	48%	NNW	16.9 kph	19.8 kph	988 hPa	0 mm	0 mm	
5:10 PM	21.2 °C	6.7 °C	39%	WNW	10.5 kph	11.9 kph	988 hPa	0 mm	0 mm	
5:15 PM	21.1 °C	6.3 °C	38%	West	21.9 kph	32 kph	988 hPa	0 mm	0 mm	
5:20 PM	21.3 °C	5.7 °C	36%	NW	26.5 kph	39.9 kph	988 hPa	0 mm	0 mm	
5:25 PM	21.3 °C	5.7 °C	36%	WNW	17.2 kph	24.1 kph	988 hPa	0 mm	0 mm	
5:30 PM	21.4 °C	6.1 °C	37%	SW	4.3 kph	7.9 kph	988 hPa	0 mm	0 mm	
5:35 PM	21.4 °C	5.7 °C	36%	SSW	16.6 kph	24.1 kph	988.4 hPa	0 mm	0 mm	
5:40 PM	21.4 °C	6.1 °C	37%	NW	18.3 kph	24.1 kph	988 hPa	0 mm	0 mm	
5:45 PM	21.4 °C	6.1 °C	37%	West	14.8 kph	19.8 kph	988.4 hPa	0 mm	0 mm	

Released under the Official Information Act 1982

# Appendix 5- ICAD Report

## New Zealand Fire Service Incident Report

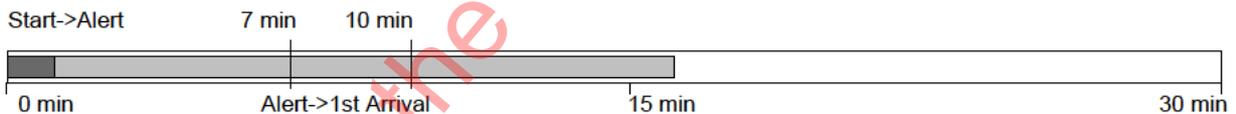
CADNumber F2245608 Start Date Time 13 February 2017 17:44:47

### Incident Details

Type: VEG 1st Caller: COXCO HOLDINGS LIMITED  
 Method: 111  
 PFA:  
 Result: 1100: STRUCTURE FIRE (VEG)  
 Location: EARLY VALLEY RD, LANSDOWNE, SELWYN DISTRICT NZTM: E 1566562  
 N 5170669  
 Common Name:  
 Zone: 342217 Station: 3425 SOCKBURN  
 Incident Info: SCRUB FIRE

### Incident History

		Elapsed Time (hh:mm:ss)
Created:	17:44:47 13 Feb 2017	
Confirmed:	17:45:37 13 Feb 2017	00:00:50
Alerted:	17:45:59 13 Feb 2017	00:01:12
1st Response:	17:47:45 13 Feb 2017	00:02:58
1st Arrival:	18:01:17 13 Feb 2017	00:16:30
2nd Arrival:	18:01:51 13 Feb 2017	00:17:04
3rd Arrival:	18:06:22 13 Feb 2017	00:21:35
Stop:		
Closed:	17:26:40 10 Mar 2017	59:41:53



### Responses

Alarm Level	Call Sign	Dispatched Day	Dispatched Time	Response Time	Arrival Time	Departed Day	Departed Time
3	SOCK257	13	17:53:08	17:53:09	18:01:17	14	06:55:12
3	ADDI221	13	17:46:01	17:47:45	18:01:51	15	06:43:06
3	CHRI2111	13	17:45:59	17:49:13	18:06:22	14	07:50:30
3	LINC411	13	17:52:46	17:57:00	18:06:30	14	18:57:01
3	LINC4111	13	17:52:46	17:56:39	18:07:02	15	03:48:01
3	CANTERBRY1	14	03:52:21	17:56:34	18:08:03	14	07:46:55
3	ROLL4211	13	17:55:10	18:00:06	18:19:03	14	21:16:54

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3	CHRI214	13	18:08:11	18:09:34	18:25:06	14	06:51:08
3	CHRI2118	13	18:08:11	18:09:39	18:27:30	14	07:15:27
3	CHRI217	13	18:08:11	18:09:48	18:28:20	13	23:09:53
3	RFOSELW1	14	03:53:49	18:13:40	18:46:17	14	14:09:29
3	CHRISTCH1	13	18:28:43	18:28:44	18:48:40	13	23:19:17
3	LINC417	13	17:52:47	17:55:30	18:54:12	14	09:47:55
3	HARE261	13	18:40:43	18:41:33	18:57:13	20	02:07:15
3	WOOL241	13	18:40:41	18:41:23	18:57:28	22	07:44:19
3	REGION4B	14	03:42:10	19:35:53	19:35:54	14	18:49:15
3	ROLLCFO	13	19:37:32	19:37:33	19:40:27	13	21:34:35
3	RFOSELW4	13	19:35:54	19:35:55	19:53:02	16	19:41:25
3	BOTT1711	17	05:27:11	19:21:58	19:56:56	08	17:47:04
3	SELW9480	13	20:07:07	20:06:59	20:07:59	10	16:50:43
3	SELW9475	13	20:09:18	20:09:19	20:09:20	10	17:19:13
3	SELW9476	13	20:09:19	20:09:20	20:09:21	17	17:09:41
3	GOVE3311	13	19:06:56	19:08:09	20:09:50	13	23:54:52
3	LINC4126	13	19:58:00	19:58:01	20:15:36	14	08:29:43
3	RFOSELW3	13	20:03:28	20:03:29	20:19:33	14	15:38:39
3	BURN9111	13	20:35:16	20:35:17	20:35:18	17	17:51:31
3	RURALCHCH2	13	18:45:54	18:45:55	21:27:50	13	21:54:58
3	WEST9571	21	09:02:17	09:20:10	00:12:45	24	16:57:29
3	WEST9525	25	12:45:43	12:30:18	02:04:43	02	16:24:39
3	LEES4311	14	03:43:21	03:48:09	04:15:37	15	23:57:35
3	ROLL4226	14	10:14:01	06:23:29	06:37:42	15	20:49:36
3	WEST9511	16	20:21:37	00:40:19	07:21:43	17	17:21:56
3	RURALSCRF8	14	07:24:08	05:33:03	08:30:03	14	22:13:13
3	RFOSELW2	13	18:40:15	18:40:16	21:28:49	17	20:25:52
3	SOUTHCANT2	15	12:10:27	12:10:29	12:33:30	16	15:28:22
3	TIMA8018	15	13:22:39	13:49:24	15:51:39	16	15:30:57
3	SHEF711	15	18:52:08	18:52:09	18:52:10	16	05:16:44
3	LINCCFO	15	19:56:39	19:56:40	19:56:41	16	02:39:03
3	RANG7611	15	20:52:44	20:56:58	21:35:28	16	00:20:14
3	HORO7311	15	20:52:06	20:58:03	21:40:30	16	18:48:04
3	VICT1811	13	19:05:21	01:56:50	01:56:51	02	17:32:33
3	HURU0977	16	07:48:01	07:48:02	07:52:04	20	21:24:04
3	TIMA8029	16	07:53:55	07:53:56	10:13:05	16	13:32:32
3	SCAR9225	19	04:52:45	15:19:26	15:19:27	19	16:53:55
3	SWAN1725	17	06:07:28	06:07:29	06:37:12	27	19:39:46
3	BURN9160	17	07:41:07	07:40:26	07:40:27	05	10:26:14
3	PEEL5211	19	05:39:19	07:58:59	07:59:00	24	20:01:48
3	BOTT1760	17	10:10:32	10:10:33	10:10:34	02	17:32:23
3	HIND9311	17	10:41:37	10:41:38	10:41:39	19	20:48:47
3	SPRI7411	17	10:41:38	10:41:39	10:41:40	23	14:25:35
3	CLAN5311	17	13:25:51	13:25:52	13:25:53	17	19:24:29
3	ARTH9625	18	05:24:48	05:24:49	06:00:31	10	17:19:27
3	PEND8911	18	05:24:49	05:24:50	06:06:29	19	20:05:09

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3	ASHB9011	18	05:27:35	05:27:47	06:40:27	19	20:23:13
3	LAUR8871	20	05:10:17	05:24:49	07:56:14	25	16:31:05
3	AMBE4825	19	05:28:39	05:28:40	08:35:10	19	19:29:55
3	ALFO8611	20	06:04:08	06:18:02	06:04:58	24	18:06:03
3	AORA5475	20	05:22:16	04:15:08	06:10:02	28	20:16:08
3	METH6329	23	05:02:45	05:23:30	06:17:53	23	17:45:34
3	TEMU8629	20	05:28:52	04:14:57	06:31:32	23	19:59:13
3	RANG5111	20	05:00:13	05:04:11	08:46:02	28	20:30:33
3	WAIK1825	24	05:36:03	05:31:28	06:31:14	24	19:38:23
3	WAIH5771	21	17:14:30	20:54:46	17:14:32	07	13:27:08
3	PINE1971	22	05:32:02	05:31:58	05:31:59	22	18:54:15
3	STHLND2710	21	17:10:49	17:10:50	05:55:57	01	14:59:59
3	STHLND2771	21	17:11:59	17:12:00	05:56:22	01	16:44:37
3	PINE1925	22	05:30:39	05:30:40	06:13:25	22	19:20:10
3	MTSO9611	23	16:06:13	16:06:14	18:11:09	01	17:04:27
3	RTSREGION4	24	15:49:05	15:49:06	16:48:26	24	17:37:33
3	CHAR9271	24	20:23:03	15:22:23	20:23:09	05	15:00:29
3	SEFT3976	25	06:05:43	06:05:44	07:12:33	25	17:27:15
3	SCRFF9378	25	16:30:54	16:30:55	16:30:56	28	20:57:14
3	UPPE9473	01	21:17:44	21:17:45	21:17:46	05	08:49:48
3	ASHB622	18	05:31:35			18	05:31:52
3	MOTU3611	23	12:41:20			23	12:44:41
3	OXFO7911	19	06:04:16			19	08:05:40
3	RURALCHCH3	13	20:05:40			16	20:23:38
3	RURALSCRFF2	16	05:53:41			16	05:59:18
3	TIMA802	16	07:56:43	07:56:44		16	09:48:48
3	UPPE8771	03	21:23:01	21:23:02		03	21:46:04
3	WEST7311	16	00:39:31			16	00:39:47

### Cover Moves

Call Sign	Start Time	End Time
KAIA401	13 18:43:01	
KAIA407	13 18:58:22	
LINC417	16 15:06:07	
ROLL427	13 18:23:51	
STAL231	13 18:42:11	

### Notifications

Date	Party Notified
17:52:57	AREA CHCH
17:54:45	RFO CHCH CITY COUNCIL
17:54:54	AC [REDACTED] ACK
17:59:31	PRFO CHRISTCHURCH [REDACTED] ACK PAGE

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17:59:48 RFO PAGED RE HELOS  
 18:05:15 RFO SELWYN ....PAGED TURNOUT AND 1 HELO REQUIRED  
 18:15:55 [REDACTED] FROM WAY TO GO HELO HAS A HELO AVAILABLE  
 18:58:29 WAY 2 GO ([REDACTED]) RUNG AND WILL ADVISE AVAILABILITY  
 19:01:15 MRF CHCH ([REDACTED]) PAGED UPDATE  
 19:04:02 MRF CHCH ([REDACTED]) ACK PAGE  
 19:09:26 AAC [REDACTED] RESPONDING AS PER REQUESTED BY AC BERRY  
 19:20:49 REGION 4 DUTY PAGED RE ALARM LEVEL  
 19:20:56 NCG PAGED RE ALARM LEVEL  
 19:25:43 REGION 4 ([REDACTED]) ACK PAGE  
 19:26:03 NCG ACK PAGE VIA [REDACTED]  
 19:30:51 CM SOUTHERN ([REDACTED]) PAGED  
 19:32:42 CM SOUTHERN ACK PAGE  
 02:11:00 AREA CHCH PAGED  
 02:14:10 AREA CHCH ACK PAGE ([REDACTED])  
 03:22:02 AREA CHCH PAGED UPDATE  
 03:27:47 AAC [REDACTED] ACK PAGE IS GOING TO LIAISE WITH AC [REDACTED]  
 03:33:31 AREGION 4 (DUTY) PAGED RE AREA CHCH RESPONDING  
 03:44:38 REGION 4 ([REDACTED]) ACK PAGE  
 12:56:28 RFO [REDACTED] ADVISED OF RECENT CALLS FROM GOVERNORS BAY  
 12:56:51 RFO [REDACTED] ADVISED  
 01:51:06 ORION WHO ARE RESPONDING IMMEDIATELY  
 17:52:29 ICP ADVISED OF GOVERNORS BAY SITREP  
 16:14:33 [REDACTED] ICP HAS SENT SOMEONE AROUND THERE AND THERE IS NO WAY AN URBAN  
 APPLIANCE WILL GET NEAR IT AND ICP WILL LOOK AFTER IT AT THIS STAGE  
 06:47:09 [REDACTED] FROM ICP CALLED TO ADVISE THE DAY CREW HAS TAKEN OVER AND HE WILL  
 CALL UP DURING THE DAY TO ADVISE WHO IS TAKING OVER FROM HIM  
 18:44:09 [REDACTED] CONTACT FOR ANY CALLS DURING THE NIGHT [REDACTED]  
 21:32:43 [REDACTED] CALLED IN AND SAID THAT THIS IS OUT OF THE FIRE AREA THEY ARE LOOKING  
 AFTER  
 09:35:16 RFO SELWYN PAGED FOR RFO IN CHARGE OF THE HALSWELL STAGING OP PORT HILLS  
 TO CONTACT FIRE COMS RE UPDATE ON APPLIANCES STILL ATTACHED

## Message Log

Time	Message
17:45:37	INC INFO: SCRUB FIRE
17:45:38	** ELOI search completed at 13/02/17 17:45:38 - 1 result
17:45:39	** LOI search completed at 13/02/17 17:45:39
17:45:51	** Recommended unit CHRI2111 for requirement TANKER (>11.0 km)
17:45:51	** Recommended unit ADDI221 for requirement PUMP (>7.9 km)
17:46:14	AL: PAGING ACK RECEIVED FROM STATION 3422 at 13/02/17 17:46:13
17:47:14	CALLERS ARE SAYING IT IS VERY BIG FIRE
17:47:45	Unit ADDI221 [ K1 : PROCEEDING TO INCIDENT]
17:48:35	End of Duplicate Event data
17:48:59	** Requirement TANKER added for alarm level 1
17:49:13	Unit CHRI2111 [ K1 : PROCEEDING TO INCIDENT]

17:50:38 End of Duplicate Event data  
17:51:45 ENDANGERING PROPERTIES AND PYLONS ON FIRE  
17:51:52 Unit ADDI221 [ SITREP : ] MAKE PUMPS 4 TANKERS 2  
17:52:27 \*\* Requirement PUMP added for alarm level 1  
17:52:27 \*\* Cross Referenced to Event # F2245616 at: 13/02/17 17:52:27  
17:52:27 \*\*  
17:52:36 \*\* Recommended unit LINC4111 for requirement ADHOC TANKER (>8.4 km)  
17:52:36 \*\* Recommended unit LINC411 for requirement ADHOC PUMP (>8.4 km)  
17:52:36 \*\* Recommended unit LINC417 for requirement ADHOC PUMP (>8.4 km)  
17:53:09 Unit SOCK257 [ K1 : PROCEEDING TO INCIDENT]  
17:54:17 Unit SOCK257 [ KC : UNIT CALLING]  
17:54:56 Unit SOCK257 [ SITREP : ] CAN YOU TELL ME TWO TANKER THAT ARE RESPONDING GET  
17:54:56 ROLLEST ON WAY  
17:55:31 Unit LINC417 [ K1 : PROCEEDING TO INCIDENT]  
17:56:11 CALLER IN HALSWELL LOOKING UP PORT HILLS  
17:56:35 Unit CANTERBRY1 [ K1 : PROCEEDING TO INCIDENT]  
17:56:40 Unit LINC4111 [ K1 : PROCEEDING TO INCIDENT]  
17:57:01 Unit LINC411 [ K1 : PROCEEDING TO INCIDENT]  
17:57:06 Unit LINC4111 [ K1 : PROCEEDING TO INCIDENT]  
17:58:23 Unit ADDI221 [COMCEN COM : MESSAGE] HYDANT LOCATION GIVEN (ACK)  
17:58:24 Unit LINC4111 [COMCEN COM : MESSAGE] HYDANT LOCATION GIVEN (ACK)  
17:58:40 INC INFO: BUSH FIRE  
17:58:40 INC INFO: VEGETATION FIRE  
17:58:40 INC INFO: UP ON THE HILL  
17:58:43 End of Duplicate Event data  
17:58:43 \*\* Cross Referenced to Event # F2245619 at: 13/02/17 17:58:43  
17:58:43 \*\*  
17:59:00 X  
17:59:08 \*  
17:59:09 RRRR  
17:59:12 FIRE2POL FOR TRAFFIC AND POSS EVACUATIONS  
17:59:13 XXX  
17:59:27 Unit ADDI221 [ SITREP : ] HELI ON STANDBY FIRE IS RACING UP THE HILL  
18:00:02 End of Duplicate Event data  
18:00:03 \*\* Cross Referenced to Event # F2245625 at: 13/02/17 18:00:03  
18:00:03 \*\*  
18:00:07 Unit ROLL4211 [ K1 : PROCEEDING TO INCIDENT]  
18:01:06 SCC1 RRRR  
18:01:18 Unit SOCK257 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:01:40 CRN2 WILL TALK TO DCC.  
18:01:51 Unit ADDI221 [ K66 : NON PROPERTY FIRE]  
18:02:38 .  
18:02:40 Unit ADDI221 [ KP : PRIORITY MESSAGE]  
18:02:51 .  
18:03:15 .  
18:03:16 .

18:03:20 CHRISTCHURCH HELICOPTERS HAS A HELO AND BUCKET READY TO GO  
18:03:21 .  
18:03:37 Unit ADDI221 [ KP : PRIORITY MESSAGE] MAKE HELI 2 ADVISE CHRI2111 [REDACTED] EARLY  
18:03:37 VALLEY RD  
18:03:54 Unit SOCK257 [ KP : PRIORITY MESSAGE]  
18:03:56 Unit CHRI2111 [COMCEN COM : MESSAGE] DID YOU COPY (YES ETA 5MINS)  
18:04:43 XXXXXXXXX  
18:04:57 FROM PRFO CHRISTCHURCH [REDACTED] THIS IS IN THE SELWYN AREA  
18:04:58 \*  
18:05:03 GARDEN CITY HELO - COMMITTED IN KAIKOURA  
18:05:14 CHCH HELO OK TO GO - ETA 10 MINS  
18:05:17 \*  
18:05:18 Unit SOCK257 [ KP : PRIORITY MESSAGE] MAKE HELI 1 AT THIS STAGE AND ADVISE NEXT  
18:05:18 ARRIVING APPLIANCES (LINC411 & 417 AND YOUR THREE TANKERS)  
18:05:28 Unit SOCK257 [ KP : PRIORITY MESSAGE]  
18:06:22 Unit CHRI2111 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:06:30 Unit LINC411 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:06:41 Unit LINC411 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:06:49 Unit LINC411 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:06:55 Unit SOCK257 [ KP : PRIORITY MESSAGE] MAKE 3 ALARM FIRE WELL INVOLVED (YOU ARE  
18:06:55 AT 4TH ALARM) WE NEED MORE PUMPS  
18:07:03 Unit LINC411 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:07:15 DCC - LCR WILL BE PRIME UNIT  
18:07:30 \*\* Event P028499786 transferred from NZP/CR to NZP/CU as P028499786 at 13/02/17  
18:07:30 18:07:30  
18:07:34 Unit SOCK257 [ SITREP : ] 6 PUMPS WITH 4 GUYS IN EACH  
18:07:45 Unit ADDI221 [ KP : PRIORITY MESSAGE]  
18:07:47 \*\* Requirement PUMP added for alarm level 1  
18:07:53 \*\* Requirement PUMP added for alarm level 1  
18:07:57 \*\* Requirement PUMP added for alarm level 1  
18:08:03 \*\* Recommended unit CHRI214 for requirement ADHOC PUMP (>11.0 km)  
18:08:03 \*\* Recommended unit CHRI217 for requirement ADHOC PUMP (>11.0 km)  
18:08:03 Unit CANTERBRY1 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:08:07 Unit ADDI221 [ KP : PRIORITY MESSAGE]  
18:08:33 Unit ADDI221 [ KP : PRIORITY MESSAGE] REPORTS OF [REDACTED] UP YTHE HILL  
18:08:35 Unit CHRI2111 [ KP : PRIORITY MESSAGE]  
18:08:42 Unit CHRI2111 [ KP : PRIORITY MESSAGE]  
18:09:15 Unit CHRI2111 [ KP : PRIORITY MESSAGE]  
18:09:34 Unit CHRI214 [ K1 : PROCEEDING TO INCIDENT]  
18:09:40 Unit CHRI2118 [ K1 : PROCEEDING TO INCIDENT]  
18:09:48 LCR1 WANTS POINT TO MEET AND LIASE WITH YOUR COMMAND UNIT  
18:09:48 Unit CHRI217 [ K1 : PROCEEDING TO INCIDENT]  
18:10:42 Unit CHRI2111 [ KP : PRIORITY MESSAGE] REPORT [REDACTED] EARLY VALLEYS RD CAN WE GET  
18:10:42 PUMP THERE  
18:11:17 CHCH  
18:12:00 CALLER ON A QUAD BIKE AT THE TOP OF THE SPUR STATING FIRE HEADING TOWARDS

18:12:00 FORESTRY AND CANT BE CONTAINED  
18:12:39 Unit LINC411 [COMCEN COM : MESSAGE] REPORTS OF FIRE THREATENING HOUSE AT [REDACTED]  
18:12:39 EARLY VALLEY RD  
18:13:08 Unit LINC411 [ K11P : POLICE REQUIRED] IF NOT ALREADY RESPONDING AS WE ARE  
18:13:08 GETTING ALOT OF PEOPLE  
18:13:41 Unit RFOSELW1 [ K1 : PROCEEDING TO INCIDENT]  
18:13:49 \*\* Cross Referenced to Event # F2245639 at: 13/02/17 18:13:49  
18:13:49 \*\*  
18:13:49 Unit RFOSELW1 [ K1 : PROCEEDING TO INCIDENT]  
18:13:52 INC INFO: SMOKE IN VICINITY  
18:13:53 End of Duplicate Event data  
18:13:53 \*\* Cross Referenced to Event # F2245636 at: 13/02/17 18:13:53  
18:13:53 \*\*  
18:13:57 End of Duplicate Event data  
18:13:58 \*\* Cross Referenced to Event # F2245635 at: 13/02/17 18:13:58  
18:13:58 \*\*  
18:14:36 Unit ROLL4211 [ KC : UNIT CALLING]  
18:15:30 Unit ROLL4211 [ SITREP : ] WE ARE 5MINS 9OUT IS THERE A SFP  
18:15:43 \*  
18:16:21 Unit SOCK257 [COMCEN COM : MESSAGE] SFP START OF EARLY VALLEY RD  
18:16:52 Unit CHRI214 [COMCEN COM : MESSAGE] SFP PASSED  
18:16:52 Unit CHRI217 [COMCEN COM : MESSAGE] SFP PASSED  
18:17:03 Unit CANTERBRY1 [ KC : UNIT CALLING]  
18:18:04 \*\* Cross Referenced to Event # P028499797 at: 13/02/17 18:18:04  
18:18:04 \*\*  
18:18:28 Unit CANTERBRY1 [ SITREP : ] HOW MANY HELI RESPONDING (2 ONE WITH BUCKET AND ONE  
18:18:28 WITHOUT GOING TO CHECK ON HOUSES ABOVE FIRE WHERE REPORTS OF  
[REDACTED]  
18:18:28 IN HOUSES) ACK  
18:19:03 Unit ROLL4211 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:19:39 \*\* Alarm level updated to 2  
18:19:49 \*\* Alarm level updated to 3  
18:23:51 COVERING UNIT ROLL427 DISPATCHED TO STATION SOCKBURN  
18:23:51 AT 13/02/17 18:23:50  
18:23:51 TERMINAL: D0730062  
18:25:07 Unit CHRI214 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:26:52 \*\*\*\*  
18:27:30 Unit CHRI2118 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:28:00 Unit CHRI2118 [ KC : UNIT CALLING]  
18:28:21 Unit CHRI217 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:28:45 Unit CHRISTCH1 [ K1 : PROCEEDING TO INCIDENT]  
18:29:07 Unit CHRI2118 [ SITREP : ] CAN YOU GET HOLD OF SOCKBURN AND FIND OUT WHERE  
THEY  
18:29:07 WANT THE COMMAND UNIT  
18:30:32 Unit SOCK257 [COMCEN COM : MESSAGE] CAN YOU LIAISE WITH CHRI2118 AS TO WHERE  
YOU  
18:30:32 WANT THEM ( ACK)

18:33:18 ##  
18:33:18 CALLER BACK ON THE LINE - THIS IS DEFINITELY A DIFFERENT FIRE  
18:33:18 ##  
18:33:18 .  
18:33:18 CALLER HAS RUNG BACK AND CONFIRMS IT IS EARLY VALLEY FIRE  
18:33:19 End of Duplicate Event data  
18:33:19 \*\* Cross Referenced to Event # F2245634 at: 13/02/17 18:33:19  
18:33:19 \*\*  
18:38:23 \*\*\*\*\*  
18:38:29 RANG CHCH HELOS  
18:38:39 CONFIRM THAT THE TWO HELOS ARE UP AT THE RIDGE  
18:38:45 Unit CHRI2118 [ KC : UNIT CALLING]  
18:38:53 Unit CHRI2118 [ KC : UNIT CALLING]  
18:38:57 ARE EVACUATING PERSONS OFF THE RIDGE NUT OTHER DETAILS NOT AVAILABLE AT THIS  
18:38:57 STAGE E.G. NUMBERS ETC  
18:39:00 \*\*\*\*\*  
18:39:06 FIR2AMB  
18:39:11 NOTIFICATION ONLY  
18:39:14 \*\*\*\*\*  
18:39:38 Unit CHRI2118 [ SITREP : ] SSC [REDACTED] 2 MORE PUMPS NEEDED ON SCENE  
18:40:17 \*\* WARNING: FAILED TO SEND [F2245608] TO AMBO  
18:40:17 Unit RFOSELW2 [ K1 : PROCEEDING TO INCIDENT]  
18:40:57 Unit HARE261 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
18:41:24 Unit WOOL241 [ K1 : PROCEEDING TO INCIDENT]  
18:41:34 Unit HARE261 [ K1 : PROCEEDING TO INCIDENT]  
18:41:52 AL: PAGING ACK RECEIVED FROM STATION 3426 at 13/02/17 18:41:51  
18:42:11 COVERING UNIT STAL231 DISPATCHED TO STATION  
18:42:11 CHRISTCHURCH AT 13/02/17 18:42:10  
18:43:01 COVERING UNIT KAIA401 DISPATCHED TO STATION ST ALBANS AT  
18:43:01 D0730062  
18:45:55 Unit RURALCHCH2 [ K1 : PROCEEDING TO INCIDENT]  
18:46:18 Unit RFOSELW1 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:46:26 Unit RFOSELW1 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:46:34 Unit RFOSELW1 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:47:16 .  
18:48:03 PERSON FROM CHRISTCHURCH ADVENTURE PARK RANG ENQUIRING IF THEY NEED TO  
EVACUATE  
18:48:03 THE PARK, DETAILS PASSED AND ADVISED THEY NEED TO MAKE THAT DECISION  
18:48:04 .  
18:48:41 Unit CHRISTCH1 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:48:50 Unit CHRISTCH1 [ KC : UNIT CALLING]  
18:49:39 Unit CHRISTCH1 [ SITREP : ] 2 MORE HELIS NEEDED ON STANDBY  
18:50:56 Unit WOOL241 [ KC : UNIT CALLING]  
18:51:22 Unit CHRI2118 [ SITREP : ] ETA FOR NEXT PUMP? (WOOLSTON 5 MIN) ACK  
18:51:33 Unit CHRI2118 [ K44 : COMMAND OR CONTROL POINT ESTABLISHED - OIC AND LOCATION]  
18:51:33 EARLY VALLEY COMMAND

18:51:41 .  
18:51:43 \*\*\*\*\*  
18:54:12 Unit LINC417 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:54:41 CHRISTCHURCH HELIS RUNG ... 1 ON STANDBY FROM MT HUTT HELIS AND  
18:55:30 NEED TO REQUEST ONE FROM WAY 2 GO HELIS  
18:55:52 Unit CHRI2118 [ KC : UNIT CALLING]  
18:56:00 Unit CHRI2118 [ KC : UNIT CALLING]  
18:56:52 Unit CHRI2118 [ SITREP : ] CAN WE HAVE 4 HELIS IN TOTAL ON SCENE  
18:57:13 Unit HARE261 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:57:29 Unit WOOL241 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:58:22 COVERING UNIT KAIA407 DISPATCHED TO STATION ST ALBANS AT  
18:58:22 D0730062  
18:58:31 .  
19:00:19 .  
19:01:04 \*\*\*  
19:01:31 NOT1 FROM MT HUTT HELIS AND 1 FROM WAY2GO WILL BE ENROUTE ASAP  
19:01:32 .  
19:03:32 Unit CHRI2118 [ KC : UNIT CALLING]  
19:03:43 \*\*\*\*\*  
19:03:48 Unit CHRI2118 [ KC : UNIT CALLING]  
19:04:26 ADVISES THAT SELWYN DC HAS ESTABLISHED AN EMERGENCY COORDINATION CENTRE  
AT  
19:04:26 ROLLESTON  
19:04:29 \*\*\*  
19:04:32 Unit CHRI2118 [ SITREP : ] HOW MANY TANKERS? (3 TANKERS) CAN WE GET ANOTHER  
WITH  
19:04:32 ETA  
19:04:37 \*\* Requirement TORT added for alarm level 3  
19:04:48 \*\* Requirement TORT added for alarm level 3  
19:05:02 \*\* Recommended unit VICT1811 for requirement ADHOC TORT (>5.5 km)  
19:06:12 Unit CHRI2118 [ KC : UNIT CALLING]  
19:06:20 Unit CHRI2118 [ KC : UNIT CALLING]  
19:06:44 \*\* Requirement TORT added for alarm level 3  
19:06:51 \*\* Recommended unit GOVE3311 for requirement ADHOC TORT (>5.1 km)  
19:07:06 AL: PAGING ACK RECEIVED FROM STATION 3433 at 13/02/17 19:07:06  
19:08:10 Unit GOVE3311 [ K1 : PROCEEDING TO INCIDENT]  
19:08:59 .  
19:09:28 .  
19:10:07 \*\*\*\*  
19:10:29 #####  
19:10:55 CALLER SAYS THIS FIRE HAS GOT INTO THE PLANTATION - TO THE SOUTH OF THE FIRE  
19:10:55 CREWS - CALLER THINKS WE MAY NOT BE AWARE  
19:10:56 ####  
19:13:22 \*\*\*\*\*  
19:13:45 POOL/POND INFO FOR HOLMES RD PASSED TO CHRI2118 AND CHCH HELOS  
19:13:52 \*\*  
19:14:09 Unit GOVE3311 [ KC : UNIT CALLING]

19:15:40 Unit VICT1811 [ K7 : AT NORMAL STATION]  
19:16:04 Unit REGION4B [ KC : UNIT CALLING]  
19:16:53 \*\*  
19:17:05 Unit CHRI2118 [ KC : UNIT CALLING]  
19:17:07 CHRI2118 ADVISED RE AVAILABILITY OF TAI TAPU SCHOOL POOL  
19:17:08 \*\*  
19:17:14 Unit CHRI2118 [ KC : UNIT CALLING]  
19:17:22 Unit CHRI2118 [ KC : UNIT CALLING]  
19:17:53 Unit CHRI2118 [ SITREP : ] TANKER ETA? (THEY HAVE PASSED GEBBIES PASS) ACK  
19:21:12 Unit CHRI2118 [ KC : UNIT CALLING]  
19:21:39 Unit CHRI2118 [ K45 : COMMAND RESPONSIBILITY CHANGED TO - NAME] AC [REDACTED]  
19:21:59 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
19:23:17 GARDEN CITY HELO ADVISE HAVE 2 1000L BUCKET HELOS AVAILBLE AT FIRST LIGHT IF  
19:23:17 REQUIRED  
19:25:18 \*\*\*  
19:26:44 Unit GOVE3311 [ KC : UNIT CALLING]  
19:29:13 Unit CHRI2118 [ KC : UNIT CALLING]  
19:30:05 Unit CHRI2118 [ SITREP : ] AC [REDACTED] LARGE SCRUB FIRE MULTIPLE DELIVERIES IN USE  
19:30:05 MULTIPLE HOUSES EVACUATED AIR OPS MANAGER ESTABLISHED WORKING WITH  
HELOS AND  
19:30:05 MONSOON BUCKETS  
19:30:32 Unit CHRI2111 [ KP : PRIORITY MESSAGE]  
19:30:52 \*\*  
19:35:23 Unit REGION4B [ KC : UNIT CALLING]  
19:35:55 Unit REGION4B [ K2 : IN ATTENDANCE AT INCIDENT]  
19:35:56 Unit RFOSELW4 [ K1 : PROCEEDING TO INCIDENT]  
19:37:34 Unit ROLLCFO [ K1 : PROCEEDING TO INCIDENT]  
19:38:02 Unit ROLLCFO [ SITREP : ] HAVE BEEN REQUESTED AT THE COMMAND CENTRE IN  
19:38:02 ROLLESTON. REGION4B AWARE  
19:40:27 Unit ROLLCFO [ K2 : IN ATTENDANCE AT INCIDENT]  
19:40:50 Unit CHRI2118 [ KC : UNIT CALLING]  
19:41:07 Unit CHRI2118 [ KC : UNIT CALLING]  
19:41:34 Unit CHRI2118 [COMCEN COM : MESSAGE] MEMBERS OF PUBLIC OFFERING WATER  
TANKERS DO  
19:41:34 YOU WANT THEM RESPONDED? (NEGATIVE WE HAVE PLENTY OF WATER AT STAGE)  
19:41:50 \*\*\*\*\*  
19:43:54 [REDACTED] ADVISES SELWYN DC HAVE THE FOLLOWING RESOURCES AT THE  
INCIDENT -  
19:43:54 SELW9475/9476/9480  
19:43:58 \*\*\*  
19:53:02 Unit RFOSELW4 [ K2 : IN ATTENDANCE AT INCIDENT]  
19:53:10 Unit RFOSELW4 [ K2 : IN ATTENDANCE AT INCIDENT]  
19:55:29 \*\*\*\*  
19:56:11 SO [REDACTED] PUT THROUGH TO AC [REDACTED] RE AVAILABILITY  
19:56:56 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
19:57:20 FROM SO [REDACTED] - MAKE AVAILABILITY  
19:58:02 Unit LINC4126 [ K1 : PROCEEDING TO INCIDENT]

20:03:29 Unit RFOSELW3 [ K1 : PROCEEDING TO INCIDENT]  
20:07:00 Unit SELW9480 [ K1 : PROCEEDING TO INCIDENT]  
20:07:08 Unit SELW9480 [ K1 : PROCEEDING TO INCIDENT]  
20:07:17 Unit SELW9480 [ K1 : PROCEEDING TO INCIDENT]  
20:07:31 Unit SELW9480 [ KC : UNIT CALLING]  
20:07:59 Unit SELW9480 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:09:20 Unit SELW9475 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:09:21 Unit SELW9476 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:09:50 Unit GOVE3311 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:15:36 Unit LINC4126 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:19:34 Unit RFOSELW3 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:21:27 Unit CHRI2118 [ KC : UNIT CALLING]  
20:21:43 Unit CHRI2118 [ KC : UNIT CALLING]  
20:22:43 Unit CHRI2118 [ SITREP : ] HAVE YOU GOT ENOUGH APPLIANCES GOING TO MATHERS  
20:22:43 (AFFIRM AT THIS STAGE) WE CAN RELEASE LINCOLN IF NEEDED  
20:34:07 Unit CHRI2118 [ KC : UNIT CALLING]  
20:34:52 Unit CHRI2118 [ SITREP : ] LINC4111 HEADING TO SUMMIT ROAD JOB. BURNHAM TANKER  
20:34:52 HAS RESPONDED TO US AT EARLY VALLEY ROAD.  
20:35:18 Unit BURN9111 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:35:28 Unit LINC4111 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:37:47 \*\*\*\*\*  
20:37:52 FROM CHRI2118  
20:38:04 ADDRESSES CLEARED - ALL OF HOLMES RD  
20:38:27 NOS [REDACTED] EARLY VALLEY RD  
20:38:37 [REDACTED] EV RD STILL TO BE CONFIRMED  
20:38:38 \*\*  
20:45:36 Unit CHRISTCH1 [ KC : UNIT CALLING]  
20:46:58 Unit CHRISTCH1 [ SITREP : ] CHRI2118 TO CONTACT ME VIA CELL PHONE  
20:47:20 Unit CHRI2118 [COMCEN COM : MESSAGE] CONTACT CHRISTCH1 VIA CELL (ACK)  
20:51:17 \*\*\*  
20:51:31 FROM 2118 - [REDACTED] EV RD CHECKED..NO RESPONSE TO DOOR KNOCK  
20:51:32 \*\*  
20:59:11 Unit CHRI214 [ KC : UNIT CALLING]  
21:00:04 Unit CHRI214 [ K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]  
21:00:05 Unit CHRI214 [ SITREP : ] STANDING BY AT COMMAND POINT. SSO ON THIS APPLIANCE IN  
21:00:05 CASE OF ANY LARGE TOWN CALLS  
21:09:13 Unit CHRI2118 [ KC : UNIT CALLING]  
21:09:44 Unit CHRI2118 [COMCEN COM : MESSAGE] REPORTS OF FIRE AT [REDACTED] EARLY VALLEY RD  
21:09:44 ARE  
21:09:44 YOU AWARE? (ACK WE ARE AWARE TANKER ENROUTE)  
21:11:23 Unit CHRI214 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
21:11:58 Unit CHRI214 [ SITREP : ] RELEASED FROM SCENE  
21:14:03 \*\*\*  
21:15:17 RFO [REDACTED] ADVISES [REDACTED] EARLY VALLEY RD HAS A RURAL UNIT ON SCENE...11KVA  
21:15:17 POWER  
21:15:17 LINES ARE ON FIRE...ORION ARE AWARE...HE IS CONCERNED ABOUT THE STRUCTURE  
AND

21:15:17 THERE ARE NO NZFS UNITS IA...HAVE ADVISED HIM THE COMMAND UNT WAS MADE  
AWARE OF  
21:15:17 THIS PROPERTY A FEW MINUTES AGO  
21:19:20 Unit CHRI2118 [COMCEN COM : MESSAGE] RFO [REDACTED] ADVISES [REDACTED] EARLY VALLEY RD  
HAS  
21:19:20 A RURAL UNIT ON SCENE...11KVA POWER LINES ON FIRE HAVE YOU GOT ANY FIRE  
SERVICE  
21:19:20 APPLIANCES RESPONDING? (STAND BY)  
21:27:50 Unit RURALCHCH2 [ K2 : IN ATTENDANCE AT INCIDENT]  
21:27:58 Unit RURALCHCH2 [ K2 : IN ATTENDANCE AT INCIDENT]  
21:30:09 Unit CHRI2118 [COMCEN COM : MESSAGE] CAN A DUTY EXEC RESPOND TO SUMMIT  
ROAD  
21:30:09 (ACK)  
21:34:36 Unit ROLLCFO [ K6 : ON TELEPAGER]  
21:39:08 \*\*\*  
21:42:33 NIWA FORECAST - NOW TILL 0600 SUSTAINED WIND FROM NW 20-30KPH WINDS MAY  
TEND W  
21:42:33 TO WNW CLOSER TO 0600 WIND GUSTS TO 65 KPH TO MIDNIGHT AFTER MIDNIGHT 45-55  
KPH  
21:42:33 0600 - MIDDAY SUSTAINED WIND W TO WNW 20-30 KPH WIND GUST 45 -55 KPH...NB  
21:42:33 1500-2100 14/2 WIND MAY GO SW AND THEN ENE BY 2100...WIND GUSTS COULD  
APPROACH  
21:42:33 70 KPH AROUND 1400 (NOTE THIS IS OUTSIDE FORECAST REQUEST)  
21:43:09 Unit CHRI2118 [ KC : UNIT CALLING]  
21:44:39 Unit CHRI2118 [ SITREP : ] AC [REDACTED] HELO OPERATIONS HAVE CEASED FOR THE NIGHT.  
21:44:39 REDUCING FIRE SERVICE PRESCENCE. RURAL MONITORING OVER NIGHT. 1 HOUSE  
LOST. RADA  
21:44:39 STILL UNDER THREAT. SUMMIT ROAD TO BE CLOSED OVERNIGHT.  
21:45:28 Unit LINC4126 [ K7 : AT NORMAL STATION]  
21:46:52 Unit CHRI2118 [ SITREP : ] CORRECTION TO ABOVE SITREP AIRWAYS RADAR AT CASS  
PEAK  
21:46:52 STILL UNDER THREAT  
21:47:16 Unit CHRI2118 [ KC : UNIT CALLING]  
21:47:58 Unit CHRI2118 [ SITREP : ] AAM [REDACTED] IS HEADING UP TO SUMMIT ROAD.  
21:49:40 Unit CHRI2118 [ KC : UNIT CALLING]  
21:49:49 Unit CHRI2118 [ KC : UNIT CALLING]  
21:50:28 Unit CHRI2118 [ SITREP : ] AAM [REDACTED] IS NOW RESPONDING TO SUMMIT ROAD NOT  
AAM  
21:50:28 [REDACTED]  
21:53:52 Unit HARE261 [ SITREP : ] TWO SHEDS BURNT OUT HERE SAVED HOUSE HEADING TO [REDACTED]  
21:53:52 THE HOUSE THERE LOOKS COMPLETELY SURROUNDED  
21:54:59 Unit RURALCHCH2 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
21:56:18 \*\*\*  
21:56:38 EARLY VALLEY COMMAND NOTIFIED HARE261 MOVING TO [REDACTED] EARLY VALLEY RD  
21:56:40 \*\*\*  
21:56:40 Unit CHRI2118 [COMCEN COM : MESSAGE] HARE261 HEADING TO PROTECT A HOUSE AT  
[REDACTED]  
21:56:40 EARLY VALLEY RD. ABOUT 400M FROM EARLY VALLEY ROAD (ACK)  
22:07:13 Unit GOVE3311 [ K2 : IN ATTENDANCE AT INCIDENT]  
22:15:02 Unit CHRI2118 [ KC : UNIT CALLING]  
22:15:42 Unit CHRI2118 [ SITREP : ] ROAD BLOCKS HAVE BEEN ORGANISED HERE AT SCENE FOR

22:15:42 SUMMIT ROAD  
22:28:38 Unit CHRI2118 [ KC : UNIT CALLING]  
22:28:55 Unit CHRI2118 [ KC : UNIT CALLING]  
22:28:58 Unit CHRI2118 [ K45 : COMMAND RESPONSIBILITY CHANGED TO - NAME] RFO [REDACTED]  
22:29:40 Unit HARE261 [ SITREP : ] SO [REDACTED] JUST PUT HOUSE FIRE OUT [REDACTED] EARLY VALLEY ,  
22:29:40 SHEDS BURNT AT [REDACTED] , HOUSE SAVED. NEED ANOTHER TANKER AND APPLIANCE UP TO  
22:29:40 HARE261 LOCATION  
22:30:42 THEY HAVE A GRASS AND SCRUB BURNING UP THERE  
22:31:10 Unit CHRI2118 [COMCEN COM : MESSAGE] HARE261 HAVE PUT OUT A HOUSE FIRE.  
ASKING  
22:31:10 FOR ANOTHER PUMP AND TANKER TO THEIR LOCATION (ACK)  
22:31:27 Unit LINC417 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
22:39:12 Unit CHRI2118 [ KC : UNIT CALLING]  
22:40:11 Unit CHRI2118 [ SITREP : ] AAM [REDACTED] NOBODY ABLE TO HELP HARE261. RELAY TO  
22:40:11 HAREWOOD TO DISENGAGE AND RETURN TO COMMAND UNIT  
22:41:48 Unit HARE261 [COMCEN COM : MESSAGE] UNIT CHRI2118 [ SITREP : ] AAM [REDACTED]  
22:41:48 NOBODY ABLE TO HELP HARE261. RELAY TO HAREWOOD TO DISENGAGE AND RETURN  
TO  
22:41:48 COMMAND UNIT  
22:42:51 Unit CHRI2118 [COMCEN COM : MESSAGE] HARE261 HAS BEEN NOTIFIED. WILL BE  
LEAVING  
22:42:51 THE HOUSE SHORTLY.  
22:55:09 Unit LINC411 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
22:58:34 Unit SELW9480 [ KC : UNIT CALLING]  
23:00:07 Unit SELW9480 [ SITREP : ] RFO [REDACTED] HANDING OVER TO NIGHT SHIFT. 3 CREWS  
23:00:07 PATROLING ROADS ONLY OVER NIGHT. CORDONS WILL REMAIN IN PLACE OVER NIGHT.  
WILL  
23:00:07 CONTACT VIA PHONE SHORTLY TO PASS CONTACTS FOR OVER NIGHT. BRIEFING FOR  
AIR  
23:00:07 OPERATORS HAS BEEN ORGANISED FOR 0600 TOMORROW  
23:06:27 Unit SOCK257 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:06:47 Unit ADDI221 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:08:36 RFO [REDACTED] ADVISES NIGHT CREW OIC IS [REDACTED] ...NO LMR IF NO  
23:08:36 CONTACT VIA PHONE PAGE SELWYN DUTY RFO  
23:09:32 Unit ROLL4211 [ KC : UNIT CALLING]  
23:09:54 Unit CHRI217 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:10:41 Unit RFOSELW1 [ KC : UNIT CALLING]  
23:10:52 Unit ROLL4211 [ K0 : NOT AVAILABLE]  
23:11:21 Unit RFOSELW1 [ K6 : ON TELEPAGER]  
23:11:31 Unit RFOSELW1 [ SITREP : ] LEAVING THE SCENE AND HANDING OVER RFO AND WILL BE  
23:11:31 BACK AT 0600 TOMORROW. AVAILABLE ON PAGER IF REQUIRED  
23:13:52 Unit CHRI2118 [ KC : UNIT CALLING]  
23:14:46 Unit CHRI2118 [ SITREP : ] RELAY TO FS RESOURCES THAT DUE TO SAFETY CONCERNS  
23:14:46 THEY ARE TO WITHDRAW TO THE COMMAND UNIT NOW  
23:17:21 Unit HARE261 [COMCEN COM : MESSAGE] DUE TO SAFETY CONCERNS WITHDRAW AND  
RETURN  
23:17:21 TO THE COMMAND UNIT  
23:17:22 Unit WOOL241 [COMCEN COM : MESSAGE] DUE TO SAFETY CONCERNS WITHDRAW AND  
RETURN

23:17:22 TO THE COMMAND UNIT  
23:18:41 Unit RFOSELW3 [ K6 : ON TELEPAGER]  
23:19:18 Unit CHRISTCH1 [ K6 : ON TELEPAGER]  
23:20:05 Unit REGION4B [ KC : UNIT CALLING]  
23:20:56 Unit CHRI2118 [ KC : UNIT CALLING]  
23:21:02 Unit CHRI2118 [ KC : UNIT CALLING]  
23:22:03 Unit CHRI2118 [ SITREP : ] EARLY VALLEY COMMAND CLOSING DOWN, HANDING OVER TO  
23:22:03 RURAL  
23:22:23 Unit RFOSELW2 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:22:28 Unit HARE261 [ SITREP : ] WE ARE JUST LEAVING [REDACTED] EARLY VALLEY ROAD  
23:22:38 Unit BURN9111 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
23:27:51 Unit CANTERBRY1 [ K6 : ON TELEPAGER]  
23:29:19 Unit BOTT1711 [ KC : UNIT CALLING]  
23:29:44 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:53:26 Unit GOVE3311 [ KC : UNIT CALLING]  
23:54:54 Unit GOVE3311 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:55:52 Unit CHRI2118 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:58:02 Unit RFOSELW4 [ K6 : ON TELEPAGER]  
00:01:51 Unit WOOL241 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
00:06:26 Unit CHRI2111 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
00:11:21 Unit HARE261 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
00:12:44 \*\*\*\*  
00:12:45 Unit WEST9571 [ K2 : IN ATTENDANCE AT INCIDENT]  
00:13:02 PHONED [REDACTED] RE POTTERS LANE REIGNITION  
00:13:04 \*\*\*  
00:13:13 Unit WEST9571 [COMCEN COM : MESSAGE] FIRE REIGNITED AT INTERSECTION OF EARLY  
00:13:13 VALLEY ROAD AND OLD TAI TAPU RD  
00:13:34 \*\* Cross Referenced to Event # F2245835 at: 14/02/17 00:13:34  
00:13:34 \*\*  
00:17:36 Unit REGION4B [ K6 : ON TELEPAGER]  
00:23:28 \*\* Cross Referenced to Event # F2245839 at: 14/02/17 00:23:28  
00:23:28 \*\*  
00:23:36 Unit WEST9571 [COMCEN COM : MESSAGE] [REDACTED] EARLY VALLEY RD HAS A FIRE AGAINST  
THE  
00:23:36 HOUSE AGAIN (ACK)  
00:29:33 Unit WEST9571 [ KC : UNIT CALLING]  
00:31:26 Unit WEST9571 [ SITREP : ] GOING TO INVESTIGATE [REDACTED] EARLY VALLEY RD. ETA 4 MIN  
02:03:56 Unit WEST9571 [ SITREP : ] 5 HOUSES BACK BURNING NEED ANOTHER APPLIANCE AT  
02:03:56 INCIDENT CONTROL POINT ALL TANKERS COMMITTED  
02:04:43 Unit WEST9525 [ K2 : IN ATTENDANCE AT INCIDENT]  
02:05:08 Unit ADDI221 [ K7 : AT NORMAL STATION]  
02:07:19 AL: PAGING ACK RECEIVED FROM STATION 3422 at 14/02/17 02:07:19  
02:09:36 Unit ADDI221 [ K1 : PROCEEDING TO INCIDENT]  
02:20:41 Unit ADDI221 [ K2 : IN ATTENDANCE AT INCIDENT]  
02:40:13 Unit WEST9571 [ KP : PRIORITY MESSAGE]  
02:41:08 Unit WEST9571 [ KP : PRIORITY MESSAGE] HOUSES UNDER THREAT FROM FIRE DOWN  
THE

02:41:08 HILL [REDACTED] EARLY VALLEY ROAD RESPOND 2 PUMPS 2 TANKERS  
02:43:45 AL: PAGING ACK RECEIVED FROM STATION 3425 at 14/02/17 02:43:45  
02:45:04 Unit CHRI2111 [ K1 : PROCEEDING TO INCIDENT]  
02:46:07 Unit SOCK257 [ K1 : PROCEEDING TO INCIDENT]  
02:49:10 Unit LINC411 [ K1 : PROCEEDING TO INCIDENT]  
02:50:50 Unit ROLL4211 [ K1 : PROCEEDING TO INCIDENT]  
02:54:54 Unit WEST9571 [COMCEN COM : MESSAGE] DO YOU WANT BOTH PUMPS AND BOTH  
TANKERS  
02:54:54 RESPONDING TO 54 EARLY VALLEY ROAD OR DO YOU WANT THEM SPLIT UP?  
02:55:37 Unit WEST9571 [ SITREP : ] ALL TO [REDACTED] EARLY VALLEY RD. 2 HOUSES AND MULTIPLE  
02:55:37 OTHER STRUCTURES THREATENED,  
02:55:52 Unit SOCK257 [COMCEN COM : MESSAGE] ALL TO [REDACTED] EARLY VALLEY RD. 2 HOUSES AND  
02:55:52 MULTIPLE OTHER STRUCTURES THREATENED, (ACK)  
02:55:58 Unit LINC411 [COMCEN COM : MESSAGE] ALL TO [REDACTED] EARLY VALLEY RD. 2 HOUSES AND  
02:55:58 MULTIPLE OTHER STRUCTURES THREATENED, (ACK)  
02:56:12 Unit SOCK257 [ K2 : IN ATTENDANCE AT INCIDENT]  
02:58:54 Unit LINC411 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:02:45 Unit CHRI2111 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:08:16 Unit ROLL4211 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:16:55 Unit WEST9571 [ KC : UNIT CALLING]  
03:17:39 Unit WEST9571 [ SITREP : ] ADDITIONAL 2 PUMPS AND 1 TANKER TO [REDACTED] EARLY VALLEY  
03:17:39 RD. MULTIPLE PROPERTIES UNDER THREAT  
03:17:54 \*\* Requirement TORT added for alarm level 3  
03:19:51 AL: PAGING ACK RECEIVED FROM STATION 3491 at 14/02/17 03:19:50  
03:21:45 Unit CHRI214 [ K1 : PROCEEDING TO INCIDENT]  
03:24:50 Unit BURN9111 [ K1 : PROCEEDING TO INCIDENT]  
03:25:04 Unit LINC417 [ K1 : PROCEEDING TO INCIDENT]  
03:26:48 Unit WEST9571 [COMCEN COM : MESSAGE] DO YOU WANT THE COMMAND UNIT?  
(NEGATIVE)  
03:27:03 .  
03:27:48 .  
03:27:50 Unit WEST9571 [ SITREP : ] CONFIRM UNITS RESPONDING? (BURN9111, CHRI214,LINC417.  
03:27:50 NEXT TANKERS WILL BE COMING FROM LEESTON OR DUNSANDEL) ACK WE ARE  
SETTING UP A  
03:27:50 WATER SOURCE  
03:31:03 .  
03:31:14 FROM AAC [REDACTED] RESPOND CHRI2118  
03:31:16 .  
03:33:34 \*\*  
03:33:41 Unit CHRI2118 [ K1 : PROCEEDING TO INCIDENT]  
03:33:46 Unit LINC417 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:39:36 Unit CHRI214 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:40:00 Unit SOCK257 [ KC : UNIT CALLING]  
03:40:49 Unit SOCK257 [ SITREP : ] IS THE COMMAND UNIT RESPONDING? (AFFIRM)  
03:41:50 Unit REGION4B [ KC : UNIT CALLING]  
03:42:07 Unit CHRI214 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:42:12 Unit REGION4B [ K1 : PROCEEDING TO INCIDENT]

03:42:36 Unit SELW9475 [ SITREP : ] 1 PUMP AND 1 TANKER REQUIRED  
03:43:32 AL: PAGING ACK RECEIVED FROM STATION 3443 at 14/02/17 03:43:32  
03:46:14 Unit WOOL241 [ K1 : PROCEEDING TO INCIDENT]  
03:47:22 Unit SOCK257 [ KC : UNIT CALLING]  
03:48:10 Unit LEES4311 [ K1 : PROCEEDING TO INCIDENT]  
03:48:17 Unit LEES4311 [ K1 : PROCEEDING TO INCIDENT]  
03:48:46 Unit SOCK257 [ SITREP : ] SSO [REDACTED] WORKING WITH 2 DELIVEIES AT [REDACTED] EARLY VALLEY  
03:48:46 RD TO STOP FIRE GETTING INTO MACROCARPA HEDGES AND TO STOP FIRE SPREADING  
03:52:26 Unit CANTERBRY1 [ K1 : PROCEEDING TO INCIDENT]  
03:53:50 Unit RFOSELW1 [ K1 : PROCEEDING TO INCIDENT]  
03:53:52 Unit RFOSELW1 [ K1 : PROCEEDING TO INCIDENT]  
03:54:01 Unit RFOSELW1 [ K1 : PROCEEDING TO INCIDENT]  
03:54:13 Unit BURN9111 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:54:41 Unit RFOSELW1 [ K1 : PROCEEDING TO INCIDENT]  
03:55:03 Unit CHRI2118 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:55:10 Unit CHRI2118 [ K2 : IN ATTENDANCE AT INCIDENT]  
03:55:41 Unit REGION4B [ K2 : IN ATTENDANCE AT INCIDENT]  
04:09:46 Unit CHRI2118 [ KC : UNIT CALLING]  
04:11:14 Unit CHRI2118 [ K44 : COMMAND OR CONTROL POINT ESTABLISHED - OIC AND LOCATION]  
04:11:14 EARLY VALLEY COMMAND  
04:13:20 Unit WOOL241 [ K2 : IN ATTENDANCE AT INCIDENT]  
04:14:54 Unit CHRI2118 [ KC : UNIT CALLING]  
04:15:37 Unit LEES4311 [ K2 : IN ATTENDANCE AT INCIDENT]  
04:16:23 Unit CANTERBRY1 [ K2 : IN ATTENDANCE AT INCIDENT]  
04:23:28 Unit LINC4111 [ K1 : PROCEEDING TO INCIDENT]  
04:42:42 Unit LINC4111 [ K2 : IN ATTENDANCE AT INCIDENT]  
04:56:38 Unit CHRI2118 [ SITREP : ] CAN WE GET A LIST OF ALL THE APPLIANCES IN ATTENDANCE  
04:56:38 EMAILED THRU  
04:56:47 .  
04:57:00 EMAIL SENT  
05:33:03 Unit RURALSCRF8 [ K1 : PROCEEDING TO INCIDENT]  
05:37:09 Unit RFOSELW4 [ K1 : PROCEEDING TO INCIDENT]  
05:39:51 Unit RFOSELW4 [ K2 : IN ATTENDANCE AT INCIDENT]  
05:40:08 Unit RFOSELW4 [ K2 : IN ATTENDANCE AT INCIDENT]  
05:56:13 Unit RURALSCRF8 [ K1 : PROCEEDING TO INCIDENT]  
06:23:30 Unit ROLL4226 [ K1 : PROCEEDING TO INCIDENT]  
06:37:42 Unit ROLL4226 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:49:20 Unit WOOL241 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
06:51:04 Unit ADDI221 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
06:51:10 Unit CHRI214 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
06:51:21 .  
06:51:43 ADDI221 - DOING CREW CHANGE AND THEN WILL RETURN BACK TO SCENE  
06:55:13 Unit SOCK257 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
07:02:36 Unit CHRI2118 [COMCEN COM : MESSAGE] WE ARE RESPONDING TO THE REPORT OF A  
FIRE  
07:02:36 ABOVE LIVING SPRINGS AND BELOW THE SUMMIT RD - ALLANDALE

07:09:59 Unit CHRI2118 [ KC : UNIT CALLING]  
07:10:50 Unit CHRI2118 [ SITREP : ] SHUTTING DOWN AND LEAVING SCENE  
07:11:37 Unit CHRI2118 [COMCEN COM : MESSAGE] DO YOU HAVE CONTACT WITH HELICOPTERS -  
07:11:37 NEGATIVE IT IS NOW BEING RUN THROUGH A RURAL ICP  
07:15:28 Unit CHRI2118 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
07:20:55 Unit RFOSELW1 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:21:06 Unit RFOSELW1 [ KC : UNIT CALLING]  
07:21:38 Unit REGION4B [ KC : UNIT CALLING]  
07:21:43 Unit WEST9511 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:23:37 Unit RFOSELW1 [COMCEN COM : MESSAGE] CAN YOU GET HELICOPTER TO CHECK  
07:23:37 LIVING SPRINGS AND BELOW THE SUMMIT NEAR THE GOLF BALL - WE HAVE ANOTHER  
07:23:37 REPORT  
07:23:37 OF A FIRE  
07:24:09 Unit RURALSCR8 [ K1 : PROCEEDING TO INCIDENT]  
07:24:33 Unit RFOSELW1 [COMCEN COM : MESSAGE] WE ARE AWARE OF THAT - IT IS WHERE THE  
07:24:33 FIRE  
07:24:33 HAS GONE OVER THE TOP  
07:25:24 Unit RFOSELW1 [ KC : UNIT CALLING]  
07:26:15 Unit RFOSELW1 [ SITREP : ] THE FIRE BELOW THE GOLF BALL - WE ARE AWARE OF THAT  
07:26:15 AND ATTEMPTING TO PUT IT OUT  
07:30:18 Unit ROLL4226 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
07:34:47 Unit SELW9480 [ KC : UNIT CALLING]  
07:35:39 Unit LINC4111 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
07:35:40 Unit SELW9480 [ SITREP : ] THIS CALL SIGN IS THE ICP AND IS CALLED EARLY VALLEY  
07:35:40 COMMAND  
07:37:17 Unit REGION4B [ K6 : ON TELEPAGER]  
07:37:19 Unit LEES4311 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
07:37:44 Unit RURALSCR8 [ K45 : COMMAND RESPONSIBILITY CHANGED TO - NAME] RFO  
07:37:44 ICP AT ROLLESTON SELWYN DISTRICT COUNCIL OFFICE SFP STILL EARLY VALLEY RD /  
07:37:44 OLD  
07:37:44 TAI TAP ROAD  
07:38:59 \*  
07:39:30 [REDACTED] WILL BE BASED AT ROLLESTON FOR NOW  
07:39:32 \*  
07:46:56 Unit CANTERBRY1 [ K6 : ON TELEPAGER]  
07:47:00 \*  
07:47:32 Unit RFOSELW3 [ K1 : PROCEEDING TO INCIDENT]  
07:47:33 CALLER STATED A LADY HAS JUST DROVE PAST HER TELLING HER THERES A FIRE  
07:47:33 LOWER DOWN THE ROAD TOWARDS OLD TAI TAPU RD....ALL THE FIRE SERVICE ARE AT  
07:47:33 THE  
07:47:33 TOP OF THE ROAD  
07:47:35 \*  
07:48:55 Unit SELW9480 [COMCEN COM : MESSAGE] CALLER STATED A LADY HAS JUST DROVE  
07:48:55 PAST  
07:48:55 HER TELLING HER THERES A FIRE STARTED LOWER DOWN THE ROAD TOWARDS OLD  
07:48:55 TAI TAPU  
07:48:55 RD....ALL THE FIRE SERVICE ARE AT THE TOP OF THE ROAD

07:49:24 Unit SELW9480 [ SITREP : ] WILL GET SOMEONE TO CHECK IT NOW  
07:50:31 Unit CHRI2111 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
07:51:53 \*\*  
07:52:10 MESSAGE LEFT FOR ██████████ TO CONTACT COMMS  
07:52:27 MESSAGE LEFT FOR ██████████ TO CONTACT COMMS  
07:52:28 \*\*  
07:54:34 Unit SELW9480 [COMCEN COM : MESSAGE] REQUEST FOR UP TO DATE SITREP  
INCLUDING  
07:54:34 HELICOPTER OPERATIONS  
07:55:15 Unit LINC4126 [ K1 : PROCEEDING TO INCIDENT]  
07:57:27 Unit SELW9480 [ SITREP : ] WE WILL GET BACK TO YOU  
08:04:22 Unit LINC4126 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:09:41 \*\* Cross Referenced to Event # F2245897 at: 14/02/17 08:09:41  
08:09:41 \*\*  
08:20:58 \*  
08:21:24 FROM AC STH CANTY - SSO ██████████ IS ATTENDING FIRE INVESTIGATOR AT REQ  
OF  
08:21:24 RURAL FIRE  
08:21:25 \*  
08:26:40 SSO ██████████ - DRIVING UP IN OWN VEH - NOT FIRE SERVICE VEH - WILL BE GOING  
TO  
08:26:40 THE SELWYN DC EOC  
08:26:46 THEY ARE AWARE HE IS COMING  
08:26:48 \*  
08:29:44 Unit LINC4126 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
08:30:04 Unit RURALSCR8 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:31:01 Unit RFOSELW3 [ K2 : IN ATTENDANCE AT INCIDENT]  
09:12:54 Unit SELW9480 [COMCEN COM : MESSAGE] JUST TO THE EAST OF THE DOME ON THE  
ROCK  
09:12:54 FACE CALLER CAN SEE SOME HELOS DUMPING WATER NEARBY BUT NOT AT THIS FIRE  
09:13:12 Unit SELW9480 [ SITREP : ] WILL PASS IT ON  
09:25:59 Unit SELW9480 [ KC : UNIT CALLING]  
09:28:36 Unit SELW9480 [ SITREP : ] 10 ROTARY HELICOPTERS, 1 FIXED WING, 1 AIR ATTACK  
09:28:36 PLATFORM AND 1 CABRI TRANSPORT  
09:47:56 Unit LINC417 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
09:57:25 Unit LINC4111 [ K1 : PROCEEDING TO INCIDENT]  
10:05:55 Unit SELW9480 [COMCEN COM : MESSAGE] WOODEND OFFICER ON EARLY VALLEY ROAD  
WITH A  
10:05:55 PALET OF FOAM - WHERE DO YOU WANT IT - STANDBY  
10:06:45 Unit SELW9480 [ KC : UNIT CALLING]  
10:07:23 Unit SELW9480 [ SITREP : ] ICP ON OLD TAITAPU ROAD NEAR EARLY CVALLEY RD  
10:07:46 MEASAGE ACK BY ██████████  
10:14:03 Unit ROLL4226 [ K1 : PROCEEDING TO INCIDENT]  
10:14:52 Unit ROLL4226 [ SITREP : ] RESPONDING FOR CREW CHANGE  
10:18:14 Unit SELW9480 [COMCEN COM : MESSAGE] CALLER AT ██████████ EARLY VALLEY RD SAYS  
ANOTHER  
10:18:14 FIRE TOWARDS THE END OF THE ROAD ON THE RIGHT GETTING CLOSE TO HOUSES  
AND IS  
10:18:14 WORRIED

10:20:58 \*  
10:21:02 \*  
10:21:09 \*\* Cross Referenced to Event # F2246014 at: 14/02/17 10:21:09  
10:21:09 \*\*  
10:28:31 Unit LINC4111 [ K2 : IN ATTENDANCE AT INCIDENT]  
10:34:11 Unit ROLL4226 [ K2 : IN ATTENDANCE AT INCIDENT]  
10:34:19 Unit ROLL4226 [ K2 : IN ATTENDANCE AT INCIDENT]  
11:36:54 \*\* Cross Referenced to Event # F2246075 at: 14/02/17 11:36:54  
11:36:54 \*\*  
12:02:23 Unit ROLL4226 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
12:09:02 Unit SELW9480 [ KC : UNIT CALLING]  
12:12:44 Unit SELW9480 [ KC : UNIT CALLING]  
12:13:12 Unit SELW9480 [COMCEN COM : MESSAGE] [REDACTED] EARLUY VALLEY FIRE GETTING REALLY CLOSE  
12:13:12 TO BOUNDARY  
12:13:38 Unit SELW9480 [ SITREP : ] MESSAGE PASSED ON  
12:14:29 Unit ROLL4211 [ KP : PRIORITY MESSAGE]  
12:16:01 Unit ROLL4211 [ KP : PRIORITY MESSAGE] WILL NEED AN APPLIANCE HERE URGENTLY AY  
12:16:01 [REDACTED] EARLY VALLEY RD  
12:16:25 Unit SELW9480 [ KP : PRIORITY MESSAGE] ROLL4211 WILL NEED AN APPLIANCE HERE  
12:16:25 URGENTLY AY [REDACTED] EARLY VALLEY RD  
12:21:32 \*\* Cross Referenced to Event # F2246091 at: 14/02/17 12:21:32  
12:21:32 \*\*  
12:56:52 \*\* Cross Referenced to Event # F2246142 at: 14/02/17 12:56:52  
12:56:52 \*\*  
13:52:27 XXX  
13:53:12 CALL FROM GOVS STN THAT FIRE IN PROGRESSING DOWN TOWARD [REDACTED] MAIN RD FROM THE  
13:53:12 SUMMIT  
13:53:15 XX  
13:53:47 INFO PASSED TO LOGISTICS AND OPS MANAGER ([REDACTED]) AT SELWN EOC  
13:53:50 XXX  
13:53:59 1353 HOURS  
13:54:01 XXX  
14:09:30 Unit RFOSELW1 [ K6 : ON TELEPAGER]  
14:41:31 Unit RFOSELW4 [ K2 : IN ATTENDANCE AT INCIDENT]  
14:41:47 Unit RFOSELW4 [ K6 : ON TELEPAGER]  
15:14:05 \*  
15:14:29 RFO [REDACTED] STILL ON SITE AT THE EOC - IS CONDUCTING INVESTIGATION INTO THE FIRE  
15:14:58 HIS DETAILS PASSED TO DETECTIVE [REDACTED] - CIB  
15:15:00 \*  
15:38:40 Unit RFOSELW3 [ K6 : ON TELEPAGER]  
15:41:25 \*  
15:42:51 Unit SELW9480 [COMCEN COM : MESSAGE] MESSAGE PASSED ABOUT [REDACTED] EARLY VALLEY RD  
15:43:28 Unit SELW9480 [ SITREP : ] ALL HELO ARE GROUNDED AT PRESENT - WILL PASS IT ON  
16:15:21 Unit SELW9480 [COMCEN COM : MESSAGE] SAYS FIRE HAS BROKEN OUT OF GULLY

COMING  
16:15:21 INTO VALLEY ABOVE ADDRESS CAN SEE HELICOPTERS FIGHTING OTHER FIRE BEST ACCESS  
16:15:21 POSSIBLY THROUGH [REDACTED] MAIN RD - ADDRESS IS ABOVE [REDACTED] MAIN RD GOVERNER BAY  
16:15:35 End of Duplicate Event data  
16:15:35 \*\* Cross Referenced to Event # F2246303 at: 14/02/17 16:15:35  
16:15:35 \*\*  
16:42:55 \*\* Cross Referenced to Event # F2246327 at: 14/02/17 16:42:55  
16:42:55 \*\*  
16:45:13 Unit SELW9480 [COMCEN COM : MESSAGE] BEEN CONTACTED BY ANGLECAN CHURCH - THEY  
16:45:13 ARE CONCERNED FIRE GETTING CLOSE TO HISTORIC CHURCH BUILDING  
16:45:32 Unit SELW9480 [ SITREP : ] WILL PASS IT ONTO CONTROLLER  
16:45:51 \*\* Cross Referenced to Event # F2246325 at: 14/02/17 16:45:51  
16:45:51 \*\*  
17:48:20 Unit REGION4B [ K1 : PROCEEDING TO INCIDENT]  
17:48:35 Unit WEST9511 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
17:52:30 \*\*  
17:53:21 MRF [REDACTED] REQUESTS [REDACTED] TO CONTACT HIM ON [REDACTED]  
17:55:53 \*\*  
17:56:15 [REDACTED] CONTACTED VIA CELL PHONE AND PATCHED TO MRF [REDACTED]  
17:56:17 \*\*  
18:08:38 Unit REGION4B [ KC : UNIT CALLING]  
18:09:39 Unit REGION4B [ K2 : IN ATTENDANCE AT INCIDENT]  
18:44:15 6\104 EARLY VALLEY RD  
18:49:16 Unit REGION4B [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
18:56:40 Unit LINC411 [ KC : UNIT CALLING]  
18:57:03 Unit LINC411 [ K10 : RECOMMISSIONING]  
19:00:39 \*\*\*\*\*  
19:01:15 Unit SELW9480 [COMCEN COM : MESSAGE] HAVE HAD A CALL FROM [REDACTED] EV RD..WHERE THE  
19:01:15 HOUSE BURNT DOWN..HAVE A FLARE UP..HAS COME FROM A RESIDENT  
19:01:53 \*\*\*\*\*  
19:02:15 \*\* Cross Referenced to Event # F2246432 at: 14/02/17 19:02:15  
19:02:15 \*\*  
19:14:10 Unit LINC4111 [ SITREP : ] THIS TANKER WILL BE ON SITE OVER NIGHT STAFFED RURAL COUNCIL STAFF.  
19:14:10  
20:18:03 Unit BURN9111 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
21:16:56 Unit ROLL4211 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
21:28:50 Unit RFOSELW2 [ K2 : IN ATTENDANCE AT INCIDENT]  
22:13:14 Unit RURALSCR8 [ K6 : ON TELEPAGER]  
23:07:17 Unit RFOSELW2 [ KC : UNIT CALLING]  
03:30:51 Unit RFOSELW2 [ KC : UNIT CALLING]  
03:32:01 Unit RFOSELW2 [ SITREP : ] LINC4111 FULL OF WATER (FROM LINC CFO - CREW LEAVING STATION SHORTLY TO UPLIFT)  
03:32:01  
03:47:19 Unit LINC4111 [ KC : UNIT CALLING]  
03:48:02 Unit LINC4111 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
06:41:50 \*\* Cross Referenced to Event # F2246650 at: 15/02/17 06:41:50

06:41:50 \*\*  
06:43:07 Unit ADDI221 [ K7 : AT NORMAL STATION]  
06:46:06 Unit SELW9480 [ KC : UNIT CALLING]  
06:47:03 Unit SELW9480 [ SITREP : ] CREWS ON SCENE NOW  
06:47:18 \*\* Cross Referenced to Event # F2246653 at: 15/02/17 06:47:18  
06:47:18 \*\*  
07:31:55 CALLED GOVERNORS BAY FIRE STATION AND ADVISED OF CALLS  
07:31:55 End of Duplicate Event data  
07:31:56 \*\* Cross Referenced to Event # F2246661 at: 15/02/17 07:31:56  
07:31:56 \*\*  
07:32:08 \*\* Cross Referenced to Event # F2246659 at: 15/02/17 07:32:08  
07:32:08 \*\*  
07:45:30 \*\* Cross Referenced to Event # F2246674 at: 15/02/17 07:45:30  
07:45:30 \*\*  
08:01:45 \*  
08:40:37 ...  
08:41:28 FIR2POL - FIRE HAVE REQUESTED YOUR ASSISTANCE WITH EVAC OF PEOPLE AT  
HALSWELL  
08:41:28 QUARRY PARK SO THEY CAN USE THE AREA FOR DIPPING  
09:34:16 \*\*\*  
09:34:33 SELW9480 CELLPHONE CONTACT [REDACTED]  
09:34:36 \*\*  
09:51:01 Unit SELW9480 [COMCEN COM : MESSAGE] INFO RE FIRE AT [REDACTED] HOLMES RD PASSED ON  
09:51:27 \*\* Cross Referenced to Event # F2246771 at: 15/02/17 09:51:27  
09:51:27 \*\*  
10:05:50 .  
10:06:03 SELW9480 UNABLE TO PROVIDE TANKERS TO HOLMES RD  
10:06:05 .  
11:04:39 PHYSICAL LOCATION IS OLD TAI TAPU RD 200M SOUTH OF EARLY VALLEY RD  
11:07:44 HELOS ARE STILL DIPPING FROM HALSWELL QUARRY AND POLICE ARE STILL REQUIRED  
12:10:29 Unit SOUTHCANT2 [ K1 : PROCEEDING TO INCIDENT]  
12:21:19 Unit SELW9480 [ KC : UNIT CALLING]  
12:32:00 Unit SOUTHCANT2 [ KC : UNIT CALLING]  
12:33:14 Unit SOUTHCANT2 [ SITREP : ] WAS THE APPLIANCE THAT JUST PASSED ME  
ROLLESTON ?  
12:33:14 AFFIRM  
12:33:31 Unit SOUTHCANT2 [ K2 : IN ATTENDANCE AT INCIDENT]  
13:00:07 Unit SELW9480 [ KC : UNIT CALLING]  
13:01:01 Unit SOUTHCANT2 [ SITREP : ] HARE261 ARE STAYING HERE - EXTERNAL ALERT THEM  
FOR  
13:01:01 ANY PROPERTY PROTECTION IN THIS AREA  
13:21:34 .  
13:21:50 FROM AAC [REDACTED], CAN THE TIMARU COMMAND UNIT BE RESPONDED TO THIS ICP  
13:21:51 .  
13:49:25 Unit TIMA8018 [ K1 : PROCEEDING TO INCIDENT]  
13:50:24 Unit SELW9480 [ KC : UNIT CALLING]  
13:50:53 Unit SELW9480 [ K32 : ON RADIO TEST - HOW DO YOU RECEIVE]

14:19:15 Unit SELW9480 [ KC : UNIT CALLING]  
14:28:13 Unit TIMA8018 [ K1 : PROCEEDING TO INCIDENT]  
14:29:08 Unit SELW9480 [ KC : UNIT CALLING]  
14:38:04 Unit TIMA8018 [ K1 : PROCEEDING TO INCIDENT]  
14:41:55 Unit SELW9480 [ KC : UNIT CALLING]  
14:43:58 Unit TIMA8018 [COMCEN COM : MESSAGE] CAN YOU RESPOND UNDER LIGHTS  
14:44:57 Unit TIMA8018 [ KC : UNIT CALLING]  
14:46:42 Unit TIMA8018 [ SITREP : ] CELLPHONE DOESNT APPEAR TO BE WORKING, [REDACTED]  
14:46:42 WE CAN BE CALLED ON  
14:52:36 Unit SELW9480 [ KC : UNIT CALLING]  
14:53:20 Unit SELW9480 [ SITREP : ] LEES4311 ON STANDBY FOR STRUCTURES  
14:58:51 Unit SELW9480 [ KC : UNIT CALLING]  
15:04:17 Unit SELW9480 [ KP : PRIORITY MESSAGE]  
15:13:49 Unit SELW9480 [ KC : UNIT CALLING]  
15:16:24 Unit SELW9480 [ KC : UNIT CALLING]  
15:27:35 Unit SELW9480 [ KC : UNIT CALLING]  
15:37:07 Unit SELW9480 [ KC : UNIT CALLING]  
15:43:47 Unit SELW9480 [ KP : PRIORITY MESSAGE]  
15:44:00 .  
15:44:08 K11P EARLY VALLEY RD FOR EVACUATION  
15:46:08 Unit SELW9480 [ KC : UNIT CALLING]  
15:46:30 RURAL FIRE SELWYN 2 AND ROLL427 RESPONDING FOR EVACUATION  
15:47:01 \*\* Event Type changed from FIR2POL to 1F(2) at: 15/02/17 15:47:01  
15:47:01 \*\*  
15:51:40 Unit TIMA8018 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:00:14 \*  
16:04:04 Unit WEST9571 [ KC : UNIT CALLING]  
16:04:39 Unit WEST9571 [ KC : UNIT CALLING]  
16:09:31 EASTERN VALLEY [REDACTED] CLEARERED GOING UP HILL TO [REDACTED]  
16:09:47 OTHER UNITS WORKING THE OTHER SIDE  
16:13:20 \*\* LOI search completed at 15/02/17 16:13:20  
16:15:38 Unit SELW9480 [ KC : UNIT CALLING]  
16:16:08 ROLL427 AND HARE261 WORKING TO EVACUATE EARLY VALLEY RD  
16:16:31 Unit SELW9480 [ SITREP : ] AIR OPS STILL UNABLE TO DROP WATER ON ADVENTURE  
PARK  
16:16:31 CHAIRLIFT  
16:18:48 MESSAGE PASSED TO SUMMIT COMMAND  
16:20:07 Unit SELW9480 [ KC : UNIT CALLING]  
16:20:58 Unit SELW9480 [ SITREP : ] ETA DARF691 1 MIN  
16:27:25 Unit SELW9480 [ KC : UNIT CALLING]  
16:28:43 .  
16:28:44 .  
16:28:47 RESPOND POLICE FOR RUBBER NECKERS - NEED TO CLOSE RD  
16:28:51 [REDACTED] DOWNWARDS ALL CLEAR  
16:34:40 [REDACTED] EARLY VALLEY [REDACTED]  
16:56:25 LINCOLN EVENT CENTRE OPEN FOR DISPLACED PEOPLE

17:04:12 \*\* LOI search completed at 15/02/17 17:04:12  
17:04:12 ;  
17:04:31 CRP31 AT [REDACTED] OLD TAITAPU ROAD,  
17:09:56 CRP43 AT - [REDACTED] TAITAPU ROAD - CLEARING ADDRESS  
17:10:14 \*\* LOI search completed at 15/02/17 17:10:14  
17:20:57 SHEF711 AND PINE1911 EN ROUTE TO ICP  
17:28:38 @1728 - NIL POLICE STAFF CURRENTLY IN AREA  
17:28:59 SOME PEOPLE IN AREA REFUSING TO LEAVE  
17:29:00 ,  
17:39:53 Unit TIMA8018 [ KC : UNIT CALLING]  
17:42:09 Unit TIMA8018 [ K32 : ON RADIO TEST - HOW DO YOU RECEIVE] LOUD AND CLEAR  
17:49:02 [REDACTED] HAS NOW LEFT  
17:50:29 Unit TIMA8018 [ KC : UNIT CALLING]  
17:51:07 Unit TIMA8018 [ SITREP : ] AAC [REDACTED] AT [REDACTED] EARLY VALLEY RD [REDACTED]  
17:51:07 [REDACTED]  
18:01:07 Unit WEST9525 [ KC : UNIT CALLING]  
18:49:05 Unit ROLL4226 [ K38 : ASSOCIATE THIS UNIT TO EVENT - EVENT ADDRESS]  
18:49:09 Unit ROLL4226 [ K39 : RE-TRANSMIT YOUR CURRENT STATUS]  
18:49:10 Unit ROLL4226 [ K1 : PROCEEDING TO INCIDENT]  
18:51:24 Unit ROLL4226 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:52:10 Unit SHEF711 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:52:11 Unit WEST9571 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:54:02 POLICE AT CORDON ASKING IF RESIDENTS CAN RETURN TO EARLY VALLEY ROAD,  
EARLY  
18:54:02 VALLEY ROAD COMMAND UNAWARE,  
18:54:22 RANG EOC SELWYN WHO ADVISES NO RESIDENTS TO RETURN TO EARLY VALLEY RD  
18:54:28 POLICE ADVISED  
18:54:35 Unit SHEF711 [ KC : UNIT CALLING]  
18:54:43 Unit SHEF711 [ KC : UNIT CALLING]  
19:00:20 Unit SHEF711 [ SITREP : ] WE HAVE GOT A WATER SUPPLY SO WE ARE ALL GOOD - WE  
ARE  
19:00:20 GOING BACK TO [REDACTED] HAPPY VALLEY RD  
19:05:48 Unit SOUTHCANT2 [ KC : UNIT CALLING]  
19:07:34 Unit SOUTHCANT2 [ SITREP : ] I AM LEAVING THE EARLY VALLEY COMMAND UNIT TO  
HEAD  
19:07:34 BACK TO TIMARU AND I WILL RETURN IN THE MORNING  
19:14:56 Unit WEST9525 [ KC : UNIT CALLING]  
19:15:41 Unit WEST9525 [ SITREP : ] JUST WONDERING IF WE ARE ABLE TO GET A VISUAL FROM A  
19:15:41 HELI FOR [REDACTED] EARLY VALLEY RD - HEAR THE FIRE IS COMING THROUGH AND THE  
CHOPPERS  
19:15:41 ARE FLYING ABOVE IT  
19:16:12 \*\*  
19:18:12 \*\*  
19:18:38 CREWS ON SCENE REQUEST VISUAL FROM HELI FOR [REDACTED] EARLY VALLEY RD - HEAR THE  
FIRE  
19:18:38 IS COMING THROUGH AND THE CHOPPERS  
19:25:27 Unit SOUTHCANT2 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:40:17 Unit WEST9571 [ KC : UNIT CALLING]

19:40:54 Unit WEST9571 [ SITREP : [REDACTED] EARLY VALLEY - RD - THOSE CHOPPERS ARE DOING  
19:40:54 EXTACTLY WHAT WE WANT - THANK YOU  
19:56:41 Unit LINCCFO [ K2 : IN ATTENDANCE AT INCIDENT]  
19:59:27 Unit LINCCFO [ SITREP : ] I AM NOW AT EARLY VALLEY COMMAND  
20:09:25 Unit TIMA8018 [ KC : UNIT CALLING]  
20:14:25 .  
20:14:31 CASHMERE/SUTHERLANDS ROAD  
20:14:33 PEOPLE IN AREA  
20:14:41 FIRE HEADING TOWARDS THEM  
20:14:59 .  
20:15:37 CRP44 10/2 THIS LOCATION TO MOVE THEM ON  
20:23:56 Unit SHEF711 [ KC : UNIT CALLING]  
20:25:58 .  
20:26:34 Unit SHEF711 [ SITREP : ] WE ARE AT [REDACTED] EARLY VALLEY RD - WE CAN SEE THE FLAMES  
20:26:34 COMING UP THROUGH THE TREES - DO YOU WANT US TO MOVE TO THE SOUTH EAST  
AND  
20:26:34 CONTINUE TO PROTECT THE HOUSES - [UP TO YOU POSITIONING OF YOUR APPLIANCE]  
- ACK  
20:26:34 WE WILL GO ABOUT 3 HOUSES UP  
20:43:10 Unit SHEF711 [ KC : UNIT CALLING]  
20:43:37 Unit SHEF711 [ SITREP : ] HAVE MOVED TO [REDACTED] ON THAT ROAD - FIRE IS REALLY  
20:43:37 BREAKING UP ON TOP OF THE HILL  
20:46:04 Unit SHEF711 [COMCEN COM : MESSAGE] WE NEED 1 MORE TANKER - WE HAVE LEFT A  
CONE  
20:46:04 - WE HAVE A TANKER COMING BACK  
20:49:56 Unit SHEF711 [ KC : UNIT CALLING]  
20:50:45 Unit SHEF711 [ SITREP : ] WE HAVE HAD A GOOD LOOK AT THAT BRIDGE - IT IS TOO  
20:50:45 SUSPECT FOR THEM TO COME OVER - THEY WOULD HAVE TO STOP ON THEIR SIDE AND  
NOT GO  
20:50:45 OVER THE BRIDGE  
20:52:31 AL: PAGING ACK RECEIVED FROM STATION 3573 at 15/02/17 20:52:31  
20:55:50 Unit SHEF711 [ KC : UNIT CALLING]  
20:56:58 Unit RANG7611 [ K1 : PROCEEDING TO INCIDENT]  
20:57:00 Unit LEES4311 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:57:04 Unit RANG7611 [ K1 : PROCEEDING TO INCIDENT]  
20:57:09 Unit LEES4311 [ SITREP : ] WE ARE ON EARLY VALLEY RD NOW  
20:58:04 Unit HORO7311 [ K1 : PROCEEDING TO INCIDENT]  
20:58:59 \*  
20:59:19 FROM EARLY VALLEY COMMAND WE HAVE SOME RURAL UNITS HEADING TO EARLY  
VALLEY ROAD  
20:59:19 NOW  
20:59:20 \*  
21:00:44 Unit HORO7311 [ KC : UNIT CALLING]  
21:00:46 Unit HORO7311 [COMCEN COM : MESSAGE] SOMEONE WILL MEET YOU AT THE  
GATE....DONT  
21:00:46 GO DOWN THE DRIVEWAY AS YOU MAY NOT BE ABLE TO TURN ROUND  
21:01:11 Unit HORO7311 [ K35 : VERIFY ADDRESS OF EVENT] [REDACTED] EARLY VALLEY RD  
21:03:22 ##  
21:03:24 Unit RANG7611 [ KC : UNIT CALLING]

21:04:38 Unit RANG7611 [ K35 : VERIFY ADDRESS OF EVENT] [REDACTED]  
21:06:54 [REDACTED] ADVISES FIRE HAS JUMPED DYERS PASS RD, ANY CREWS USING DYERS  
PASS RD  
21:06:54 MUST WEAR BA. ADVISE EARLY VALLEY COMMAND VICTORIA PARK IS BEING  
EVACUATED  
21:06:59 @@  
21:15:54 Unit SELW9480 [COMCEN COM : MESSAGE] PASSED ABOVE MESSAGE FROM AC BOERE  
21:33:19 Unit RANG7611 [ KC : UNIT CALLING]  
21:33:49 Unit RANG7611 [ SITREP : ] JUST TURNING ON TO EARLY VALLEY RD AS REQ DURING  
21:33:49 TURNOUT  
21:35:29 Unit RANG7611 [ K2 : IN ATTENDANCE AT INCIDENT]  
21:35:35 Unit RANG7611 [ K2 : IN ATTENDANCE AT INCIDENT]  
21:40:31 Unit HORO7311 [ K2 : IN ATTENDANCE AT INCIDENT]  
23:42:38 Unit RFOSELW2 [ KC : UNIT CALLING]  
23:43:52 Unit RFOSELW2 [ SITREP : ] COULD YOU PLEASE CALL UP ADDINGTON AND DISPATCH  
THEM  
23:43:52 FROM WHERE THEY ARE AT [REDACTED] OLD TAI TAP RD AND GET THEM TO HEAD ROUND TO  
WORSLEYS  
23:43:52 RD  
23:48:00 Unit RFOSELW2 [ KC : UNIT CALLING]  
23:48:43 Unit RFOSELW2 [ SITREP : ] MY APOLOGIES - IT WAS HARE261 - THEY ARE AT [REDACTED] OLD  
23:48:43 TAI TAP RD - GET THEM TO REDEPLO TO WORSLEYS RD  
23:56:18 Unit LEES4311 [ K2 : IN ATTENDANCE AT INCIDENT]  
23:57:07 Unit LEES4311 [ KC : UNIT CALLING]  
23:57:35 Unit LEES4311 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
00:20:16 Unit RANG7611 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
00:38:07 Unit TIMA8018 [ KC : UNIT CALLING]  
00:39:48 Unit WEST7311 [ K7 : AT NORMAL STATION]  
00:39:55 Unit TIMA8018 [ SITREP : ] WE HAVE ON THE FIREGROUND - WEST9571 WEST9511,  
00:39:55 SHEFF711, LINC411, HORO7311  
00:40:21 Unit WEST9511 [ K2 : IN ATTENDANCE AT INCIDENT]  
01:17:31 CRP43 10.0 - UNIT WITH CCDJ14 TAKING OVER  
01:45:53 Unit TIMA8018 [ KC : UNIT CALLING]  
01:47:37 Unit TIMA8018 [ SITREP : ] COULD WE HAVE POWER AUTH - [REDACTED] OLD TAI TAP RD - TO  
01:47:37 ASCERTAIN SAFETY OF POWER CABLES DROOPING OVER ACCESS WAY  
01:50:28 Unit TIMA8018 [COMCEN COM : MESSAGE] I HAVE JUST EMAILED YOU AN UPDATED LIST  
OF  
01:50:28 APPLIANCES - BE ADV THAT LINC417 IS RESPONDING TO REPLACE SOCK257  
01:50:38 .  
01:50:43 DISREGARD ABOVE  
01:50:44 .  
01:51:11 ##  
01:55:13 Unit HORO7311 [ KC : UNIT CALLING]  
01:56:52 Unit VICT1811 [ K2 : IN ATTENDANCE AT INCIDENT]  
01:57:33 Unit HORO7311 [COMCEN COM : MESSAGE] ARE YOU TRYING TO CONTACT VICTORIA  
PARK ?  
01:57:51 Unit HORO7311 [COMCEN COM : MESSAGE] AFFIRM - JUST TRYING TO CONFIRM THEIR  
01:57:51 CURRENT LOCATION  
01:58:21 Unit HORO7311 [ SITREP : ] ACK - I CAN'T FIGURE OUT THEIR RADIO - BUT THEY ARE

01:58:21 WITH US HERE AT [REDACTED] EARLY VALLEY RD - EARLY VALLEY COMMAND  
02:21:29 Unit TIMA8018 [ KC : UNIT CALLING]  
02:22:32 Unit TIMA8018 [ SITREP : ] CAN YOU GET RMA [REDACTED] TO CONTACT US BY PHONE  
02:25:37 \*\*  
02:25:59 EARLY VALLEY COMMAND PATCHED TO [REDACTED]  
02:26:01 \*\*  
02:30:13 Unit TIMA8018 [ KC : UNIT CALLING]  
02:31:15 Unit TIMA8018 [ SITREP : ] POINT WILL BE SHUTTING DOWN AND RETURNING TO CITY  
02:31:15 STATION  
02:39:04 Unit LINCCFO [ K6 : ON TELEPAGER]  
02:53:23 Unit TIMA8018 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
02:58:44 Unit SHEF711 [ KC : UNIT CALLING]  
03:00:27 Unit SHEF711 [ SITREP : ] WE HAVE [REDACTED] EARLY VALLEY RD - THE FIRE IS AT THE BACK  
03:00:27 OF THE SHED UP HERE - I DON'T THINK THERE IS A COMMAND CENTRE SETUP ANY  
MORE -  
03:00:27 WE NEED SOMEONE TO COME UP - RURAL  
03:00:32 Unit RFOSELW2 [ KC : UNIT CALLING]  
03:01:28 Unit RFOSELW2 [ SITREP : ] I THINK I CUT OVER YOU - IS THAT [REDACTED] EARLY VALLEY RD  
03:01:54 Unit RFOSELW2 [COMCEN COM : MESSAGE] AFFIRM - SHEFF711 IS AT EARLY VALLEY RD -  
03:01:54 FIRE AT THE BACK OF THE SHED - THEY WANT SOMEONE TO ATTEND RURAL  
03:02:10 Unit RFOSELW2 [ SITREP : ] ACK - I'M HERE - I'LL GO UP  
03:34:27 Unit RFOSELW2 [ KC : UNIT CALLING]  
03:35:58 Unit RFOSELW2 [ SITREP : ] JUST WANTED TO GIVE YOU A SITREP FOR WHERE SHEFF711  
03:35:58 ARE - FIRE BEHIND THE SHED - THEY HAVE SAVED ANOTHER STRUCTURE  
03:38:03 Unit RFOSELW2 [ KC : UNIT CALLING]  
03:38:38 Unit RFOSELW2 [ SITREP : ] [REDACTED] EARLY VALLEY RD - WHERE SHEFF WERE - THEY HAVE  
03:38:38 MANAGED TO SAVE THE FIRE BEHIND THE SHED AND SAVE THE STRUCTURE  
04:05:32 Unit RFOSELW2 [ KP : PRIORITY MESSAGE]  
04:05:57 Unit RFOSELW2 [ SITREP : ] WRONG BUTTON  
04:50:30 Unit SHEF711 [ KC : UNIT CALLING]  
04:51:16 Unit SHEF711 [ SITREP : ] WE HAVE JUST BEEN RELEASED FROM THE FIREGROUND AT  
04:51:16 EARLY VALLEY RD - WE WILL GO K22-1 AND HEAD HOME  
04:59:16 Unit SHEF711 [ KC : UNIT CALLING]  
05:05:34 Unit SHEF711 [ SITREP : ] CAN YOU CONTACT US BY PHONE  
05:16:45 Unit SHEF711 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
05:31:42 Unit HORO7311 [ KC : UNIT CALLING]  
05:32:52 Unit HORO7311 [ SITREP : ] VICT1811 OUTSIDE [REDACTED] EARLY VALLEY RD HAS A FLAT  
05:32:52 BATTERY  
05:34:23 Unit RFOSELW2 [COMCEN COM : MESSAGE] VICT1811 OUTSIDE [REDACTED] EARLY VALLEY RD  
05:34:23 HAS A  
05:34:23 FLAT BATTERY CAN YOU ASSIST? [ WERE LOOKING FOR JUMP LEADS]  
05:48:58 Unit HORO7311 [ KC : UNIT CALLING]  
05:49:24 Unit HORO7311 [ K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]  
05:54:35 \*  
05:54:49 TIMA801 WILL BE ATTENDING APPROX 08:00  
05:55:19 Unit RURALSCRF2 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
05:59:18 Unit RURALSCRF2 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]

05:59:26 Unit SOUTHCANT2 [ K1 : PROCEEDING TO INCIDENT]  
06:15:10 Unit HORO7311 [ K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]  
06:20:00 Unit RFOSELW4 [ K1 : PROCEEDING TO INCIDENT]  
06:38:51 Unit SOUTHCANT2 [ K1 : PROCEEDING TO INCIDENT]  
07:10:23 JUST TO THE EAST OF THE DOME ON THE ROCK FACE  
07:10:23 CALLER CAN SEE SOME HELOS DUMPING WATER NEARBY BUT NOT AT THIS FIRE  
07:10:23 \*\* Event held for 180 minutes  
07:10:23 \*\* Event held for 120 minutes  
07:10:23 INC INFO: FIRE ALLANDALE SIDE  
07:10:23 \*\* Event held for 373 minutes  
07:10:23 \*\* Event held for 255 minutes  
07:10:23 \*\* Event held for 360 minutes  
07:10:23 \*\* Event held for 300 minutes  
07:10:25 End of Duplicate Event data  
07:10:25 \*\* Cross Referenced to Event # F2245723 at: 16/02/17 07:10:25  
07:10:25 \*\*  
07:14:51 \*\* Cross Referenced to Event # F2247164 at: 16/02/17 07:14:51  
07:14:51 \*\*  
07:15:39 \*\* Cross Referenced to Event # F2247216 at: 16/02/17 07:15:39  
07:15:39 \*\*  
07:41:29 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:48:03 Unit HURU0977 [ K1 : PROCEEDING TO INCIDENT]  
07:51:36 Unit HURU0977 [ K1 : PROCEEDING TO INCIDENT]  
07:52:04 Unit HURU0977 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:53:57 Unit TIMA8029 [ K1 : PROCEEDING TO INCIDENT]  
07:55:23 Unit HORO7311 [ KC : UNIT CALLING]  
07:55:32 Unit HORO7311 [ KC : UNIT CALLING]  
07:56:44 Unit TIMA802 [ K1 : PROCEEDING TO INCIDENT]  
07:57:25 Unit TIMA8018 [ K7 : AT NORMAL STATION]  
07:57:55 Unit TIMA8018 [ K9 : OFF RT - STATE LOCATION]  
08:02:03 Unit TIMA8018 [ K1 : PROCEEDING TO INCIDENT]  
08:06:34 Unit SOUTHCANT2 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:24:26 Unit TIMA8018 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:34:36 Unit TIMA8018 [ KC : UNIT CALLING]  
08:34:48 Unit TIMA8018 [ KC : UNIT CALLING]  
08:41:21 Unit TIMA802 [ K1 : PROCEEDING TO INCIDENT]  
08:41:25 Unit TIMA8018 [ KC : UNIT CALLING]  
08:42:18 Unit TIMA8018 [ SITREP : ] RFO REQUEST POLICE ATTEND FOR AN ESCORT TO PROCEED  
08:42:18 SOMEWHERE  
08:50:58 Unit TIMA802 [COMCEN COM : MESSAGE] YOU HAVE NOW BEEN REQUESTED TO  
RESPOND TO  
08:50:58 CHCH CITY STATION  
08:52:17 Unit SOUTHCANT2 [ SITREP : ] GET TIMA802 TO RESPOND TO CITY STATION .... NOT  
08:52:17 REQUIRED AT EARLY VALLEY COMAND  
08:55:26 Unit RFOSELW4 [ K2 : IN ATTENDANCE AT INCIDENT]  
09:32:52 Unit TIMA8018 [COMCEN COM : MESSAGE] ALL APPLIANCES UNDER YOUR DIRECTION TO  
BE

09:32:52 ADVISED POWER IS ON ..... HIGH KVA AND TRANSFORMER REMAIN 20 MTRS AWAY

09:34:02 Unit TIMA802 [ K1 : PROCEEDING TO INCIDENT]

09:48:49 Unit TIMA802 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]

10:13:05 Unit TIMA8029 [ K2 : IN ATTENDANCE AT INCIDENT]

10:46:34 \*\* Cross Referenced to Event # P028523673 at: 16/02/17 10:46:34

10:46:34 \*\*

13:32:33 Unit TIMA8029 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]

14:29:56 Unit HORO7311 [ K2 : IN ATTENDANCE AT INCIDENT]

14:35:52 Unit TIMA8018 [ KC : UNIT CALLING]

14:37:10 Unit TIMA8018 [ KC : UNIT CALLING]

14:37:36 Unit TIMA8018 [ SITREP : ] RESPOSTIONING TO SIGN OF THE KIWI

14:44:11 Unit TIMA8018 [COMCEN COM : MESSAGE] BE ADVIED SENDING 401 417 TO EARLY

14:44:11 VALLEY RD HOUSE FIRE

14:44:29 Unit TIMA8018 [ KC : UNIT CALLING]

14:45:47 Unit RFOSELW2 [ KC : UNIT CALLING]

14:45:55 Unit RFOSELW2 [ KC : UNIT CALLING]

14:46:03 Unit RFOSELW2 [ KC : UNIT CALLING]

14:46:40 Unit SOUTHcant2 [ KC : UNIT CALLING]

14:51:43 Unit TIMA8018 [ SITREP : ] DO YOU HAVE A 4 WD TANKER AVAILABLE TO GO TO

14:51:43 KENNEDYS

14:51:43 BUSH RD

14:54:51 Unit TIMA8018 [ KC : UNIT CALLING]

14:56:44 Unit TIMA8018 [ KC : UNIT CALLING]

14:58:54 Unit TIMA8018 [COMCEN COM : MESSAGE] UNABLE TO CONTACT SECTOR COMMAND FOR

14:58:54 4WD

14:58:54 TANKER

14:58:55 Unit TIMA8018 [ KC : UNIT CALLING]

14:59:45 Unit TIMA8018 [ SITREP : ] WE HAVE CREW HEADING TOWARDS 4WD TANKER .... WILL

14:59:45 CONTACT ONCE ON BOARD

15:02:01 Unit WEST9571 [ KC : UNIT CALLING]

15:05:00 Unit SOUTHcant2 [ SITREP : ] [BY PHONE] TIMA8018 RELOCATING TO SIGN OF THE KIWI

15:06:08 COVERING UNIT LINC417 DISPATCHED TO STATION SOCKBURN AT

15:06:08 D0730062

15:13:09 Unit TIMA8018 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]

15:19:27 Unit SCAR9225 [ K2 : IN ATTENDANCE AT INCIDENT]

15:28:23 Unit SOUTHcant2 [ K6 : ON TELEPAGER]

15:48:55 Unit SELW9480 [ KC : UNIT CALLING]

15:49:03 Unit SELW9480 [ KC : UNIT CALLING]

16:17:12 Unit SELW9480 [COMCEN COM : MESSAGE] DO YOU KNOWN ABOUT THE FLARE UP AT

16:17:12 THE END

16:17:12 EARLY VALLEY RD ...

16:18:16 Unit SELW9480 [ SITREP : ] DONT KNOW ABOUT IT PERSONNALLY ... BUT I AM SURE AIR

16:18:16 OPS WILL CHECK IT OUT ..... AIR OPS HAVING A LOOK AT IT NOW

16:26:44 Unit HURU0977 [ KC : UNIT CALLING]

16:31:48 Unit HURU0977 [ KP : PRIORITY MESSAGE]

16:40:12 \*\* ELOI search completed at 16/02/17 16:15:10 - 1 result

16:40:12 \*\* LOI search completed at 16/02/17 16:15:13

16:40:12 AIR OPS LOOKING AT IT NOW FROM EARLY VALLEY OPS .... SELW9480  
16:40:12 \*\* Cross Referenced to Event # F2247998 at: 16/02/17 16:18:59  
16:40:12 \*\*  
16:40:13 End of Duplicate Event data  
16:40:14 \*\* Cross Referenced to Event # F2248003 at: 16/02/17 16:40:14  
16:40:14 \*\*  
16:40:50 FROM RFO WAIMAK 1 CHECKED FIRE NSOF [REDACTED]  
17:45:48 Unit SELW9480 [COMCEN COM : MESSAGE] DO YOU REQUIRE HORO7311 (WILL CHECK WITH  
17:45:48 SECTOR SUPERVISOR  
17:46:13 Unit SELW9480 [ KC : UNIT CALLING]  
17:47:46 Unit SELW9480 [ SITREP : ] HORO7311 TO REPORT TO STAGING AREA WHEN READY  
18:01:10 Unit HORO7311 [ KC : UNIT CALLING]  
18:16:17 AMBO EVENT 0362-3-2017/02/16-FIR LINKED AT 16/02/2017 18:16:18  
18:17:02 AMBO update to 0362-3-2017/02/16-FIR:  
18:17:04 Location = Early Valley Rd,LANSDOWNE,  
18:17:05 Caller Name = COXCO HOLDINGS LIMITED, Caller Address = TELECOM CELLULAR 027,  
18:17:05 BLENHEIM, MARLBOROUGH DISTRICT, Caller Phone = [REDACTED], Headline = SCRUB  
18:17:05 FIRE  
18:17:07 EXTERNAL EVENT CLOSED BY EXTERNAL AGENCY  
18:17:09 Problem changed to: NOTIFICATION - Notification  
18:22:58 \*\* Cancel Event:Event Canceled by InterCAD  
18:22:58 Incident Closed. Reason: 015 COMMS Duplicate Call  
18:34:09 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:48:06 Unit HORO7311 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
18:58:44 Unit SELW9480 [ KC : UNIT CALLING]  
18:59:49 Unit SELW9480 [COMCEN COM : MESSAGE] WE HAVE HAD A CALL STATING SMOKE  
18:59:49 SHOWING  
18:59:49 FROM THE [REDACTED] PROPERTY - AT THE VERY END OF EARLY VALLEY RD - DO YOU  
18:59:49 HAVE  
18:59:49 ANY UNITS IN THAT AREA TO INV  
18:59:57 Unit SELW9480 [ SITREP : ] OUR SECTOR SUPERVISOR IS ON TOP OF THAT AND  
18:59:57 ASSESSING  
18:59:57 THE SITUATION FROM THE AIR  
19:33:08 \*\* Cross Referenced to Event # F2248086 at: 16/02/17 19:33:08  
19:33:08 \*\*  
19:41:26 Unit RFOSELW4 [ K6 : ON TELEPAGER]  
19:52:29 Unit SCAR9225 [ KC : UNIT CALLING]  
19:53:02 Unit SCAR9225 [ SITREP : ] WE HAVE LEFT THE FIRE AND ARE STAYING AT BURNHAM  
19:53:02 CAMP  
19:53:02 TONIGHT  
19:53:10 Unit SCAR9225 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:04:41 Unit BOTT1711 [ K7 : AT NORMAL STATION]  
20:18:34 Unit SELW9480 [ KC : UNIT CALLING]  
20:20:59 Unit SELW9480 [ SITREP : ] LETTING YOU KNOW WE ARE POWERING DOWN OUR VEH AND  
20:20:59 MOVING TO OUR NEW SITE - HALSWELL QUARRY  
20:21:40 Unit WEST9511 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:23:34 Unit SELW9480 [ KC : UNIT CALLING]

20:23:37 Unit WEST9511 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:23:39 Unit RURALCHCH3 [ K7 : AT NORMAL STATION]  
20:23:45 Unit WEST9511 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:25:26 Unit SELW9480 [COMCEN COM : MESSAGE] BEFORE YOU LEAVE - CAN YOU CONFIRM THE  
20:25:26 APPLIANCES IN ATTENDANCE  
20:30:23 Unit RFOSELW2 [ SITREP : ] THIS APPLIANCE IS BEING USED A S TROOP CARRIER -  
20:30:23 SELW9475 -SELW9476 - WEST9525 AND VICT1811 ARE IN ATTENDANCE  
22:40:04 Unit WEST9525 [ KC : UNIT CALLING]  
22:41:31 Unit WEST9525 [COMCEN COM : MESSAGE] NOTHING HEARD  
01:07:13 Unit WEST9511 [ K2 : IN ATTENDANCE AT INCIDENT]  
05:27:12 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
05:27:14 Unit BOTT1711 [ K38 : ASSOCIATE THIS UNIT TO EVENT - EVENT ADDRESS]  
06:01:53 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:07:29 Unit SWAN1725 [ K1 : PROCEEDING TO INCIDENT]  
06:37:13 Unit SWAN1725 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:39:36 Unit BURN9111 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:30:37 Unit SCAR9225 [ K38 : ASSOCIATE THIS UNIT TO EVENT - EVENT ADDRESS]  
07:30:42 Unit SCAR9225 [ K39 : RE-TRANSMIT YOUR CURRENT STATUS]  
07:31:14 Unit SCAR9225 [ K1 : PROCEEDING TO INCIDENT]  
07:32:01 Unit SCAR9225 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:40:27 Unit BURN9160 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:40:29 Unit BURN9160 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:40:42 Unit BURN9160 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:41:09 Unit BURN9160 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:41:56 Unit HURU0977 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:59:00 Unit PEEL5211 [ K2 : IN ATTENDANCE AT INCIDENT]  
09:20:11 Unit WEST9571 [ K2 : IN ATTENDANCE AT INCIDENT]  
09:55:52 Unit SELW9480 [ SITREP : ] CAN WE HAVE A SITREP  
09:58:28 Unit SELW9480 [ SITREP : ] YOU WILL HAVE TO GO THROUGH THE SELWYN EOC  
10:10:35 Unit BOTT1760 [ K2 : IN ATTENDANCE AT INCIDENT]  
10:41:39 Unit HIND9311 [ K2 : IN ATTENDANCE AT INCIDENT]  
10:41:40 Unit SPRI7411 [ K2 : IN ATTENDANCE AT INCIDENT]  
13:25:53 Unit CLAN5311 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:59:06 Unit SCAR9225 [ KC : UNIT CALLING]  
16:59:32 Unit SCAR9225 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
17:09:42 Unit SELW9476 [ K7 : AT NORMAL STATION]  
17:21:58 Unit WEST9511 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
17:31:21 Unit WEST9571 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
17:43:09 Unit BURN9111 [ KC : UNIT CALLING]  
17:43:36 Unit BURN9111 [ SITREP : ] WE ARE LEAVING SCENE  
17:51:32 Unit BURN9111 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
18:54:06 Unit HURU0977 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:13:09 Unit SWAN1725 [ K7 : AT NORMAL STATION]  
19:24:31 Unit CLAN5311 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:45:01 Unit HIND9311 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
20:15:21 Unit BOTT1711 [ K7 : AT NORMAL STATION]

20:25:54 Unit RFOSELW2 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
 21:14:13 Unit PEEL5211 [ K7 : AT NORMAL STATION]  
 21:38:16 \*\* Cross Referenced to Event # F2248734 at: 17/02/17 21:38:16  
 21:38:16 \*\*  
 21:39:02 \*\* Cross Referenced to Event # F2248844 at: 17/02/17 21:39:02  
 21:39:02 \*\*  
 05:24:49 Unit ARTH9625 [ K1 : PROCEEDING TO INCIDENT]  
 05:24:50 Unit HIND9311 [ K1 : PROCEEDING TO INCIDENT]  
 05:24:50 Unit LAUR8871 [ K1 : PROCEEDING TO INCIDENT]  
 05:24:51 Unit PEND8911 [ K1 : PROCEEDING TO INCIDENT]  
 05:25:02 +++++  
 05:26:13 ARTH9625, LAUR8871, HIND9311, PEND8911 WERE ATTACHED TO THE WRONG INCIDENT  
 05:26:13 (F2247149) SO THERE K1 TIME IS INCORRECT  
 05:26:16 +++++  
 05:27:48 Unit ASHB9011 [ K1 : PROCEEDING TO INCIDENT]  
 05:27:57 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
 05:31:53 Unit ASHB622 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
 05:49:32 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
 06:00:31 Unit ARTH9625 [ K2 : IN ATTENDANCE AT INCIDENT]  
 06:06:30 Unit PEND8911 [ K2 : IN ATTENDANCE AT INCIDENT]  
 06:06:39 Unit PEND8911 [ K2 : IN ATTENDANCE AT INCIDENT]  
 06:06:42 Unit PEND8911 [ K2 : IN ATTENDANCE AT INCIDENT]  
 06:06:56 Unit PEND8911 [ K2 : IN ATTENDANCE AT INCIDENT]  
 06:40:27 Unit ASHB9011 [ K2 : IN ATTENDANCE AT INCIDENT]  
 07:56:14 Unit LAUR8871 [ K2 : IN ATTENDANCE AT INCIDENT]  
 09:20:53 Unit HIND9311 [ K2 : IN ATTENDANCE AT INCIDENT]  
 19:30:28 Unit ARTH9625 [ KC : UNIT CALLING]  
 19:32:07 Unit ARTH9625 [ K2 : IN ATTENDANCE AT INCIDENT]  
 19:32:15 Unit ARTH9625 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
 19:32:34 Unit ARTH9625 [ K0 : NOT AVAILABLE] WILL BE IN CHCH OVERNIGHT 18/02  
 19:38:39 Unit LAUR8871 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
 19:46:43 Unit HIND9311 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
 19:56:58 Unit PEND8911 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
 20:25:31 Unit BOTT1711 [ K7 : AT NORMAL STATION]  
 21:04:58 Unit ASHB9011 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
 04:49:50 Unit PEEL5211 [ K1 : PROCEEDING TO INCIDENT] (ENTERED BY FIRECOM)  
 04:52:47 Unit SCAR9225 [ K1 : PROCEEDING TO INCIDENT]  
 04:58:54 Unit HURU0977 [ KC : UNIT CALLING]  
 04:59:24 Unit HURU0977 [ SITREP : ] CAN YOU PLEASE PUT US K1 TO THIS CALL  
 04:59:38 Unit HURU0977 [ K1 : PROCEEDING TO INCIDENT] (ENTERED BY FIRECOM)  
 05:04:22 Unit HIND9311 [ K1 : PROCEEDING TO INCIDENT]  
 05:06:18 Unit PEND8911 [ K1 : PROCEEDING TO INCIDENT]  
 05:08:48 Unit LAUR8871 [ K1 : PROCEEDING TO INCIDENT]  
 05:25:06 Unit ASHB9011 [ K1 : PROCEEDING TO INCIDENT]  
 05:26:06 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
 05:28:41 Unit AMBE4825 [ K1 : PROCEEDING TO INCIDENT]

05:32:08 Unit BOTT1711 [ KC : UNIT CALLING]  
05:33:04 Unit BOTT1711 [ SITREP : ] PUSHED IN ERROR  
05:39:20 Unit PEEL5211 [ K1 : PROCEEDING TO INCIDENT]  
05:50:44 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
05:53:13 Unit ARTH9625 [ K1 : PROCEEDING TO INCIDENT]  
06:13:06 Unit LAUR8871 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:14:48 Unit PEND8911 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:15:16 Unit ARTH9625 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:27:05 Unit HURU0977 [ KC : UNIT CALLING]  
06:27:57 Unit SCAR9225 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:28:55 Unit HURU0977 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:40:38 Unit HIND9311 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:05:41 Unit OXFO7911 [ K7 : AT NORMAL STATION]  
08:20:13 Unit PEEL5211 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:35:11 Unit AMBE4825 [ K2 : IN ATTENDANCE AT INCIDENT]  
09:42:35 Unit ASHB9011 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:53:56 Unit SCAR9225 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:29:04 Unit HURU0977 [ KC : UNIT CALLING]  
19:29:55 Unit AMBE4825 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:29:57 Unit HURU0977 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:05:11 Unit PEND8911 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:05:37 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:18:51 Unit LAUR8871 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:23:14 Unit ASHB9011 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:48:49 Unit HIND9311 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:59:11 Unit HARE261 [ K2 : IN ATTENDANCE AT INCIDENT]  
23:59:30 AL: PAGING ACK RECEIVED FROM STATION 3426 at 19/02/17 23:59:30  
02:07:16 Unit HARE261 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
04:14:57 Unit TEMU8629 [ K1 : PROCEEDING TO INCIDENT]  
04:15:09 Unit AORA5475 [ K1 : PROCEEDING TO INCIDENT]  
05:03:07 Unit HURU0977 [ K1 : PROCEEDING TO INCIDENT]  
05:03:41 Unit RANG5111 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
05:04:12 Unit RANG5111 [ K1 : PROCEEDING TO INCIDENT]  
05:10:19 Unit LAUR8871 [ K1 : PROCEEDING TO INCIDENT]  
05:15:34 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
05:22:07 Unit AORA5475 [ K1 : PROCEEDING TO INCIDENT]  
05:22:18 Unit AORA5475 [ K1 : PROCEEDING TO INCIDENT]  
05:23:30 Unit METH6329 [ K1 : PROCEEDING TO INCIDENT]  
05:28:53 Unit TEMU8629 [ K1 : PROCEEDING TO INCIDENT]  
05:45:07 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:04:58 Unit ALFO8611 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:10:03 Unit AORA5475 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:17:54 Unit METH6329 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:18:03 Unit ALFO8611 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:31:33 Unit TEMU8629 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:27:53 Unit HURU0977 [ K2 : IN ATTENDANCE AT INCIDENT]

08:08:59 Unit LAUR8871 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:15:29 Unit VICT1811 [ KP : PRIORITY MESSAGE]  
08:16:42 Unit VICT1811 [ KP : PRIORITY MESSAGE] NOTHING HEARD  
08:22:42 Unit AORA5475 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:46:02 Unit RANG5111 [ K2 : IN ATTENDANCE AT INCIDENT]  
19:20:13 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:22:31 Unit HURU0977 [ K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]  
19:35:03 Unit METH6329 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:00:40 XX  
21:00:22 Unit HURU0977 [ K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]  
21:24:05 Unit HURU0977 [ K7 : AT NORMAL STATION]  
21:24:40 Unit ARTH9625 [ K2 : IN ATTENDANCE AT INCIDENT]  
05:31:29 Unit WAIK1825 [ K1 : PROCEEDING TO INCIDENT]  
06:31:15 Unit WAIK1825 [ K2 : IN ATTENDANCE AT INCIDENT]  
08:40:14 Unit SELW9480 [ SITREP : ] SELWRFO - HELICOPTER HAS CIRCLE CASS PEAK  
09:02:03 Unit WEST9571 [ KC : UNIT CALLING]  
09:02:19 Unit WEST9571 [ K2 : IN ATTENDANCE AT INCIDENT]  
17:10:50 Unit STHLND2710 [ K1 : PROCEEDING TO INCIDENT]  
17:12:01 Unit STHLND2771 [ K1 : PROCEEDING TO INCIDENT]  
17:14:32 Unit WAIH5771 [ K2 : IN ATTENDANCE AT INCIDENT]  
17:30:17 FROM COMMAND POINT,  
17:34:18 WAIH5771 CREW IN ATTENDANCE BUT NO VEHICLE  
19:11:12 Unit TEMU8629 [ KC : UNIT CALLING]  
19:11:56 Unit TEMU8629 [ K0 : NOT AVAILABLE]  
19:42:53 Unit WAIK1825 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:35:33 Unit ARTH9625 [ KP : PRIORITY MESSAGE]  
22:57:40 Unit ARTH9625 [ KC : UNIT CALLING]  
22:58:25 Unit ARTH9625 [ SITREP : ] WE ARE RESPONDING TO TAI TAP ROAD TO CHECK IT OUT  
23:18:35 Unit ARTH9625 [ K2 : IN ATTENDANCE AT INCIDENT]  
23:22:48 Unit ARTH9625 [ K2 : IN ATTENDANCE AT INCIDENT]  
04:11:48 Unit TEMU8629 [ K1 : PROCEEDING TO INCIDENT]  
04:51:06 Unit TEMU8629 [ K1 : PROCEEDING TO INCIDENT]  
05:03:20 Unit METH6329 [ K1 : PROCEEDING TO INCIDENT]  
05:30:40 Unit PINE1925 [ K1 : PROCEEDING TO INCIDENT]  
05:32:00 Unit PINE1971 [ K2 : IN ATTENDANCE AT INCIDENT]  
05:32:03 Unit PINE1971 [ K1 : PROCEEDING TO INCIDENT]  
05:35:57 Unit TEMU8629 [ K1 : PROCEEDING TO INCIDENT]  
05:55:57 Unit STHLND2710 [ K2 : IN ATTENDANCE AT INCIDENT]  
05:56:22 Unit STHLND2771 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:07:06 Unit TEMU8629 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:13:09 Unit METH6329 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:13:15 Unit METH6329 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:13:26 Unit PINE1925 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:13:29 Unit PINE1971 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:14:29 Unit METH6329 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:37:45 Unit WOOL241 [ K38 : ASSOCIATE THIS UNIT TO EVENT - EVENT ADDRESS]

07:37:55 Unit WOOL241 [ K39 : RE-TRANSMIT YOUR CURRENT STATUS]  
07:38:02 Unit WOOL241 [ K1 : PROCEEDING TO INCIDENT]  
07:59:17 Unit SWAN1725 [ K2 : IN ATTENDANCE AT INCIDENT]  
11:21:25 Unit RANG5111 [ K2 : IN ATTENDANCE AT INCIDENT]  
15:00:44 Unit RANG5111 [ K2 : IN ATTENDANCE AT INCIDENT]  
15:00:50 Unit RANG5111 [ K2 : IN ATTENDANCE AT INCIDENT]  
15:00:58 Unit RANG5111 [ K2 : IN ATTENDANCE AT INCIDENT]  
15:42:22 Unit RANG5111 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:54:16 Unit PINE1971 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
19:20:12 Unit PINE1925 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
19:28:44 Unit METH6329 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
23:01:03 Unit ARTH9625 [ KP : PRIORITY MESSAGE]  
23:02:49 Unit ARTH9625 [ SITREP : ] HAVING TROUBLE FINDING ADDRESS OF [REDACTED] EARLY VALLEY  
23:02:49 ROAD. ANY FUTHER INFO? (NEGATIVE WILL TRY CONTACT CALLER)  
23:16:04 Unit ARTH9625 [ KC : UNIT CALLING]  
23:19:02 Unit ARTH9625 [ SITREP : ] SMELL OF SMOKE AT [REDACTED] EARLY VALLEY RD. HAVE RAN  
23:19:02 THERMAL IMAGERY OVER IT. THERE WERE HOTSPOTS BUT WELL IN THE BLACK. WILL  
23:19:02 REASSURE RESIDENTS  
00:01:44 Unit ARTH9625 [ KC : UNIT CALLING]  
00:02:54 Unit ARTH9625 [ SITREP : ] [REDACTED] EARLY VALLEY ROAD ... FOUND A HOT SPOT AND CAPPED  
00:02:54 FOR NIGHT, HAVE EXPLAINED TO THE RESIDENTS AND A CREW WILL GO BACK  
TOMORROW  
05:02:47 Unit METH6329 [ K1 : PROCEEDING TO INCIDENT]  
05:19:24 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
05:50:56 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:16:49 Unit METH6329 [ K2 : IN ATTENDANCE AT INCIDENT]  
07:32:52 \*\* Cross Referenced to Event # F2252461 at: 23/02/17 07:32:52  
07:32:52 \*\*  
12:51:06 Unit MOTU3611 [ K7 : AT NORMAL STATION]  
14:25:37 Unit SPRI7411 [ K7 : AT NORMAL STATION]  
15:26:49 Unit WEST9571 [ KP : PRIORITY MESSAGE]  
16:06:15 Unit MTSO9611 [ K1 : PROCEEDING TO INCIDENT]  
17:45:35 Unit METH6329 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
17:51:56 \*\*\*  
17:52:22 IC OVERNIGHT [REDACTED]  
17:52:29 \*\*\*  
18:11:09 Unit MTSO9611 [ K2 : IN ATTENDANCE AT INCIDENT]  
19:19:47 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:58:44 Unit TEMU8629 [ KC : UNIT CALLING]  
19:59:15 Unit TEMU8629 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:59:18 Unit TEMU8629 [ SITREP : ] WE HAVE BEEN RELEASED FROM THE PORT HILLS FIRE AND  
19:59:18 ARE ON OUR WAY HOME - WE WILL GO K4 AND THEN K7  
23:12:49 \*\*  
23:12:53 O/NIGHT 23-24/2 CONTACT FOR ICF [REDACTED]  
23:15:21 \*\*  
05:21:25 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]

05:36:04 Unit WAIK1825 [ K1 : PROCEEDING TO INCIDENT]  
05:52:48 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
06:27:52 Unit WAIK1825 [ K2 : IN ATTENDANCE AT INCIDENT]  
12:29:30 Unit WEST9525 [ KC : UNIT CALLING]  
12:30:19 Unit WEST9525 [ K2 : IN ATTENDANCE AT INCIDENT]  
12:30:33 Unit WEST9525 [ SITREP : ] CAN YOU ATTACH US TO HALSWELL STAGING AREA (YOU ARE  
12:30:33 ALREADY ATTACHED)  
14:18:19 \*  
14:18:50 CHAR9271 TRAVELLING FROM CHARLESTON TO CHCH TO ATTEND PORT HILLS FIRE -  
14:18:50 DEPARTING CHARLESTON 1500 HRS, 24 FEB  
14:18:52 \*  
15:03:49 Unit CHAR9271 [ K3 : ON RT OUTSIDE NORMAL TURNOUT AREA]  
15:22:24 Unit CHAR9271 [ K1 : PROCEEDING TO INCIDENT]  
15:49:07 Unit RTSREGION4 [ K1 : PROCEEDING TO INCIDENT]  
16:48:26 Unit RTSREGION4 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:57:30 Unit WEST9571 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
17:37:34 Unit RTSREGION4 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
18:05:46 Unit ALFO8611 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:06:04 Unit ALFO8611 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:02:45 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
19:38:24 Unit WAIK1825 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:01:49 Unit PEEL5211 [ K7 : AT NORMAL STATION]  
20:23:04 Unit CHAR9271 [ K1 : PROCEEDING TO INCIDENT]  
20:23:09 Unit CHAR9271 [ K2 : IN ATTENDANCE AT INCIDENT]  
21:10:52 NIGHTS CREW ARE WORKING ON BIG BURN BY THE ADVENTURE PARK AREA AND  
21:10:52 OF SMOKE IF WE GET ANY CALLS  
05:59:30 Unit SEFT3976 [ K7 : AT NORMAL STATION]  
06:05:44 Unit SEFT3976 [ K1 : PROCEEDING TO INCIDENT]  
07:12:34 Unit SEFT3976 [ K2 : IN ATTENDANCE AT INCIDENT]  
12:45:45 Unit WEST9525 [ K2 : IN ATTENDANCE AT INCIDENT]  
14:06:23 XX  
16:30:56 Unit SCRF9378 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:31:06 Unit LAUR8871 [ K7 : AT NORMAL STATION]  
17:27:17 Unit SEFT3976 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
05:19:37 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
05:47:39 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
14:32:27 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
18:35:00 Unit WAIH5771 [ K7 : AT NORMAL STATION]  
10:44:12 Unit SELW9480 [ KC : UNIT CALLING]  
19:39:48 Unit SWAN1725 [ K7 : AT NORMAL STATION]  
18:17:13 NIGHT CREWS FOR 28/02 [REDACTED] OR [REDACTED]  
19:34:05 Unit STHLND2710 [ KC : UNIT CALLING]  
20:15:07 Unit AORA5475 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:15:14 Unit AORA5475 [ KC : UNIT CALLING]  
20:16:09 Unit AORA5475 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]

20:30:13 Unit RANG5111 [ K2 : IN ATTENDANCE AT INCIDENT]  
20:30:35 Unit RANG5111 [ K7 : AT NORMAL STATION]  
20:57:16 Unit SCRF9378 [ K7 : AT NORMAL STATION]  
06:23:35 ██████████-1  
08:50:27 ██████████ CALLED TO SAY THERE IS A FIRE IN THE BELFAST/AIRPORT AREA/JOHNS ROAD  
AND IF  
08:50:27 NEEDED THEY HAVE HELICOPTER RESOUGRES  
08:50:44 ██████████ HAS JUST HAD A LOOK AND COULD POSSIBLY BE FROM A BOILER/CHIMNEY  
10:57:51 ██████████ CALLED TO ADVISE DYERS PASS ROAD UP TO THE SIGN OFF THE KIWI TREE  
FELLING  
10:57:51 IN PROGRESS TO MAKE THE ROAD SAFE  
13:36:52 Unit STHLND2771 [ K2 : IN ATTENDANCE AT INCIDENT]  
15:00:01 Unit STHLND2710 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
16:28:00 Unit STHLND2771 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:28:09 Unit STHLND2771 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:28:17 Unit STHLND2771 [ K2 : IN ATTENDANCE AT INCIDENT]  
16:44:39 Unit STHLND2771 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
17:03:27 Unit MTSO9611 [ KC : UNIT CALLING]  
17:03:48 Unit MTSO9611 [ KC : UNIT CALLING]  
17:03:56 Unit MTSO9611 [ KC : UNIT CALLING]  
17:04:29 Unit MTSO9611 [ K7 : AT NORMAL STATION]  
20:54:47 Unit WAIH5771 [ K2 : IN ATTENDANCE AT INCIDENT]  
21:17:46 Unit UPPE9473 [ K2 : IN ATTENDANCE AT INCIDENT]  
10:23:01 X  
10:23:38 08:00 2/3/17 ██████████ IS ROAMI  
16:24:40 Unit WEST9525 [ K7 : AT NORMAL STATION]  
17:20:23 XXXXX  
17:21:03 FIRECOM HAS GIVEN LIST OF UNITS ATTACHED TO CALL FOR CONFIRMATION THAT  
THEY ARE  
17:21:03 STILL THERE.  
17:21:06 XXX  
17:32:24 Unit BOTT1760 [ K7 : AT NORMAL STATION]  
17:32:34 Unit VICT1811 [ K7 : AT NORMAL STATION]  
21:23:02 Unit UPPE8771 [ K1 : PROCEEDING TO INCIDENT]  
21:33:11 WANTED TO KNOW IF WE SHOULD TURN OUT GOVERNORS BAY  
21:33:50 WANTED SOMEONE TO GO TO THE RUGBY GROUNDS TO GET A REFERENCE POINT  
21:35:16 Unit UPPE9473 [ SITREP : ] WE WILL STNAD DOWN BUT WILL BE LISTENING  
21:43:50 Unit UPPE8771 [ KC : UNIT CALLING]  
21:45:08 Unit UPPE8771 [ SITREP : ] WE HAVE DRIVEN THE LENGTH OF SUMMITT RD WITH NO SIGN  
21:45:08 OF FIRE  
21:46:04 Unit UPPE8771 [ K7 : AT NORMAL STATION]  
05:16:01 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
05:49:55 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
18:21:33 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
20:11:56 XXXXXXXXXXXX  
20:12:12 2011 HOURS SATURDAY 4TH MARCH  
20:12:43 DPRFC ██████████ ADVISES THAT THE HALSWALL QUARRY ICP IS CLOSED FOR THE DAY

20:12:57 NO STAFF ARE ON THE HILL OR ROAMING TONIGHT  
20:13:28 HE IS THE POINT OF CONTACT UNTIL DARK - [REDACTED]  
20:13:56 ANY CALLS TO SMOKE CALL HIM FIRST - DO NOT PAGE DUTY OFFICER  
20:14:57 ANY CALLS TO FLAME - RESPOND NZFS CREWS AND PAGE DUTY OFFICER  
20:15:02 XXXX  
20:15:49 ON SUNDAY 5TH MARCH THE ICU [REDACTED] WILL OPEN FOR THE LAST DAY OF  
OPERATION  
20:15:49 BEFORE RELOCATING TO PRINCESS MARGARET HOSPITAL IN SOME FORMAT  
20:16:12 SELWYN EOC IS STILL A DAYTIME OPERATION ONLY  
20:16:20 XXXXX  
20:17:14 \*\* Cross Referenced to Event # F2259284 at: 04/03/17 20:17:14  
20:17:14 \*\*  
08:49:48 Unit UPPE9473 [ K6 : ON TELEPAGER]  
10:26:16 Unit BURN9160 [ K7 : AT NORMAL STATION]  
14:59:16 Unit CHAR9271 [ K2 : IN ATTENDANCE AT INCIDENT]  
14:59:27 Unit CHAR9271 [ K2 : IN ATTENDANCE AT INCIDENT]  
15:00:30 Unit CHAR9271 [ K7 : AT NORMAL STATION]  
06:31:57 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
07:04:30 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
17:10:18 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
07:00:21 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
07:00:36 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
13:27:09 Unit WAIH5771 [ K7 : AT NORMAL STATION]  
14:07:34 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
06:26:26 Unit BOTT1711 [ K1 : PROCEEDING TO INCIDENT]  
06:50:48 Unit BOTT1711 [ K2 : IN ATTENDANCE AT INCIDENT]  
17:47:05 Unit BOTT1711 [ K4 : ON RT INSIDE NORMAL TURNOUT AREA]  
09:34:34 ..  
09:35:17 ..  
09:56:47 \*\*  
09:57:35 RFO [REDACTED] IS IN CONTROL [REDACTED] IS TO BE PAGED FOR ANY CALLS AS WELL AS  
PDA  
09:57:35 RESPONSE.  
09:57:39 \*\*  
10:00:14 SELW9480, ARTH9625 & SELW9475 ARE STILL ON FIRE GROUND WEF 9/3/17  
16:50:45 Unit SELW9480 [ K7 : AT NORMAL STATION]  
17:18:11 FOR THE WEEKEND NORMAL TURNOUT FOR ANY FIRE OR SMOKE SEEN RELATING TO  
THE PORT  
17:18:11 HILLS FIRE AND TO PAGE AL HUTT TO CONTACT FIRE COM  
17:18:31 EVERYTHING IS OFF THE FIRE GROUND AS OF NOW  
17:19:15 Unit SELW9475 [ K7 : AT NORMAL STATION]  
17:19:27 Unit ARTH9625 [ K7 : AT NORMAL STATION]  
17:23:15 UNIT ALFO8611 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:15 20170224180545ND AT 10/03/17 17:23:03  
17:23:16 UNIT ALFO8611 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:16 20170220060457ND AT 10/03/17 17:23:04  
17:23:16 UNIT ALFO8611 RESPONSE TIME [NULL] ADJUSTED TO

17:23:16 20170220061802ND AT 10/03/17 17:23:04  
17:23:16 UNIT BOTT1760 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:16 20170217101033ND AT 10/03/17 17:23:04  
17:23:17 UNIT BURN9111 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:17 20170213203517ND AT 10/03/17 17:23:04  
17:23:17 UNIT BURN9160 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:17 20170217074041ND AT 10/03/17 17:23:04  
17:23:17 UNIT BURN9160 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:17 20170217074027ND AT 10/03/17 17:23:05  
17:23:17 UNIT BURN9160 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:17 20170217074026ND AT 10/03/17 17:23:05  
17:23:18 UNIT BURN9160 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:18 20170217074108ND AT 10/03/17 17:23:05  
17:23:18 UNIT CLAN5311 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:18 20170217132552ND AT 10/03/17 17:23:05  
17:23:18 UNIT HIND9311 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:18 20170217104138ND AT 10/03/17 17:23:05  
17:23:19 UNIT LINCCFO RESPONSE TIME [NULL] ADJUSTED TO  
17:23:19 20170215195640ND AT 10/03/17 17:23:05  
17:23:19 UNIT PEEL5211 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:19 20170217075859ND AT 10/03/17 17:23:06  
17:23:19 UNIT PINE1971 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:19 20170222053158ND AT 10/03/17 17:23:06  
17:23:20 UNIT REGION4B RESPONSE TIME [NULL] ADJUSTED TO  
17:23:20 20170213193553ND AT 10/03/17 17:23:06  
17:23:20 UNIT SCAR9225 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:20 20170216151926ND AT 10/03/17 17:23:06  
17:23:21 UNIT SCRF9378 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:21 20170225163055ND AT 10/03/17 17:23:06  
17:23:21 UNIT SELW9475 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:21 20170213200919ND AT 10/03/17 17:23:06  
17:23:21 UNIT SELW9476 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:21 20170213200920ND AT 10/03/17 17:23:07  
17:23:22 UNIT SHEF711 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:22 20170215185209ND AT 10/03/17 17:23:07  
17:23:22 UNIT SPRI7411 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:22 20170217104139ND AT 10/03/17 17:23:07  
17:23:22 UNIT UPPE9473 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:22 20170301211745ND AT 10/03/17 17:23:07  
17:23:23 UNIT VICT1811 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:23 20170216015650ND AT 10/03/17 17:23:07  
17:23:23 UNIT WAIH5771 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:23 20170221171431ND AT 10/03/17 17:23:08  
17:23:23 UNIT WAIH5771 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:23 20170301205446ND AT 10/03/17 17:23:08  
17:23:24 UNIT WEST9511 RESPONSE TIME [NULL] ADJUSTED TO

17:23:24 20170214072142ND AT 10/03/17 17:23:08  
17:23:24 UNIT WEST9511 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:24 20170216202138ND AT 10/03/17 17:23:08  
17:23:24 UNIT WEST9511 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:24 20170217010712ND AT 10/03/17 17:23:08  
17:23:25 UNIT WEST9511 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:25 20170216202336ND AT 10/03/17 17:23:08  
17:23:25 UNIT WEST9511 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:25 20170216202344ND AT 10/03/17 17:23:09  
17:23:25 UNIT WEST9511 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:25 20170216004019ND AT 10/03/17 17:23:09  
17:23:25 UNIT WEST9525 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:25 20170214020442ND AT 10/03/17 17:23:09  
17:23:26 UNIT WEST9525 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:26 20170225124544ND AT 10/03/17 17:23:09  
17:23:26 UNIT WEST9525 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:26 20170224123018ND AT 10/03/17 17:23:09  
17:23:26 UNIT WEST9571 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:26 20170215185209ND AT 10/03/17 17:23:10  
17:23:27 UNIT WEST9571 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:27 20170214001244ND AT 10/03/17 17:23:10  
17:23:27 UNIT WEST9571 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:27 20170221090218ND AT 10/03/17 17:23:10  
17:23:27 UNIT WEST9571 RESPONSE TIME [NULL] ADJUSTED TO  
17:23:27 20170217092010ND AT 10/03/17 17:23:10  
17:25:36 UNIT AMBE4825 ALERT TIME [NULL] ADJUSTED TO  
17:25:36 20170219052839ND AT 10/03/17 17:25:13  
17:25:36 UNIT AORA5475 ALERT TIME [NULL] ADJUSTED TO  
17:25:36 20170220052216ND AT 10/03/17 17:25:13  
17:25:36 UNIT AORA5475 ALERT TIME [NULL] ADJUSTED TO  
17:25:36 20170220052206ND AT 10/03/17 17:25:13  
17:25:37 UNIT AORA5475 ALERT TIME [NULL] ADJUSTED TO  
17:25:37 20170220041507ND AT 10/03/17 17:25:13  
17:25:37 UNIT ARTH9625 ALERT TIME [NULL] ADJUSTED TO  
17:25:37 20170219055312ND AT 10/03/17 17:25:14  
17:25:37 UNIT ARTH9625 ALERT TIME [NULL] ADJUSTED TO  
17:25:37 20170218052448ND AT 10/03/17 17:25:14  
17:25:38 UNIT BOTT1711 ALERT TIME [NULL] ADJUSTED TO  
17:25:38 20170217052711ND AT 10/03/17 17:25:14  
17:25:38 UNIT BOTT1711 ALERT TIME [NULL] ADJUSTED TO  
17:25:38 20170213192157ND AT 10/03/17 17:25:14  
17:25:38 UNIT BOTT1760 ALERT TIME [NULL] ADJUSTED TO  
17:25:38 20170217101032ND AT 10/03/17 17:25:14  
17:25:39 UNIT BURN9111 ALERT TIME [NULL] ADJUSTED TO  
17:25:39 20170213203516ND AT 10/03/17 17:25:14  
17:25:39 UNIT BURN9160 ALERT TIME [NULL] ADJUSTED TO

17:25:39 20170217074025ND AT 10/03/17 17:25:15  
17:25:39 UNIT BURN9160 ALERT TIME [NULL] ADJUSTED TO  
17:25:39 20170217074026ND AT 10/03/17 17:25:15  
17:25:40 UNIT BURN9160 ALERT TIME [NULL] ADJUSTED TO  
17:25:40 20170217074040ND AT 10/03/17 17:25:15  
17:25:40 UNIT BURN9160 ALERT TIME [NULL] ADJUSTED TO  
17:25:40 20170217074107ND AT 10/03/17 17:25:15  
17:25:40 UNIT CANTERBRY1 ALERT TIME [NULL] ADJUSTED TO  
17:25:40 20170213175633ND AT 10/03/17 17:25:15  
17:25:40 UNIT CANTERBRY1 ALERT TIME [NULL] ADJUSTED TO  
17:25:40 20170214035221ND AT 10/03/17 17:25:15  
17:25:41 UNIT CHAR9271 ALERT TIME [NULL] ADJUSTED TO  
17:25:41 20170224202303ND AT 10/03/17 17:25:16  
17:25:41 UNIT CHAR9271 ALERT TIME [NULL] ADJUSTED TO  
17:25:41 20170224152222ND AT 10/03/17 17:25:16  
17:25:42 UNIT CHRISTCH1 ALERT TIME [NULL] ADJUSTED TO  
17:25:42 20170213182843ND AT 10/03/17 17:25:16  
17:25:42 UNIT CLAN5311 ALERT TIME [NULL] ADJUSTED TO  
17:25:42 20170217132551ND AT 10/03/17 17:25:16  
17:25:42 UNIT HIND9311 ALERT TIME [NULL] ADJUSTED TO  
17:25:42 20170219050421ND AT 10/03/17 17:25:16  
17:25:43 UNIT HIND9311 ALERT TIME [NULL] ADJUSTED TO  
17:25:43 20170218052448ND AT 10/03/17 17:25:17  
17:25:43 UNIT HIND9311 ALERT TIME [NULL] ADJUSTED TO  
17:25:43 20170217104137ND AT 10/03/17 17:25:17  
17:25:43 UNIT HURU0977 ALERT TIME [NULL] ADJUSTED TO  
17:25:43 20170219045937ND AT 10/03/17 17:25:17  
17:25:44 UNIT HURU0977 ALERT TIME [NULL] ADJUSTED TO  
17:25:44 20170216075134ND AT 10/03/17 17:25:17  
17:25:44 UNIT HURU0977 ALERT TIME [NULL] ADJUSTED TO  
17:25:44 20170216074801ND AT 10/03/17 17:25:17  
17:25:44 UNIT LAUR8871 ALERT TIME [NULL] ADJUSTED TO  
17:25:44 20170218052448ND AT 10/03/17 17:25:17  
17:25:44 UNIT LAUR8871 ALERT TIME [NULL] ADJUSTED TO  
17:25:44 20170219050847ND AT 10/03/17 17:25:18  
17:25:45 UNIT LAUR8871 ALERT TIME [NULL] ADJUSTED TO  
17:25:45 20170220051017ND AT 10/03/17 17:25:18  
17:25:45 UNIT LINC4126 ALERT TIME [NULL] ADJUSTED TO  
17:25:45 20170213195800ND AT 10/03/17 17:25:18  
17:25:45 UNIT LINC4126 ALERT TIME [NULL] ADJUSTED TO  
17:25:45 20170214075513ND AT 10/03/17 17:25:18  
17:25:46 UNIT LINCCFO ALERT TIME [NULL] ADJUSTED TO  
17:25:46 20170215195639ND AT 10/03/17 17:25:18  
17:25:46 UNIT METH6329 ALERT TIME [NULL] ADJUSTED TO  
17:25:46 20170222050319ND AT 10/03/17 17:25:19  
17:25:46 UNIT METH6329 ALERT TIME [NULL] ADJUSTED TO

17:25:46 20170223050245ND AT 10/03/17 17:25:19  
17:25:47 UNIT METH6329 ALERT TIME [NULL] ADJUSTED TO  
17:25:47 20170220052329ND AT 10/03/17 17:25:19  
17:25:47 UNIT MTSO9611 ALERT TIME [NULL] ADJUSTED TO  
17:25:47 20170223160613ND AT 10/03/17 17:25:19  
17:25:47 UNIT PEEL5211 ALERT TIME [NULL] ADJUSTED TO  
17:25:47 20170217075858ND AT 10/03/17 17:25:19  
17:25:48 UNIT PEEL5211 ALERT TIME [NULL] ADJUSTED TO  
17:25:48 20170219044949ND AT 10/03/17 17:25:20  
17:25:48 UNIT PEEL5211 ALERT TIME [NULL] ADJUSTED TO  
17:25:48 20170219053919ND AT 10/03/17 17:25:20  
17:25:48 UNIT PEND8911 ALERT TIME [NULL] ADJUSTED TO  
17:25:48 20170218052449ND AT 10/03/17 17:25:20  
17:25:48 UNIT PEND8911 ALERT TIME [NULL] ADJUSTED TO  
17:25:48 20170219050616ND AT 10/03/17 17:25:20  
17:25:49 UNIT PINE1925 ALERT TIME [NULL] ADJUSTED TO  
17:25:49 20170222053039ND AT 10/03/17 17:25:20  
17:25:49 UNIT PINE1971 ALERT TIME [NULL] ADJUSTED TO  
17:25:49 20170222053157ND AT 10/03/17 17:25:20  
17:25:49 UNIT PINE1971 ALERT TIME [NULL] ADJUSTED TO  
17:25:49 20170222053202ND AT 10/03/17 17:25:21  
17:25:50 UNIT REGION4B ALERT TIME [NULL] ADJUSTED TO  
17:25:50 20170214174818ND AT 10/03/17 17:25:21  
17:25:50 UNIT REGION4B ALERT TIME [NULL] ADJUSTED TO  
17:25:50 20170213193552ND AT 10/03/17 17:25:21  
17:25:51 UNIT REGION4B ALERT TIME [NULL] ADJUSTED TO  
17:25:51 20170214034210ND AT 10/03/17 17:25:22  
17:25:51 UNIT RFOSELW1 ALERT TIME [NULL] ADJUSTED TO  
17:25:51 20170214035359ND AT 10/03/17 17:25:22  
17:25:51 UNIT RFOSELW1 ALERT TIME [NULL] ADJUSTED TO  
17:25:51 20170213181348ND AT 10/03/17 17:25:22  
17:25:52 UNIT RFOSELW1 ALERT TIME [NULL] ADJUSTED TO  
17:25:52 20170213181339ND AT 10/03/17 17:25:22  
17:25:52 UNIT RFOSELW1 ALERT TIME [NULL] ADJUSTED TO  
17:25:52 20170214035440ND AT 10/03/17 17:25:22  
17:25:52 UNIT RFOSELW1 ALERT TIME [NULL] ADJUSTED TO  
17:25:52 20170214035351ND AT 10/03/17 17:25:23  
17:25:53 UNIT RFOSELW1 ALERT TIME [NULL] ADJUSTED TO  
17:25:53 20170214035349ND AT 10/03/17 17:25:23  
17:25:53 UNIT RFOSELW2 ALERT TIME [NULL] ADJUSTED TO  
17:25:53 20170213184015ND AT 10/03/17 17:25:23  
17:25:54 UNIT RFOSELW3 ALERT TIME [NULL] ADJUSTED TO  
17:25:54 20170213200328ND AT 10/03/17 17:25:23  
17:25:54 UNIT RFOSELW3 ALERT TIME [NULL] ADJUSTED TO  
17:25:54 20170214074731ND AT 10/03/17 17:25:23  
17:25:54 UNIT RFOSELW4 ALERT TIME [NULL] ADJUSTED TO

17:25:54 20170214053708ND AT 10/03/17 17:25:24  
17:25:55 UNIT RFOSELW4 ALERT TIME [NULL] ADJUSTED TO  
17:25:55 20170213193554ND AT 10/03/17 17:25:24  
17:25:55 UNIT ROLL4226 ALERT TIME [NULL] ADJUSTED TO  
17:25:55 20170214101401ND AT 10/03/17 17:25:24  
17:25:55 UNIT ROLL4226 ALERT TIME [NULL] ADJUSTED TO  
17:25:55 20170214062328ND AT 10/03/17 17:25:24  
17:25:55 UNIT ROLL4226 ALERT TIME [NULL] ADJUSTED TO  
17:25:55 20170215184908ND AT 10/03/17 17:25:24  
17:25:56 UNIT ROLLCFO ALERT TIME [NULL] ADJUSTED TO  
17:25:56 20170213193732ND AT 10/03/17 17:25:25  
17:25:56 UNIT RTSREGION4 ALERT TIME [NULL] ADJUSTED TO  
17:25:56 20170224154905ND AT 10/03/17 17:25:25  
17:25:56 UNIT RURALCHCH2 ALERT TIME [NULL] ADJUSTED TO  
17:25:56 20170213184554ND AT 10/03/17 17:25:25  
17:25:57 UNIT RURALSCRF8 ALERT TIME [NULL] ADJUSTED TO  
17:25:57 20170214072408ND AT 10/03/17 17:25:25  
17:25:57 UNIT RURALSCRF8 ALERT TIME [NULL] ADJUSTED TO  
17:25:57 20170214055611ND AT 10/03/17 17:25:25  
17:25:57 UNIT RURALSCRF8 ALERT TIME [NULL] ADJUSTED TO  
17:25:57 20170214053302ND AT 10/03/17 17:25:25  
17:25:58 UNIT SCAR9225 ALERT TIME [NULL] ADJUSTED TO  
17:25:58 20170217073113ND AT 10/03/17 17:25:26  
17:25:58 UNIT SCAR9225 ALERT TIME [NULL] ADJUSTED TO  
17:25:58 20170219045245ND AT 10/03/17 17:25:26  
17:25:58 UNIT SCAR9225 ALERT TIME [NULL] ADJUSTED TO  
17:25:58 20170216151925ND AT 10/03/17 17:25:26  
17:25:58 UNIT SCRF9378 ALERT TIME [NULL] ADJUSTED TO  
17:25:58 20170225163054ND AT 10/03/17 17:25:26  
17:25:59 UNIT SEFT3976 ALERT TIME [NULL] ADJUSTED TO  
17:25:59 20170225060543ND AT 10/03/17 17:25:26  
17:25:59 UNIT SELW9475 ALERT TIME [NULL] ADJUSTED TO  
17:25:59 20170213200918ND AT 10/03/17 17:25:26  
17:25:59 UNIT SELW9476 ALERT TIME [NULL] ADJUSTED TO  
17:25:59 20170213200919ND AT 10/03/17 17:25:27  
17:26:00 UNIT SELW9480 ALERT TIME [NULL] ADJUSTED TO  
17:26:00 20170213200715ND AT 10/03/17 17:25:27  
17:26:00 UNIT SELW9480 ALERT TIME [NULL] ADJUSTED TO  
17:26:00 20170213200707ND AT 10/03/17 17:25:27  
17:26:00 UNIT SELW9480 ALERT TIME [NULL] ADJUSTED TO  
17:26:00 20170213200658ND AT 10/03/17 17:25:27  
17:26:01 UNIT SHEF711 ALERT TIME [NULL] ADJUSTED TO  
17:26:01 20170215185208ND AT 10/03/17 17:25:27  
17:26:01 UNIT SOCK257 ALERT TIME [NULL] ADJUSTED TO  
17:26:01 20170213175308ND AT 10/03/17 17:25:28  
17:26:01 UNIT SPRI7411 ALERT TIME [NULL] ADJUSTED TO

17:26:01 20170217104138ND AT 10/03/17 17:25:28  
17:26:02 UNIT STHLND2710 ALERT TIME [NULL] ADJUSTED TO  
17:26:02 20170221171049ND AT 10/03/17 17:25:28  
17:26:02 UNIT STHLND2771 ALERT TIME [NULL] ADJUSTED TO  
17:26:02 20170221171159ND AT 10/03/17 17:25:28  
17:26:02 UNIT SWAN1725 ALERT TIME [NULL] ADJUSTED TO  
17:26:02 20170217060728ND AT 10/03/17 17:25:29  
17:26:03 UNIT TEMU8629 ALERT TIME [NULL] ADJUSTED TO  
17:26:03 20170222045105ND AT 10/03/17 17:25:29  
17:26:03 UNIT TEMU8629 ALERT TIME [NULL] ADJUSTED TO  
17:26:03 20170222041147ND AT 10/03/17 17:25:29  
17:26:03 UNIT TEMU8629 ALERT TIME [NULL] ADJUSTED TO  
17:26:03 20170222053555ND AT 10/03/17 17:25:29  
17:26:04 UNIT TEMU8629 ALERT TIME [NULL] ADJUSTED TO  
17:26:04 20170220041456ND AT 10/03/17 17:25:29  
17:26:04 UNIT TEMU8629 ALERT TIME [NULL] ADJUSTED TO  
17:26:04 20170220052852ND AT 10/03/17 17:25:29  
17:26:04 UNIT TIMA802 ALERT TIME [NULL] ADJUSTED TO  
17:26:04 20170216075643ND AT 10/03/17 17:25:30  
17:26:05 UNIT TIMA802 ALERT TIME [NULL] ADJUSTED TO  
17:26:05 20170216093401ND AT 10/03/17 17:25:30  
17:26:05 UNIT TIMA802 ALERT TIME [NULL] ADJUSTED TO  
17:26:05 20170216084120ND AT 10/03/17 17:25:30  
17:26:05 UNIT TIMA8029 ALERT TIME [NULL] ADJUSTED TO  
17:26:05 20170216075355ND AT 10/03/17 17:25:30  
17:26:06 UNIT UPPE8771 ALERT TIME [NULL] ADJUSTED TO  
17:26:06 20170303212301ND AT 10/03/17 17:25:30  
17:26:06 UNIT UPPE9473 ALERT TIME [NULL] ADJUSTED TO  
17:26:06 20170301211744ND AT 10/03/17 17:25:31  
17:26:06 UNIT WAIH5771 ALERT TIME [NULL] ADJUSTED TO  
17:26:06 20170301205445ND AT 10/03/17 17:25:31  
17:26:07 UNIT WAIH5771 ALERT TIME [NULL] ADJUSTED TO  
17:26:07 20170221171430ND AT 10/03/17 17:25:31  
17:26:07 UNIT WAIK1825 ALERT TIME [NULL] ADJUSTED TO  
17:26:07 20170224053603ND AT 10/03/17 17:25:31  
17:26:08 UNIT WAIK1825 ALERT TIME [NULL] ADJUSTED TO  
17:26:08 20170221053127ND AT 10/03/17 17:25:32  
17:26:08 UNIT WEST9511 ALERT TIME [NULL] ADJUSTED TO  
17:26:08 20170214072141ND AT 10/03/17 17:25:32  
17:26:08 UNIT WEST9511 ALERT TIME [NULL] ADJUSTED TO  
17:26:08 20170216202335ND AT 10/03/17 17:25:32  
17:26:09 UNIT WEST9511 ALERT TIME [NULL] ADJUSTED TO  
17:26:09 20170217010711ND AT 10/03/17 17:25:32  
17:26:09 UNIT WEST9511 ALERT TIME [NULL] ADJUSTED TO  
17:26:09 20170216202343ND AT 10/03/17 17:25:32  
17:26:09 UNIT WEST9511 ALERT TIME [NULL] ADJUSTED TO

17:26:09 20170216004018ND AT 10/03/17 17:25:33  
17:26:09 UNIT WEST9511 ALERT TIME [NULL] ADJUSTED TO  
17:26:09 20170216202137ND AT 10/03/17 17:25:33  
17:26:10 UNIT WEST9525 ALERT TIME [NULL] ADJUSTED TO  
17:26:10 20170214020441ND AT 10/03/17 17:25:33  
17:26:10 UNIT WEST9525 ALERT TIME [NULL] ADJUSTED TO  
17:26:10 20170225124543ND AT 10/03/17 17:25:33  
17:26:10 UNIT WEST9525 ALERT TIME [NULL] ADJUSTED TO  
17:26:10 20170224123017ND AT 10/03/17 17:25:33  
17:26:11 UNIT WEST9571 ALERT TIME [NULL] ADJUSTED TO  
17:26:11 20170214001243ND AT 10/03/17 17:25:33  
17:26:11 UNIT WEST9571 ALERT TIME [NULL] ADJUSTED TO  
17:26:11 20170217092009ND AT 10/03/17 17:25:34  
17:26:12 UNIT WEST9571 ALERT TIME [NULL] ADJUSTED TO  
17:26:12 20170221090217ND AT 10/03/17 17:25:34  
17:26:12 UNIT WEST9571 ALERT TIME [NULL] ADJUSTED TO  
17:26:12 20170215185208ND AT 10/03/17 17:25:34  
17:26:39 INCIDENT STOP TIME [NULL] ADJUSTED TO 20170310172534ND  
17:26:39 AT 10/03/17 17:26:37  
17:26:39 TERMINAL: D0730062  
17:26:39 \*\* Assigned Result Code: VEG, Detailed Event Type: 1100, Qualifier 1: Q1,  
17:26:39 Qualifier 2:

## Additional Calls Message Log

Time	Message
17:46:06	Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG
17:46:06	- VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =
17:46:06	[REDACTED], Caller Address = TELECOM CELLULAR 027, KARORI, WELLINGTON CITY,
17:46:06	Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111
17:46:07	INC INFO: SCRUB FIRE
17:46:07	End of Duplicate Event data
17:46:11	Duplicate Event:Location = KENNEDYS BUSH RD,KENNEDYS BUSH,CHRISTCHURCH CITY,
17:46:11	Type = VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source =
17:46:11	111Inc InfoSCRUB FIRE , Event Source = Fire 111
17:46:11	INC INFO: SCRUB FIRE
17:46:11	End of Duplicate Event data
17:46:44	Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG
17:46:44	- VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc
17:46:44	InfoSCRUB FIRE , Event Source = Fire 111
17:46:45	INC INFO: SCRUB FIRE
17:46:45	End of Duplicate Event data
17:46:49	Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG
17:46:49	- VEGETATION FIRE, Caller Name = BAYCITY NEW ZEALAND LIMITED (RESIDENTIAL),
17:46:49	Caller Ph Number = [REDACTED], Caller Address = [REDACTED] OLD TAI TAPU ROAD, KENNEDYS
17:46:49	BUSH, CHRISTCHURCH CITY, Call Source = 111Inc InfoFIRE GOING UP THE HILL, Event
17:46:49	Source = Fire 111
17:46:49	INC INFO: FIRE GOING UP THE HILL
17:46:49	End of Duplicate Event data
17:46:57	Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG
17:46:57	- VEGETATION FIRE, Caller Name = [REDACTED] R, Caller Ph Number =
17:46:57	[REDACTED], Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc
17:46:57	InfoSCRUB FIRE, Event Source = Fire 111
17:46:57	INC INFO: SCRUB FIRE
17:46:57	MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP
17:46:57	RECOMMENDED.
17:46:57	End of Duplicate Event data
17:46:58	Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG
17:46:58	- VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =
17:46:58	[REDACTED], Caller Address = [REDACTED] KENNEDYS BUSH ROAD, KENNEDYS BUSH,
17:46:58	CHRISTCHURCH
17:46:58	CITY, Call Source = 111Inc InfoFIRE ON THE HILL , Event Source = Fire 111
17:46:58	INC INFO: FIRE ON THE HILL
17:46:59	End of Duplicate Event data
17:47:20	Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG
17:47:20	- VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc InfoFIRE
17:47:20	RAGING UP THE HILL, Event Source = Fire 111
17:47:20	INC INFO: FIRE RAGING UP THE HILL

17:47:21 End of Duplicate Event data  
17:47:32 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:47:32 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:47:32 [REDACTED], Caller Address = [REDACTED], KENNEDYS BUSH, CHRISTCHURCH CITY,  
17:47:32 Call Source = 111Inc InfoSCRUB FIRE , Event Source = Fire 111  
17:47:32 INC INFO: SCRUB FIRE  
17:47:32 End of Duplicate Event data  
17:47:48 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:47:48 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]  
17:47:48 Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc InfoFIRE ON HILL ,  
17:47:48 Event Source = Fire 111  
17:47:48 INC INFO: FIRE ON HILL  
17:47:49 End of Duplicate Event data  
17:47:54 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type =  
17:47:54 VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:47:54 [REDACTED], Caller Address = [REDACTED] EARLY VALLEY ROAD,, Call Source = 111Inc  
17:47:54 InfoSCRUB FIRE, Event Source = Fire 111  
17:47:54 INC INFO: SCRUB FIRE  
17:47:54 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED] TESA LOOKUP  
RECOMMENDED.  
17:47:55 End of Duplicate Event data  
17:48:32 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:48:32 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:48:32 InfoSCRUB FIRE , Event Source = Fire 111  
17:48:32 INC INFO: SCRUB FIRE  
17:48:33 End of Duplicate Event data  
17:48:35 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:48:35 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoFIRE  
17:48:35 ON THE HILL , Event Source = Fire 111  
17:48:35 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:48:35 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:48:35 [REDACTED] Caller Address = TELECOM CELLULAR 027, SOUTH DUNEDIN, DUNEDIN CITY,  
17:48:35 Call Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
17:48:35 INC INFO: FIRE ON THE HILL  
17:48:35 INC INFO: VEGETATION FIRE  
17:48:35 End of Duplicate Event data  
17:48:49 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:48:49 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED],  
17:48:49 Caller Address = [REDACTED] KENNEDYS BUSH ROAD, KENNEDYS BUSH, CHRISTCHURCH CITY,  
Call  
17:48:49 Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
17:48:49 INC INFO: SCRUB FIRE  
17:48:49 End of Duplicate Event data  
17:48:54 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:48:54 - VEGETATION FIRE, Call Source = 111Inc InfoBUSH FIRE  
17:48:54 INC INFO: BUSH FIRE  
17:48:54 End of Duplicate Event data

17:48:59 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:48:59 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:48:59 InfoFIRE ON THE HILL , Event Source = Fire 111  
17:48:59 INC INFO: FIRE ON THE HILL  
17:49:00 End of Duplicate Event data  
17:49:31 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:49:31 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]  
17:49:31 [REDACTED], Caller Address = TELECOM CELLULAR 027, KARORI, WELLINGTON CITY,  
17:49:31 Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
17:49:32 INC INFO: SCRUB FIRE  
17:49:32 End of Duplicate Event data  
17:49:38 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:49:38 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSCRUB  
17:49:38 FIRE IN THE AREA, Event Source = Fire 111  
17:49:38 INC INFO: SCRUB FIRE IN THE AREA  
17:49:38 End of Duplicate Event data  
17:49:42 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:49:42 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED],  
17:49:42 Caller Address = [REDACTED] PARKLEA AVENUE, HALSWELL, CHRISTCHURCH CITY, Call Source =  
17:49:42 111Inc InfoFIRE ON HILL , Event Source = Fire 111  
17:49:43 INC INFO: FIRE ON HILL  
17:49:43 End of Duplicate Event data  
17:49:53 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:49:53 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSCRUB  
17:49:53 FIRE , Event Source = Fire 111  
17:49:53 INC INFO: SCRUB FIRE  
17:49:53 End of Duplicate Event data  
17:49:55 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:49:55 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]  
17:49:55 Caller Address = [REDACTED] POULSON STREET, ADDINGTON, CHRISTCHURCH CITY, Call Source =  
17:49:55 111, Event Source = Fire 111  
17:49:56 INC INFO:  
17:49:56 End of Duplicate Event data  
17:50:10 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:50:10 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]  
17:50:10 [REDACTED], Caller Address = [REDACTED] HALSWELL ROAD, HALSWELL, CHRISTCHURCH CITY,  
17:50:10 Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
17:50:11 INC INFO: SCRUB FIRE  
17:50:11 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP  
17:50:11 RECOMMENDED.  
17:50:11 INC INFO: SCRUB FIRE  
17:50:11 End of Duplicate Event data  
17:50:35 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type =  
17:50:35 VEG - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:50:35 InfoFIRE THREATENING HOUSE , Event Source = Fire 111  
17:50:36 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG

17:50:36 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]  
17:50:36 Caller Address = TELECOM CELLULAR 027, SOUTH DUNEDIN, DUNEDIN CITY, Call Source  
17:50:36 = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
17:50:37 INC INFO: SCRUB FIRE  
17:50:37 INC INFO: FIRE THREATENING HOUSE  
17:50:38 End of Duplicate Event data  
17:50:47 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:50:47 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:50:47 [REDACTED], Caller Address = [REDACTED] KENNEDYS BUSH ROAD, KENNEDYS BUSH,  
CHRISTCHURCH  
17:50:47 CITY, Call Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
17:50:49 INC INFO: VEGETATION FIRE  
17:50:49 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP  
RECOMMENDED.  
17:50:50 End of Duplicate Event data  
17:51:07 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:51:07 - VEGETATION FIRE, Caller Name = VETERINARY ENTERPRISES GROUP LIMITED, Caller Ph  
17:51:07 Number = [REDACTED], Caller Address = [REDACTED] HALSWELL ROAD, HALSWELL, CHRISTCHURCH  
17:51:07 CITY, Call Source = 111Inc InfoFIRE ON THE HILL , Event Source = Fire 111  
17:51:07 INC INFO: FIRE ON THE HILL  
17:51:07 End of Duplicate Event data  
17:51:28 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:51:28 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:51:28 [REDACTED], Caller Address = TELECOM CELLULAR 027, SOUTH DUNEDIN, DUNEDIN CITY,  
17:51:28 Call Source = 111Inc InfoSCRUB FIRE ENDANGERING PROPERTY, Event Source = Fire  
17:51:28 111  
17:51:28 INC INFO: SCRUB FIRE ENDANGERING PROPERTY  
17:51:28 End of Duplicate Event data  
17:51:33 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:51:33 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSCRUB  
17:51:33 FIRE , Event Source = Fire 111  
17:51:33 INC INFO: SCRUB FIRE  
17:51:33 End of Duplicate Event data  
17:51:34 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:51:34 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:51:34 [REDACTED], Caller Address = TELECOM CELLULAR 027, ONEROA, AUCKLAND CITY, Call  
17:51:34 Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
17:51:34 INC INFO: VEGETATION FIRE  
17:51:34 End of Duplicate Event data  
17:52:15 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:52:15 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:52:15 [REDACTED], Caller Address = [REDACTED] RHODES ROAD, TAITAPU, SELWYN DISTRICT, Call  
17:52:15 Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
17:52:16 INC INFO: SCRUB FIRE  
17:52:16 End of Duplicate Event data  
17:52:24 Duplicate Event:Location [REDACTED] HIGHCREST HTS CHRISTCHURCH CITYCross Street  
17:52:24 [REDACTED] CHALONER LA, Type = VEG VEGETATION FIRE, Subtype = default, Caller Name =

17:52:24 [REDACTED] R, Caller Ph Number = [REDACTED], Caller Address = [REDACTED] HIGHCREST  
17:52:24 HEIGHTS, WESTMORLAND, CHRISTCHURCH CITY, Call Source = 111Alarm Level1Inc  
17:52:24 InfoFIRE ON HILL , Event Source = Fire 111  
17:52:25 INC INFO: FIRE ON HILL  
17:52:25 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP  
RECOMMENDED.  
17:52:25 \*\* ELOI search completed at 13/02/17 17:52:14 - 1 result  
17:52:25 \*\* LOI search completed at 13/02/17 17:52:17  
17:52:26 End of Duplicate Event data  
17:52:30 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:52:30 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:52:30 InfoVEGETATION FIRE, Event Source = Fire 111  
17:52:30 INC INFO: VEGETATION FIRE  
17:52:31 \*\* Requirement PUMP added for alarm level 1  
17:52:31 End of Duplicate Event data  
17:52:38 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:52:38 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:52:38 [REDACTED], Caller Address = [REDACTED] EARLY VALLEY ROAD, LANSDOWNNE, CHRISTCHURCH  
17:52:38 CITY, Call Source = 111, Event Source = Fire 111  
17:52:38 INC INFO:  
17:52:38 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP  
RECOMMENDED.  
17:52:38 End of Duplicate Event data  
17:53:34 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:53:34 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:53:34 InfoSCRUB FIRE, Event Source = Fire 111  
17:53:35 INC INFO: SCRUB FIRE  
17:53:35 End of Duplicate Event data  
17:53:37 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type =  
17:53:37 STRU - STRUCTURE FIRE, Caller Name = MOFFATTS FLOWER COMPANY LIMITED, Caller Ph  
17:53:37 Number = [REDACTED], Caller Address = TELECOM CELLULAR 027, KAIPARA FLATS,  
17:53:37 AUCKLAND CITY, Call Source = 111Inc InfoSCRUB FIRE THREATING HOUSES , Event  
17:53:37 Source = Fire 111  
17:53:38 INC INFO: SCRUB FIRE THREATING HOUSES  
17:53:38 End of Duplicate Event data  
17:53:42 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type =  
17:53:42 VEG - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
17:53:42 [REDACTED] Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc  
17:53:42 InfoFIRE ON HILL , Event Source = Fire 111  
17:53:43 INC INFO: FIRE ON HILL  
17:53:43 End of Duplicate Event data  
17:53:51 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:53:51 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph  
Number  
17:53:51 = [REDACTED] Caller Address = [REDACTED] EARLY VALLEY ROAD, LANSDOWNNE, CHRISTCHURCH  
17:53:51 CITY, Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
17:53:51 INC INFO: SCRUB FIRE

17:53:51 End of Duplicate Event data  
17:53:52 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:53:52 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc InfoSCRUB  
17:53:52 FIRE, Event Source = Fire 111  
17:53:52 INC INFO: SCRUB FIRE  
17:53:52 End of Duplicate Event data  
17:54:25 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:54:25 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc InfoFIRE  
17:54:25 KENNEDYS BUSH - PINE FOREST , Event Source = Fire 111  
17:54:26 INC INFO: FIRE KENNEDYS BUSH - PINE FOREST  
17:54:26 End of Duplicate Event data  
17:54:34 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:54:34 - VEGETATION FIRE, Caller Name = DIAMOND FITNESS LIMITED, Caller Ph Number =  
17:54:34 [REDACTED], Caller Address = TELECOM CELLULAR 027, BLENHEIM, MARLBOROUGH  
17:54:34 DISTRICT, Call Source = 111Inc InfoFIRE ON HILL , Event Source = Fire 111  
17:54:34 INC INFO: FIRE ON HILL  
17:54:34 End of Duplicate Event data  
17:54:42 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:54:42 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
17:54:42 [REDACTED], Caller Address = [REDACTED] THE RIDGE, KENNEDYS BUSH, CHRISTCHURCH CITY, Call  
17:54:42 Source = 111Inc InfoBUSH FIRE, Event Source = Fire 111  
17:54:42 INC INFO: BUSH FIRE  
17:54:42 End of Duplicate Event data  
17:54:48 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:54:48 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number  
17:54:48 = [REDACTED], Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc  
17:54:48 InfoSCRUB FIRE, Event Source = Fire 111  
17:54:48 INC INFO: SCRUB FIRE  
17:54:48 End of Duplicate Event data  
17:55:15 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:55:15 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoFIRE  
17:55:15 ON THE HILL, Event Source = Fire 111  
17:55:15 INC INFO: FIRE ON THE HILL  
17:55:15 End of Duplicate Event data  
17:55:23 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:55:23 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]  
17:55:23 Caller Address = TELECOM CELLULAR 027, HUNTLY, WAIKATO DISTRICT, Call Source =  
17:55:23 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
17:55:23 TELLING FIRE SERVICE WHAT TO DO  
17:55:23 INC INFO: VEGETATION FIRE  
17:55:23 End of Duplicate Event data  
17:55:27 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:55:27 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc InfoBUSH  
17:55:27 FIRE, Event Source = Fire 111  
17:55:27 INC INFO: BUSH FIRE  
17:55:27 End of Duplicate Event data

17:55:42 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:55:42 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]  
17:55:42 Caller Address = [REDACTED] LNP FICT,, Call Source = 111Inc InfoSCRUB FIRE, Event Source  
17:55:42 = Fire 111  
17:55:42 INC INFO: SCRUB FIRE  
17:55:42 End of Duplicate Event data  
17:55:47 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:55:47 - VEGETATION FIRE, Caller Name = [REDACTED] R, Caller Ph Number =  
17:55:47 [REDACTED] Caller Address = TELECOM CELLULAR 027,, Call Source = 111, Event  
17:55:47 Source = Fire 111  
17:55:48 INC INFO:  
17:55:48 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED] TESA LOOKUP  
RECOMMENDED.  
17:55:48 End of Duplicate Event data  
17:55:53 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:55:53 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc  
17:55:53 InfoSCRUB FIRE , Event Source = Fire 111  
17:55:53 INC INFO: SCRUB FIRE  
17:55:54 End of Duplicate Event data  
17:56:18 Duplicate Event:Location = [REDACTED] : EST [REDACTED] EARLY  
17:56:18 VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG - VEGETATION FIRE, Caller Ph  
17:56:18 Number = [REDACTED] Call Source = 111Inc InfoVEGETATION FIRE, Event Source =  
17:56:18 Fire 111  
17:56:18 INC INFO: VEGETATION FIRE  
17:56:19 End of Duplicate Event data  
17:56:21 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:56:21 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:56:21 [REDACTED] Caller Address = [REDACTED] CASHMERE ROAD, HOON HAY, CHRISTCHURCH CITY,  
17:56:21 Call Source = 111Inc InfoFIRE ON HILL , Event Source = Fire 111  
17:56:21 INC INFO: FIRE ON HILL  
17:56:21 End of Duplicate Event data  
17:56:27 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:56:27 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc InfoBUSH  
17:56:27 FIRE THREATNING HOUSE , Event Source = Fire 111  
17:56:27 INC INFO: BUSH FIRE THREATNING HOUSE  
17:56:27 End of Duplicate Event data  
17:56:42 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:56:42 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111, Event  
17:56:42 Source = Fire 111  
17:56:43 INC INFO:  
17:56:43 End of Duplicate Event data  
17:56:45 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:56:45 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc InfoFIRE  
17:56:45 ON HILL , Event Source = Fire 111  
17:56:45 INC INFO: FIRE ON HILL  
17:56:45 End of Duplicate Event data

17:57:00 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:57:00 - VEGETATION FIRE, Caller Name = FARMLANDS CO-OPERATIVE SOCIETY LIMITED, Caller  
17:57:00 Ph Number = [REDACTED] Caller Address = TELECOM CELLULAR 027, BLENHEIM,  
17:57:00 MARLBOROUGH DISTRICT, Call Source = 111Inc InfoBUSH FIRE, Event Source = Fire  
17:57:00 111  
17:57:00 INC INFO: BUSH FIRE  
17:57:01 End of Duplicate Event data  
17:57:12 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:57:12 - VEGETATION FIRE, Caller Name [REDACTED] Caller Ph Number =  
17:57:12 [REDACTED], Caller Address = [REDACTED] WORSLEYS ROAD, CRACROFT, CHRISTCHURCH CITY,  
17:57:12 Call Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
17:57:13 INC INFO: VEGETATION FIRE  
17:57:13 End of Duplicate Event data  
17:57:17 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:57:17 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc  
17:57:17 InfoFIRE ON THE HILL , Event Source = Fire 111  
17:57:17 INC INFO: FIRE ON THE HILL  
17:57:17 End of Duplicate Event data  
17:57:49 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:57:49 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]  
17:57:49 Caller Address = [REDACTED] ERNEST ADAMS DRIVE, GOVERNORS BAY, CHRISTCHURCH CITY, Call  
17:57:49 Source = 111Inc InfoFIRE , Event Source = Fire 111  
17:57:49 INC INFO: FIRE  
17:57:49 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP  
RECOMMENDED.  
17:57:49 End of Duplicate Event data  
17:57:54 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:57:54 - VEGETATION FIRE, Caller Name = VODAFONE NEW ZEALAND LTD, Caller Ph Number =  
17:57:54 [REDACTED], Caller Address = [REDACTED] MAIN ROAD, ALLANDALE, CHRISTCHURCH CITY, Call  
17:57:54 Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
17:57:54 INC INFO: VEGETATION FIRE  
17:57:54 End of Duplicate Event data  
17:58:11 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:58:11 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111, Event  
17:58:11 Source = Fire 111  
17:58:11 INC INFO:  
17:58:12 End of Duplicate Event data  
17:58:12 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:58:12 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoFIRE  
17:58:12 ON THE HILL , Event Source = Fire 111  
17:58:12 INC INFO: FIRE ON THE HILL  
17:58:12 End of Duplicate Event data  
17:58:23 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:58:23 - VEGETATION FIRE, Caller Name = PREPAID/TELECOM, Caller Ph Number =  
17:58:23 [REDACTED], Caller Address = TELECOM CELLULAR 027, BLENHEIM, MARLBOROUGH  
17:58:23 DISTRICT, Call Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111

17:58:24 INC INFO: VEGETATION FIRE  
17:58:24 Unit CHRI2111 [COMCEN COM : MESSAGE] HYDANT LOCATION GIVEN (ACK)  
17:58:24 End of Duplicate Event data  
17:58:40 Duplicate Event: EARLY VALLEY RD SELWYN DISTRICT Cross Street [REDACTED] OLD TAI TAPU RD,  
17:58:40 Type = VEG VEGETATION FIRE, Subtype = default, Caller Ph Number = [REDACTED]  
17:58:40 Call Source = 111Alarm Level1Inc InfoSCRUB FIRE , Event Source = Fire 111  
17:58:40 INC INFO: SCRUB FIRE  
17:58:40 \*\* LOI search completed at 13/02/17 17:52:54  
17:58:40 \*\* ELOI search completed at 13/02/17 17:52:54 - 1 result  
17:58:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:58:40 INC INFO: VEGETATION FIRE  
17:58:40 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED] TESA LOOKUP  
RECOMMENDED.  
17:58:40 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:58:40 [REDACTED] Caller Address = [REDACTED] BARNES ROAD, HALSWELL, SELWYN DISTRICT, Call  
17:58:40 Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
17:58:40 End of Duplicate Event data  
17:58:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:58:40 - VEGETATION FIRE, Call Source = 111Inc InfoBUSH FIRE  
17:58:40 End of Duplicate Event data  
17:58:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:58:40 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
17:58:40 [REDACTED], Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc  
17:58:40 InfoVEGETATION FIRE, Event Source = Fire 111  
17:58:40 End of Duplicate Event data  
17:58:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:58:40 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
17:58:40 [REDACTED] Caller Address = [REDACTED] RAPAHI DRIVE,, Call Source = 111Inc InfoUP ON THE  
17:58:40 HILL, Event Source = Fire 111  
17:58:40 End of Duplicate Event data  
17:58:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:58:40 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:58:40 InfoPOND/WATER [REDACTED] HOLMES ROAD, Event Source = Fire 111  
17:58:40 INC INFO: POND/WATER [REDACTED] HOLMES ROAD  
17:58:40 End of Duplicate Event data  
17:58:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:58:40 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:58:40 InfoLARGE SCRUB FIRE, Event Source = Fire 111  
17:58:40 INC INFO: LARGE SCRUB FIRE  
17:58:40 End of Duplicate Event data  
17:58:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
17:58:40 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number = [REDACTED],  
17:58:40 Caller Address = TELECOM CELLULAR 027, TE ARO, WELLINGTON CITY, Call Source =  
17:58:40 111Inc InfoSRUB FIRE, Event Source = Fire 111  
17:58:40 INC INFO: SRUB FIRE  
17:58:40 End of Duplicate Event data

17:58:42 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:58:42 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
17:58:42 InfoSCRUB FIRE, Event Source = Fire 111  
17:58:42 INC INFO: SCRUB FIRE  
17:58:42 End of Duplicate Event data  
17:58:59 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:58:59 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc  
17:58:59 InfoVEGETATION FIRE, Event Source = Fire 111  
17:58:59 INC INFO: VEGETATION FIRE  
17:58:59 End of Duplicate Event data  
17:59:32 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:59:32 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSCRUB  
17:59:32 FIRE, Event Source = Fire 111  
17:59:33 INC INFO: SCRUB FIRE  
17:59:33 INC INFO: SCRUB FIRE  
17:59:33 End of Duplicate Event data  
17:59:51 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
17:59:51 - VEGETATION FIRE, Caller Name = VODAFONE NEW ZEALAND LTD, Caller Ph Number =  
17:59:51 [REDACTED] Caller Address = [REDACTED] TAI TAPU ROAD, TAI TAPU, SELWYN DISTRICT, Call  
17:59:51 Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
17:59:51 INC INFO: SCRUB FIRE  
17:59:51 INC INFO: SCRUB FIRE  
17:59:51 End of Duplicate Event data  
18:00:01 Duplicate Event: EARLY VALLEY RD SELWYN DISTRICTCross Street [REDACTED] OLD TAI TAPU RD,  
18:00:01 Type = VEG VEGETATION FIRE, Subtype = default, Caller Name = [REDACTED] Caller  
18:00:01 Ph Number = [REDACTED] Caller Address = EARLY VALLEY RD,LANSDOWNE,SELWYN  
18:00:01 DISTRICT, Call Source = 111Alarm Level1Inc InfoFIRE IN VICINITY , Event Source =  
18:00:01 Fire 111  
18:00:02 INC INFO: FIRE IN VICINITY  
18:00:02 \*\* ELOI search completed at 13/02/17 17:59:45 - 1 result  
18:00:02 \*\* LOI search completed at 13/02/17 17:59:45  
18:00:02 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:00:02 INC INFO: SCRUB FIRE  
18:00:02 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
18:00:02 InfoSCRUB FIRE, Event Source = Fire 111  
18:00:02 End of Duplicate Event data  
18:00:50 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:00:50 - VEGETATION FIRE, Caller Name = FULTON HOGAN LIMITED, Caller Ph Number =  
18:00:50 [REDACTED] Caller Address = TELECOM CELLULAR 027, BELFAST, CHRISTCHURCH CITY,  
18:00:50 Call Source = 111, Event Source = Fire 111  
18:00:50 HEADING TOWRDS 200 HECTARES OF FOREST  
18:00:50 INC INFO:  
18:00:51 End of Duplicate Event data  
18:01:40 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:01:40 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
18:01:40 [REDACTED], Caller Address = HOON HAY VALLEY ROAD, KENNEDYS BUSH,  
CHRISTCHURCH

18:01:40 CITY, Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:01:41 INC INFO: SCRUB FIRE  
18:01:41 End of Duplicate Event data  
18:03:04 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:03:04 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]  
18:03:04 Caller Address = [REDACTED] MAIN ROAD, ALLANDALE, CHRISTCHURCH CITY, Call Source =  
18:03:04 111Inc InfoFIRE ON HILL , Event Source = Fire 111  
18:03:05 INC INFO: FIRE ON HILL  
18:03:05 End of Duplicate Event data  
18:04:14 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:04:14 - VEGETATION FIRE, Call Source = 111Inc InfoSCRUB FIRE  
18:04:14 INC INFO: SCRUB FIRE  
18:04:15 End of Duplicate Event data  
18:04:27 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:04:27 - VEGETATION FIRE, Caller Ph Number = [REDACTED] , Call Source = 111Inc InfoSCRUB  
18:04:27 FIRE, Event Source = Fire 111  
18:04:27 INC INFO: SCRUB FIRE  
18:04:27 End of Duplicate Event data  
18:05:33 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:05:33 - VEGETATION FIRE, Caller Name = UNKNOWN OR DUPLICATE DETAILS, Caller Ph Number  
18:05:33 = [REDACTED] Caller Address = UNKNOWN TELSTRACLEAR, JOHNSONVILLE, WELLINGTON  
18:05:33 CITY, Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:05:33 INC INFO: SCRUB FIRE  
18:05:33 End of Duplicate Event data  
18:06:50 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:06:50 - VEGETATION FIRE, Caller Ph Number = [REDACTED] , Call Source = 111Inc  
18:06:50 InfoVEGETATION FIRE, Event Source = Fire 111  
18:06:50 INC INFO: VEGETATION FIRE  
18:06:50 End of Duplicate Event data  
18:07:25 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:07:25 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
18:07:25 [REDACTED] , Caller Address = [REDACTED] GLOVERS ROAD, HALSWELL, CHRISTCHURCH CITY, Call  
18:07:25 Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
18:07:25 INC INFO: VEGETATION FIRE  
18:07:25 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED] . TESA LOOKUP  
18:07:25 RECOMMENDED.  
18:07:25 End of Duplicate Event data  
18:07:53 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:07:53 - VEGETATION FIRE, Caller Ph Number = [REDACTED] , Call Source = 111Inc  
18:07:53 InfoSCRUB FIRE, Event Source = Fire 111  
18:07:53 INC INFO: SCRUB FIRE  
18:07:53 End of Duplicate Event data  
18:08:30 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:08:30 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc  
18:08:30 InfoSCRUB FIRE, Event Source = Fire 111  
18:08:30 INC INFO: SCRUB FIRE

18:08:30 End of Duplicate Event data  
18:09:15 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:09:15 - VEGETATION FIRE, Caller Name = VODAFONE NEW ZEALAND LTD, Caller Ph Number =  
18:09:15 [REDACTED], Caller Address [REDACTED] RAVENSDALE RISE, WESTMORLAND, CHRISTCHURCH  
CITY,  
18:09:15 Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:09:15 INC INFO: SCRUB FIRE  
18:09:15 End of Duplicate Event data  
18:09:46 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:09:46 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
18:09:46 [REDACTED] Caller Address = TELECOM CELLULAR 027, BLENHEIM, MARLBOROUGH  
18:09:46 DISTRICT, Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:09:46 INC INFO: SCRUB FIRE  
18:09:46 End of Duplicate Event data  
18:10:17 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:10:17 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc InfoSCRUB  
18:10:17 FIRE, Event Source = Fire 111  
18:10:17 INC INFO: SCRUB FIRE  
18:10:17 End of Duplicate Event data  
18:10:47 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:10:47 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number  
18:10:47 = [REDACTED] Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc  
18:10:47 InfoFIRE IN VICINITY, Event Source = Fire 111  
18:10:47 INC INFO: FIRE IN VICINITY  
18:10:47 End of Duplicate Event data  
18:10:52 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:10:52 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
18:10:52 [REDACTED] Caller Address = [REDACTED] CRESSY TERRACE, LYTTELTON, CHRISTCHURCH CITY,  
18:10:52 Call Source = 111Inc InfoFIRE, Event Source = Fire 111  
18:10:52 INC INFO: FIRE  
18:10:52 End of Duplicate Event data  
18:10:54 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:10:54 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
18:10:54 [REDACTED] Caller Address [REDACTED] ZEPHYR TERRACE, GOVERNORS BAY, CHRISTCHURCH  
18:10:54 CITY, Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:10:54 INC INFO: SCRUB FIRE  
18:10:54 End of Duplicate Event data  
18:11:32 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN  
18:11:32 - MINOR, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSMOKE IN THE  
18:11:32 AREA, Event Source = Fire 111  
18:11:32 INC INFO: SMOKE IN THE AREA  
18:11:32 End of Duplicate Event data  
18:13:47 Duplicate Event: NULL CHRISTCHURCH CITY @GEBBIES VALLEYCross Street 1WITHELLS  
18:13:47 RDCross Street [REDACTED] MILLERS RD, Type = VEG VEGETATION FIRE, Subtype = default,  
18:13:47 Caller Name = [REDACTED] Caller Ph Number = [REDACTED], Caller Address  
18:13:47 = [REDACTED] MILLERS ROAD, GEBBIES VALLEY,, Call Source = 111Alarm Level1Inc InfoSMOKE

18:13:47 IN AREA, Event Source = Fire 111  
18:13:48 INC INFO: SMOKE IN AREA  
18:13:48 \*\* ELOI search completed at 13/02/17 18:12:35 - 1 result  
18:13:48 \*\* LOI search completed at 13/02/17 18:12:41  
18:13:48 End of Duplicate Event data  
18:13:51 Duplicate Event: SUMMIT RD CHRISTCHURCH CITY Cross Street [REDACTED] WORSLEYS RDCross  
18:13:51 Street [REDACTED] GEBBIES PASS RD, Type = VEG VEGETATION FIRE, Subtype = default, Caller  
18:13:51 Name = [REDACTED], Caller Ph Number = [REDACTED] Caller Address = [REDACTED]  
18:13:51 CANTERBURY STREET, LYTTTELTON, CHRISTCHURCH CITY, Call Source = 111Alarm  
18:13:51 Level1Inc InfoSMOKE DRIFTING OVER GOVERNORS BAY HILL , Event Source = Fire 111  
18:13:52 THIS WILL BE THE KENNEDYS BUSH FIRE  
18:13:52 INC INFO: SMOKE DRIFTING OVER GOVERNORS BAY HILL  
18:13:52 \*\* ELOI search completed at 13/02/17 18:05:58 - 1 result  
18:13:52 \*\* LOI search completed at 13/02/17 18:05:58  
18:13:52 INC INFO: FIRE IN VICINITY  
18:13:52 Duplicate Event:Location = SUMMIT RD,GOVERNORS BAY,CHRISTCHURCH CITY, Type =  
18:13:52 VEG  
18:13:52 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number =  
18:13:52 [REDACTED] Caller Address = [REDACTED] BAY HEIGHTS, GOVERNORS BAY, CHRISTCHURCH CITY,  
18:13:52 Call Source = 111Inc InfoFIRE IN VICINITY, Event Source = Fire 111  
18:13:52 End of Duplicate Event data  
18:13:52 Duplicate Event:Location = SUMMIT RD,GOVERNORS BAY,CHRISTCHURCH CITY, Type =  
18:13:52 VEG  
18:13:52 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
18:13:52 [REDACTED], Caller Address = [REDACTED] WESTVIEW PLACE, HUNTSBURY, CHRISTCHURCH CITY,  
18:13:52 Call Source = 111Inc InfoSMOKE IN VICINITY, Event Source = Fire 111  
18:13:52 End of Duplicate Event data  
18:13:52 Duplicate Event:Location = SUMMIT RD,GOVERNORS BAY,CHRISTCHURCH CITY, Type =  
18:13:52 VEG  
18:13:52 INC INFO: SMOKE SHOWING FROM PORT HILLS  
18:13:52 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSMOKE  
18:13:52 SHOWING FROM PORT HILLS , Event Source = Fire 111  
18:13:52 End of Duplicate Event data  
18:13:55 Duplicate Event: EARLY VALLEY RD SELWYN DISTRICT Cross Street [REDACTED] OLD TAI TAPU RD,  
18:13:55 Type = VEG VEGETATION FIRE, Subtype = default, Caller Name = [REDACTED]  
18:13:55 [REDACTED], Caller Ph Number = [REDACTED], Caller Address = [REDACTED] SIDING LANE,, Call  
18:13:55 Source = 111Alarm Level1Inc InfoFIRE, Event Source = Fire 111  
18:13:56 INC INFO: FIRE  
18:13:56 \*\* ELOI search completed at 13/02/17 18:03:49 - 1 result  
18:13:56 \*\* LOI search completed at 13/02/17 18:03:50  
18:13:56 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:13:56 INC INFO: SCRUB FIRE  
18:13:56 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSCRUB  
18:13:56 FIRE, Event Source = Fire 111  
18:13:56 End of Duplicate Event data  
18:13:56 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:13:56 - VEGETATION FIRE, Caller Ph Number = [REDACTED] Call Source = 111Inc

18:13:56 InfoSCRUB FIRE, Event Source = Fire 111  
18:13:56 INC INFO: SCRUB FIRE  
18:13:56 End of Duplicate Event data  
18:13:56 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:13:56 - VEGETATION FIRE, Caller Name = INFATECH SOLUTIONS LIMITED, Caller Ph Number =  
18:13:56 [REDACTED] Caller Address = TELECOM CELLULAR 027, WELLINGTON CENTRAL,  
18:13:56 WELLINGTON CITY, Call Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:13:56 INC INFO: SCRUB FIRE  
18:13:56 End of Duplicate Event data  
18:13:56 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = MIN  
18:13:56 - MINOR, Caller Name = LIVING SPRINGS TRUST, Caller Ph Number = [REDACTED],  
18:13:56 Caller Address = [REDACTED] BAMFORDS ROAD,, Call Source = 111Inc InfoSMOKE IN AREA,  
18:13:56 Event Source = Fire 111  
18:13:56 INC INFO: SMOKE IN AREA  
18:13:56 End of Duplicate Event data  
18:14:10 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:14:10 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]  
18:14:10 Caller Address = [REDACTED] MAIN ROAD, GOVERNORS BAY, CHRISTCHURCH CITY, Call Source =  
18:14:10 111Inc InfoBIG FIRE, Event Source = Fire 111  
18:14:10 INC INFO: BIG FIRE  
18:14:10 End of Duplicate Event data  
18:14:25 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:14:25 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED],  
18:14:25 Caller Address = [REDACTED] OTAHUNA ROAD, TAI TAPU, SELWYN DISTRICT, Call Source =  
18:14:25 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:14:25 INC INFO: SCRUB FIRE  
18:14:25 End of Duplicate Event data  
18:14:39 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:14:39 - VEGETATION FIRE, Caller Name = TELECOM/PREPAID, Caller Ph Number =  
18:14:39 [REDACTED], Caller Address = TELECOM CELLULAR 027,, Call Source = 111Inc  
18:14:39 InfoFIRE IN VICINITY, Event Source = Fire 111  
18:14:39 INC INFO: FIRE IN VICINITY  
18:14:39 End of Duplicate Event data  
18:16:02 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:16:02 - VEGETATION FIRE, Caller Name = LYTTELTON, Caller Ph Number = [REDACTED]  
18:16:02 Caller Address = TELECOM CELLULAR 027, UNKNOWN, UNKNOWN, Call Source = 111Inc  
18:16:02 InfoVEGETATION FIRE, Event Source = Fire 111  
18:16:02 INC INFO: VEGETATION FIRE  
18:16:02 End of Duplicate Event data  
18:16:17 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG  
18:16:17 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
18:16:17 [REDACTED], Caller Address = [REDACTED] RAPAHI DRIVE, RAPAHI, CHRISTCHURCH CITY, Call  
18:16:17 Source = 111Inc InfoSCRUB FIRE, Event Source = Fire 111  
18:16:18 INC INFO: SCRUB FIRE  
18:16:18 End of Duplicate Event data  
18:24:17 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNNE,SELWYN DISTRICT, Type = VEG

18:24:17 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Caller Address = TEDDINGTON,  
18:24:17 Call Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire 111  
18:24:17 INC INFO: VEGETATION FIRE  
18:24:17 End of Duplicate Event data  
18:26:14 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:26:14 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc  
18:26:14 InfoVEGETATION FIRE, Event Source = Fire 111  
18:26:14 INC INFO: VEGETATION FIRE  
18:26:14 End of Duplicate Event data  
18:28:11 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:28:11 - VEGETATION FIRE, Caller Name = FULTON HOGAN LIMITED - [REDACTED], Caller Ph  
18:28:11 Number = [REDACTED], Caller Address = TELECOM CELLULAR 027, BELFAST,  
18:28:11 CHRISTCHURCH CITY, Call Source = 111Inc InfoVEGETATION FIRE, Event Source = Fire  
18:28:11 111  
18:28:12 THIS CALLER HAS EVACFUTED HOUSES OUY TO THE ROAD - HE ALSO ADVISES THAT  
18:28:12 THERE  
18:28:12 ARE 2 HOUSES OT THE TOP THAT HAVE SWIMMING POOLS  
18:28:12 \*\*\*\*\*  
18:28:12 \*\*\*\*\*  
18:28:12 INC INFO: VEGETATION FIRE  
18:28:12 End of Duplicate Event data  
18:29:57 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN  
18:29:57 - MINOR, Caller Name = [REDACTED] Caller Ph Number = [REDACTED], Caller  
18:29:57 Address = [REDACTED] HAYS RISE, GOVERNORS BAY, CHRISTCHURCH CITY, Call Source = 111Inc  
18:29:57 InfoSMOKE IN AREA, Event Source = Fire 111  
18:29:57 INC INFO: SMOKE IN AREA  
18:29:57 End of Duplicate Event data  
18:30:52 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
18:30:52 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =  
18:30:52 [REDACTED] Caller Address = [REDACTED] WORSLEYS ROAD, CRACROFT, CHRISTCHURCH CITY,  
18:30:52 Call Source = 111Inc InfoSMOKE SHOWING OVER THE HILL , Event Source = Fire 111  
18:30:52 INC INFO: SMOKE SHOWING OVER THE HILL  
18:30:52 End of Duplicate Event data  
18:33:16 Duplicate Event: SELWYN DISTRICTCross Street [REDACTED] SELWYN RDCross Street 2WATERHOLES  
18:33:16 RD, Type = MIN MINOR, Subtype = default, Caller Name = [REDACTED]  
18:33:16 Caller Ph Number = [REDACTED], Caller Address = [REDACTED] WEEDONS ROAD, ROLLESTON,  
18:33:16 SELWYN DISTRICT, Call Source = 111Alarm Level1Inc InfoSMOKE IN THE VICINITY,  
18:33:16 Event Source = Fire 111  
18:33:18 INC INFO: SMOKE IN THE VICINITY  
18:33:18 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP  
18:33:18 RECOMMENDED.  
18:33:18 \*\* LOI search completed at 13/02/17 18:03:03  
18:33:18 CALLER DOESNT THINK ITS FROM THE EARLY VALLEY  
18:33:18 SHE BELIEVES IT TO BE CLOSER  
18:33:18 TO HER ADDRESS  
18:33:18 Duplicate Event:Location = SELWYN RD,/WATERHOLES RD,ROLLESTON,SELWYN DISTRICT,  
18:33:18 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED]. TESA LOOKUP

RECOMMENDED.

18:33:18 INC INFO: SCRUB ON FIRE

18:33:18 Type = VEG - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph

18:33:18 Number = [REDACTED], Caller Address = [REDACTED] WEEDONS ROAD, ROLLESTON, SELWYN

18:33:18 DISTRICT, Call Source = 111Inc InfoSCRUB ON FIRE, Event Source = Fire 111

18:33:18 End of Duplicate Event data

18:52:09 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN

18:52:09 - MINOR, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoFIRE IN

18:52:09 VICINITY, Event Source = Fire 111

18:52:09 INC INFO: FIRE IN VICINITY

18:52:09 End of Duplicate Event data

18:57:35 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN

18:57:35 - MINOR, Caller Name = [REDACTED] Caller Ph Number = [REDACTED],

18:57:35 Caller Address = [REDACTED] PHIPPS COURT, LINCOLN, SELWYN DISTRICT, Call Source = 111Inc

18:57:35 InfoSMOKE IN AREA, Event Source = Fire 111

18:57:35 INC INFO: SMOKE IN AREA

18:57:35 End of Duplicate Event data

18:58:37 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Caller

18:58:37 Name = [REDACTED], Caller Ph Number = [REDACTED], Caller Address = [REDACTED]

18:58:37 PERYMANS ROAD, LINCOLN, SELWYN DISTRICT, Call Source = 111, Event Source = Fire

18:58:37 111

18:58:37 INC INFO:

18:58:37 MULTIPLE SUBSCRIBERS FOR CALLER NUMBER [REDACTED] TESA LOOKUP

18:58:37 RECOMMENDED.

18:58:37 End of Duplicate Event data

19:07:14 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN

19:07:14 - MINOR, Caller Name = NEW ZEALAND POLICE, Caller Ph Number = [REDACTED] Caller

19:07:14 Address = [REDACTED] ST ASAPH STREET, CHRISTCHURCH CENTRAL, CHRISTCHURCH CITY, Call

19:07:14 Source = 111Inc InfoSMOKE IN AREA, Event Source = Fire 111

19:07:14 INC INFO: SMOKE IN AREA

19:07:14 End of Duplicate Event data

19:10:24 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG

19:10:24 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =

19:10:24 [REDACTED] Caller Address = [REDACTED] JAMES STREET, LINCOLN, SELWYN DISTRICT, Call

19:10:24 Source = 111Inc InfoFIRE IN PLANTATION, Event Source = Fire 111

19:10:25 INC INFO: FIRE IN PLANTATION

19:10:25 End of Duplicate Event data

19:36:30 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN

19:36:30 - MINOR, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSMOKE IN THE

19:36:30 AREA, Event Source = Fire 111

19:36:30 INC INFO: SMOKE IN THE AREA

19:36:31 End of Duplicate Event data

19:39:27 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG

19:39:27 - VEGETATION FIRE, Caller Name = [REDACTED], Caller Ph Number =

19:39:27 [REDACTED], Caller Address = [REDACTED] FLORIN PLACE, PREBBLETON, SELWYN DISTRICT, Call

19:39:27 Source = 111Inc InfoFIRE ON THE HILLS, Event Source = Fire 111

19:39:27 INC INFO: FIRE ON THE HILLS

19:39:27 End of Duplicate Event data  
19:58:12 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN  
19:58:12 - MINOR, Caller Name = [REDACTED], Caller Ph Number = [REDACTED]  
19:58:12 Caller Address = [REDACTED] HILLIER PLACE, SPREYDON, CHRISTCHURCH CITY, Call Source =  
19:58:12 111Inc InfoSMOKE IN THE AREA, Event Source = Fire 111  
19:58:12 INC INFO: SMOKE IN THE AREA  
19:58:12 End of Duplicate Event data  
20:21:28 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = MIN  
20:21:28 - MINOR, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoSMOKE IN AREA,  
20:21:28 Event Source = Fire 111  
20:21:29 INC INFO: SMOKE IN AREA  
20:21:29 End of Duplicate Event data  
21:05:34 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type =  
21:05:34 STRU - STRUCTURE FIRE, Caller Name = SELWYN DISTRICT COUNCIL (MOBILE), Caller Ph  
21:05:34 Number = [REDACTED], Caller Address = TELECOM CELLULAR 027,, Call Source =  
21:05:34 111Inc InfoFIRE THREATENING HOUSE, Event Source = Fire 111  
21:05:34 INC INFO: FIRE THREATENING HOUSE  
21:05:35 End of Duplicate Event data  
00:13:33 Duplicate Event: POTTERS LA SELWYN DISTRICTCross Street [REDACTED] BURKES BUSH RD, Type =  
00:13:33 VEG VEGETATION FIRE, Subtype = default, Caller Ph Number = [REDACTED], Call  
00:13:33 Source = 111Alarm Level1Inc InfoFIRE IS REIGNITED, Event Source = Fire 111  
00:13:34 INC INFO: FIRE IS REIGNITED  
00:13:34 \*\* ELOI search completed at 14/02/17 00:10:44 - 1 result  
00:13:34 \*\* LOI search completed at 14/02/17 00:10:47  
00:13:34 End of Duplicate Event data  
00:23:25 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD SELWYN DISTRICTCross Street [REDACTED] OLD  
00:23:25 TAI TAPU RD, Type = VEG VEGETATION FIRE, Subtype = default, Caller Ph Number =  
00:23:25 [REDACTED] Call Source = 111Alarm Level1Inc InfoFIRE RIGHT BY THE FRONT DOOR,  
00:23:25 Event Source = Fire 111  
00:23:27 INC INFO: FIRE RIGHT BY THE FRONT DOOR  
00:23:27 \*\* ELOI search completed at 14/02/17 00:22:05 - 1 result  
00:23:27 \*\* LOI search completed at 14/02/17 00:22:07  
00:23:27 End of Duplicate Event data  
05:15:20 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
05:15:20 - VEGETATION FIRE, Caller Name = INDEPENDENT DISTRIBUTORS LIMITED, Caller Ph  
05:15:20 Number = [REDACTED] Caller Address = TELECOM CELLULAR 027, MOTUEKA, TASMAN  
05:15:20 DISTRICT, Call Source = 111Inc InfoFIRE IN PORT HILLS , Event Source = Fire 111  
05:15:21 INC INFO: FIRE IN PORT HILLS  
05:15:21 INC INFO: FIRE IN PORT HILLS  
05:15:21 End of Duplicate Event data  
07:41:33 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
07:41:33 - VEGETATION FIRE, Caller Ph Number = [REDACTED], Call Source = 111Inc InfoHOT  
07:41:33 SPOTS AT THE BOTTOM OF THE VALLEY , Event Source = Fire 111  
07:41:34 INC INFO: HOT SPOTS AT THE BOTTOM OF THE VALLEY  
07:41:34 End of Duplicate Event data  
07:46:55 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG

07:46:55 - VEGETATION FIRE, Caller Name = PREPAID/PREPAID, Caller Ph Number =  
07:46:55 [REDACTED], Caller Address = TELECOM CELLULAR 027, KARORI, WELLINGTON CITY,  
07:46:55 Call Source = 111Inc InfoFIRE STARTED LOWER DOWN RD , Event Source = Fire 111  
07:46:55 INC INFO: FIRE STARTED LOWER DOWN RD  
07:46:55 End of Duplicate Event data  
10:21:07 Duplicate Event: EARLY VALLEY RD SELWYN DISTRICTCross Street [REDACTED] OLD TAI TAPU RD,  
10:21:07 Type = VEG VEGETATION FIRE, Subtype = default, Caller Ph Number = [REDACTED]  
10:21:07 Call Source = 111Alarm Level1Inc InfoBROOME BUSHES ON FIRE, Event Source = Fire  
10:21:07 111  
10:21:08 INC INFO: BROOME BUSHES ON FIRE  
10:21:08 \*\* ELOI search completed at 14/02/17 10:14:52 - 1 result  
10:21:08 \*\* LOI search completed at 14/02/17 10:14:54  
10:21:08 CALLER AT [REDACTED] EARLY VALLEY RD SAYS ANOTHER FIRE TOWARDS THE END OF THE  
ROAD ON  
10:21:08 THE RIGHT GETTING CLOSE TO HOUSES AND IS WORRIED  
10:21:08 End of Duplicate Event data  
11:36:52 Duplicate Event: NULL CHRISTCHURCH CITY @GOVERNORS BAYCross Street  
[REDACTED] CRYSTALWOOD  
11:36:52 LACross Street [REDACTED] JETTY RD, Type = ADV ADVISED, Subtype = default, Caller Name =  
11:36:52 [REDACTED] Caller Ph Number = [REDACTED], Caller Address = [REDACTED] MAIN  
11:36:52 ROAD, GOVERNORS BAY, CHRISTCHURCH CITY, Call Source = 111Alarm Level1Inc  
11:36:52 InfoFIRE BETWEEN BIVVY TRK AND ELLAS TRK, Event Source = Fire 111  
11:36:53 INC INFO: FIRE BETWEEN BIVVY TRK AND ELLAS TRK  
11:36:53 \*\* ELOI search completed at 14/02/17 11:33:19 - 1 result  
11:36:53 \*\* LOI search completed at 14/02/17 11:33:26  
11:36:53 CALLER CLAIMED THE FIRE IS BURNING DOWN THE HILL  
11:36:53 PASSED TO EOC SELWYN TO LOGISTICS DESK  
11:36:54 End of Duplicate Event data  
12:21:30 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD SELWYN DISTRICTCross Street 10LD  
12:21:30 TAI TAPU RD, Type = ADV ADVISED, Subtype = default, Caller Name = NORTH WEST  
12:21:30 LTD, Caller Ph Number = [REDACTED], Caller Address = TELECOM CELLULAR 027,  
12:21:30 OAMARU, WAITAKI DISTRICT, Call Source = 111Alarm Level1Inc InfoFIRE GETTING  
12:21:30 REALLY CLOSE TO BOUNDARY , Event Source = Fire 111  
12:21:31 INC INFO: FIRE GETTING REALLY CLOSE TO BOUNDARY  
12:21:31 \*\* ELOI search completed at 14/02/17 12:10:39 - 1 result  
12:21:31 \*\* LOI search completed at 14/02/17 12:10:41  
12:21:31 \*\* Event Type changed from MIN to ADV at: 14/02/17 12:10:53  
12:21:31 \*\* Event Priority changed from 2 to 9 at: 14/02/17 12:10:53  
12:21:31 \*\*  
12:21:31 \*\*  
12:21:31 BOUNDARY OF PROPERTY  
12:21:31 INFO PASSED TO SELW9480  
12:21:31 End of Duplicate Event data  
12:56:50 Duplicate Event: SUMMIT RD CHRISTCHURCH CITYCross Street [REDACTED] DYERS PASS RDCross  
12:56:50 Street [REDACTED] WORSLEYS RD, Type = VEG VEGETATION FIRE, Subtype = default, Caller Name  
12:56:50 = [REDACTED] Caller Ph Number [REDACTED] Caller Address = TELECOM  
12:56:50 CELLULAR 027, WELLINGTON CENTRAL, WELLINGTON CITY, Call Source = 111Alarm

12:56:50 Level1Inc InfoSCRUB FIRE, Event Source = Fire 111  
12:56:51 FIRE HAS NOW GONE OVER THE RIDGE  
12:56:51 INC INFO: SCRUB FIRE  
12:56:51 \*\* ELOI search completed at 14/02/17 12:54:18 - 1 result  
12:56:51 \*\* LOI search completed at 14/02/17 12:54:20  
12:56:51 NOT RFO HAND ADVISED  
12:56:51 End of Duplicate Event data  
15:37:54 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type =  
15:37:54 ADV - ADVISED, Caller Name = [REDACTED], Caller Ph Number =  
15:37:54 [REDACTED] Call Source = 111Inc InfoFIRE COMING OUT OF FORREST , Event Source =  
15:37:54 Fire 111  
15:37:54 INC INFO: FIRE COMING OUT OF FORREST  
15:37:54 End of Duplicate Event data  
16:15:33 Duplicate Event: MAIN RD CHRISTCHURCH CITYCross Street [REDACTED] HOLLYBANK LACross Street  
16:15:33 [REDACTED] GOVERNORS BAY TEDDINGTON RD, Type = VEG VEGETATION FIRE, Subtype = default,  
16:15:33 Caller Name = [REDACTED] Caller Ph Number = [REDACTED], Caller  
16:15:33 Address = [REDACTED] MAIN ROAD, GOVERNORS BAY, CHRISTCHURCH CITY, Call Source = 111Alarm  
16:15:33 Level1Inc InfoREPORT FIRE HAS BROKEN INTO GULLY, Event Source = Fire 111  
16:15:34 INC INFO: REPORT FIRE HAS BROKEN INTO GULLY  
16:15:34 \*\* ELOI search completed at 14/02/17 16:07:23 - 1 result  
16:15:34 \*\* LOI search completed at 14/02/17 16:07:24  
16:15:34 CALLER WITH LOCAL CIVIL DEFENCE  
16:15:34 SAYS FIRE HAS BROKEN OUT OF GULLY  
16:15:34 COMING INTO VALLEY ABOVE ADDRESS  
16:15:34 CAN SEE HELICOPTERS FIGHTING OTHER FIRE  
16:15:34 BEST ACCESS POSSIBLY THROUGH [REDACTED] MAIN RD  
16:15:34 XX  
16:15:34 INC INFO: SMOKE AND EMBERS IN THE AREA  
16:15:34 Duplicate Event:Location = MAIN RD,ALLANDALE,CHRISTCHURCH CITY, Type = MIN -  
16:15:34 MINOR, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]  
16:15:34 Caller Address = [REDACTED] NGAIO LANE, CHARTERIS BAY, CHRISTCHURCH CITY, Call Source =  
16:15:34 111Inc InfoSMOKE AND EMBERS IN THE AREA , Event Source = Fire 111  
16:15:34 End of Duplicate Event data  
16:42:54 Duplicate Event: KENNEDYS BUSH RD CHRISTCHURCH CITYCross Street [REDACTED] KAPUKA LACross  
16:42:54 Street [REDACTED] WATLINGS PL, Type = VEG VEGETATION FIRE, Subtype = default, Caller Name  
16:42:54 = [REDACTED], Caller Ph Number = [REDACTED], Caller Address = TELECOM  
16:42:54 CELLULAR 027, KAIPARA FLATS, AUCKLAND CITY, Call Source = 111Alarm Level1Inc  
16:42:54 InfoFLAMES SEEN FROM, Event Source = Fire 111  
16:42:54 YOU WALK UP AND THERE IS A WALKING TRACK AND A DIRT TRACK  
16:42:54 GETTING CLOSE TO THE HOUSES  
16:42:54 UPHILL  
16:42:54 INC INFO: FLAMES SEEN FROM  
16:42:54 \*\* ELOI search completed at 14/02/17 16:40:06 - 1 result  
16:42:54 \*\* LOI search completed at 14/02/17 16:40:09  
16:42:54 \*\* ELOI search completed at 14/02/17 16:40:27 - 1 result  
16:42:54 \*\* LOI search completed at 14/02/17 16:40:29

16:42:55 End of Duplicate Event data  
16:45:49 Duplicate Event: MAIN RD CHRISTCHURCH CITY @ST CUTHBERTS ANGLICAN CHURCH  
16:45:49 OHINETAHICross Street [REDACTED] HOLLYBANK LACross Street [REDACTED] GOVERNORS BAY TEDDINGTON RD,  
16:45:49 Type = ADV ADVISED, Subtype = default, Caller Name = ANGLICAN DIOCESE OF  
16:45:49 CHRISTCHURCH, Caller Ph Number = [REDACTED], Caller Address = [REDACTED] MAIN SOUTH  
16:45:49 ROAD, SOCKBURN, CHRISTCHURCH CITY, Call Source = 111Alarm Level1Inc InfoFIRE  
16:45:49 GETTING CLOSE TO HISTORIC BUILDING , Event Source = Fire 111  
16:45:50 INC INFO: FIRE GETTING CLOSE TO HISTORIC BUILDING  
16:45:50 \*\* ELOI search completed at 14/02/17 16:39:57 - 1 result  
16:45:50 \*\* LOI search completed at 14/02/17 16:39:59  
16:45:50 End of Duplicate Event data  
19:02:13 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD SELWYN DISTRICT, 6Cross Street  
19:02:13 [REDACTED] OLD TAI TAPU RD, Type = ADV ADVISED, Subtype = default, Call Source = 111Alarm  
19:02:13 Level1Inc InfoFIRE FLARE UP  
19:02:14 INC INFO: FIRE FLARE UP  
19:02:14 \*\* ELOI search completed at 14/02/17 18:44:56 - 1 result  
19:02:14 \*\* LOI search completed at 14/02/17 18:44:58  
19:02:14 CALL FROM RESIDENT  
19:02:14 FIRE FLARE UP AT THE LOCATION OF WHERE THE HOUSE BURNT DOWN  
19:02:14 End of Duplicate Event data  
06:41:47 Duplicate Event:Location = [REDACTED] EARLY VALLEY RD SELWYN DISTRICTCross Street 1OLD  
06:41:47 TAI TAPU RD, Type = VEG VEGETATION FIRE, Subtype = default, Caller Name =  
06:41:47 [REDACTED], Caller Ph Number = [REDACTED], Caller Address = TELECOM CELLULAR  
06:41:47 027, KARORI, WELLINGTON CITY, Call Source = 111Alarm Level1Inc InfoREIGNITION OF  
06:41:47 FIRE, Event Source = Fire 111  
06:41:49 INC INFO: REIGNITION OF FIRE  
06:41:49 \*\* ELOI search completed at 15/02/17 06:34:47 - 1 result  
06:41:49 \*\* LOI search completed at 15/02/17 06:34:49  
06:41:49 THREATENING PROPERTY  
06:41:49 DESCRIBED AS SIZE OF A LARGE TRUCK  
06:41:49 \*\* Recommended unit ADDI221 for requirement PUMP (>7.8 km)  
06:41:49 AL: PAGING ACK RECEIVED FROM STATION 3422 at 15/02/17 06:37:26  
06:41:49 .  
06:41:49 RFOSELWYN1 WILL RESPOND A SMOKE CHASER TO THIS FIRE  
06:41:49 \*\* Event held for 60 minutes and unit ADDI221  
06:41:49 End of Duplicate Event data  
06:47:16 Duplicate Event: EARLY VALLEY RD SELWYN DISTRICTCross Street [REDACTED] OLD TAI TAPU RD,  
06:47:16 Type = VEG VEGETATION FIRE, Subtype = default, Caller Ph Number = [REDACTED]  
06:47:16 Call Source = 111Alarm Level1Inc InfoNEW FIRE, Event Source = Fire 111  
06:47:17 INC INFO: NEW FIRE  
06:47:17 \*\* ELOI search completed at 15/02/17 06:42:58 - 1 result  
06:47:17 \*\* LOI search completed at 15/02/17 06:43:03  
06:47:17 APPROX 400 METERS BELOW THE BURNT OUT AREA  
06:47:17 End of Duplicate Event data  
06:49:01 Duplicate Event:Location = EARLY VALLEY RD,LANSDOWNE,SELWYN DISTRICT, Type = VEG  
06:49:01 - VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]

06:49:01 Caller Address = █████ KENNEDYS BUSH ROAD, KENNEDYS BUSH, CHRISTCHURCH CITY,  
Call

06:49:01 Source = 111Inc InfoFIRE IN TREES, Event Source = Fire 111

06:49:01 INC INFO: FIRE IN TREES

06:49:02 End of Duplicate Event data

07:31:53 Duplicate Event: MAIN RD CHRISTCHURCH CITYCross Street █████ HOLLYBANK LACross Street  
07:31:53 █████ GOVERNORS BAY TEDDINGTON RD, Type = ADV ADVISED, Subtype = default, Caller Ph  
07:31:53 Number = █████ Call Source = 111Alarm Level1Inc InfoBLOCK OF PINES TREE  
07:31:53 ON FIRE , Event Source = Fire 111

07:31:55 INC INFO: BLOCK OF PINES TREE ON FIRE

07:31:55 \*\* ELOI search completed at 15/02/17 07:27:56 - 1 result

07:31:55 \*\* LOI search completed at 15/02/17 07:27:59

07:31:55 INC INFO: BLOCK OF PINE TREES ON FIRE

07:31:55 Duplicate Event:Location = MAIN RD,ALLANDALE,CHRISTCHURCH CITY, Type = VEG -  
07:31:55 VEGETATION FIRE, Call Source = 111Inc InfoBLOCK OF PINE TREES ON FIRE

07:31:55 End of Duplicate Event data

07:32:06 Duplicate Event:Location = █████ ALLANDALE LA CHRISTCHURCH CITYCross Street  
07:32:06 █████ GOVERNORS BAY TEDDINGTON RD, Type = ADV ADVISED, Subtype = default, Caller Ph  
07:32:06 Number = █████ , Call Source = 111Alarm Level1Inc InfoFIRE GETTING NEAR  
07:32:06 HOUSE, Event Source = Fire 111

07:32:07 INC INFO: FIRE GETTING NEAR HOUSE

07:32:07 \*\* ELOI search completed at 15/02/17 07:22:41 - 1 result

07:32:07 \*\* LOI search completed at 15/02/17 07:22:43

07:32:07 .

07:32:08 End of Duplicate Event data

07:45:29 Duplicate Event: GOVERNORS BAY TEDDINGTON RD CHRISTCHURCH CITYCross Street  
07:45:29 █████ ALLANDALE LACross Street █████ MAIN RD, Type = VEG VEGETATION FIRE, Subtype =  
07:45:29 default, Caller Ph Number = █████ Call Source = 111Alarm Level1, Event  
07:45:29 Source = Fire 111

07:45:30 INC INFO:

07:45:30 \*\* ELOI search completed at 15/02/17 07:45:19 - 1 result

07:45:30 \*\* LOI search completed at 15/02/17 07:45:21

07:45:30 End of Duplicate Event data

09:51:24 Duplicate Event:Location = █████ HOLMES RD SELWYN DISTRICTCross Street █████ OLD TAI  
09:51:24 TAPU RDCross Street █████ HOLMESWOOD RISE, Type = STRU STRUCTURE FIRE, Subtype =  
09:51:24 default, Caller Name = █████ , Caller Ph Number = █████  
09:51:24 Caller Address = TELECOM CELLULAR 027, ONEROA, AUCKLAND CITY, Call Source =  
09:51:24 111Alarm Level1Inc InfoTREES ON FIRE AND HOUSE IN DANGER, Event Source = Fire  
09:51:24 111

09:51:26 INC INFO: TREES ON FIRE

09:51:26 \*\* ELOI search completed at 15/02/17 09:41:35 - 1 result

09:51:26 \*\* LOI search completed at 15/02/17 09:41:37

09:51:26 █████

09:51:26 █████

09:51:26 RETIRED FIRE FIGHTER IN ATTENDANCE

09:51:26 HOUSE IS IN ENDANGER

09:51:26 IN DANGER  
09:51:26 FIRE FIGHTER IS ADVISING CALLER TO BLOCK DRAIN PIPES AND FILL GUTTERS WITH WATER  
09:51:26 \*\* Event Type changed from VEG to STRU at: 15/02/17 09:43:53  
09:51:26 \*\* Event Priority changed from 2 to 1 at: 15/02/17 09:43:53  
09:51:26 \*\*  
09:51:26 \*\*  
09:51:26 SELW9480 RESPONDING CREWS ROUND THERE NOW  
09:51:26 T3 TIMES - WHEN CALLER WAS ASKED 'HOLMES ROAD IN WHAT AREA' SHE ANSWERED WITH  
09:51:26 'WHERE THE BIG FIRE IS...' - SHE WASN'T FORTHCOMING WITH THE AREA NOR WHAT ROAD  
09:51:26 HOLMES ROAD CAME OFF  
09:51:27 End of Duplicate Event data  
07:10:22 Duplicate Event: SUMMIT RD SELWYN DISTRICT @AIRWAYS CORPORATION OF NEW ZEALAND  
07:10:22 CASS PEAK SECONDARY RADAR Cross Street [REDACTED] WORSLEYS RD Cross Street [REDACTED] GEBBIES PASS RD,  
07:10:22 Type = ADV ADVISED, Subtype = default, Caller Name = AIRWAYS CORPORATION OF NEW  
07:10:22 ZEALAND LTD, Caller Ph Number = [REDACTED], Caller Address = [REDACTED] SIR WILLIAM  
07:10:22 PICKERIN DRIVE, BURNSIDE, CHRISTCHURCH CITY, Call Source = 111 Alarm Level 1 Inc  
07:10:22 InfoRADAR HEADS ON CASS PEAKE, Event Source = Fire 111  
07:10:23 RADAR HEADS  
07:10:23 GOLF BALL TYPE RADAR ON CASS PEAKE ON THE RIDGE LINE  
07:10:23 CRITICAL FOR AIRLINES TRAFFIC CONTROL  
07:10:23 0335  
07:10:23 TECHINICAL CO-ORDINATOR  
07:10:23 INC INFO: RADAR HEADS ON CASS PEAKE  
07:10:23 \*\* LOI search completed at 13/02/17 19:42:54  
07:10:23 \*\* ELOI search completed at 13/02/17 19:42:54 - 1 result  
07:10:23 \*\* Event Location changed from "SUMMIT RD,KENNEDYS BUSH,CHRISTCHURCH CITY" to  
07:10:23 "SUMMIT RD,ALLANDALE,SELWYN DISTRICT: @AIRWAYS CORPORATION OF NEW ZEALAND CASS  
07:10:23 PEAK SECONDARY RADAR" at: 13/02/17 19:49:50  
07:10:23 \*\*  
07:10:23 \*\* ELOI search completed at 13/02/17 19:49:51 - 1 result  
07:10:23 \*\* LOI search completed at 13/02/17 19:49:53  
07:10:23 1000L DIESEL TANK (CONCRETE) AND LARGE BANK OF BATTERIES ON SITE  
07:10:23 GENERATOR IS RUNNING AT PRESENT  
07:10:23 INC INFO: SMOKE SHOWING BY RADAR DOME  
07:10:23 Duplicate Event: Location = SUMMIT RD,KENNEDYS BUSH,SELWYN DISTRICT, Type = VEG -  
07:10:23 VEGETATION FIRE, Caller Name = [REDACTED] Caller Ph Number = [REDACTED]  
07:10:23 Caller Address = TELECOM CELLULAR 027, BLENHEIM, MARLBOROUGH DISTRICT, Call  
07:10:23 Source = 111 Inc Info SMOKE SHOWING BY RADAR DOME, Event Source = Fire 111  
07:10:23 End of Duplicate Event data  
07:10:23 Duplicate Event: Location = SUMMIT RD,ALLANDALE,SELWYN DISTRICT, Type = ADV -  
07:10:23 ADVISED, Caller Name = STREAM GROUP (NZ) PTY LIMITED, Caller Ph Number =  
07:10:23 [REDACTED] Caller Address = TELECOM CELLULAR 027, KARORI, WELLINGTON CITY,  
07:10:23 Call Source = 111 Inc Info FIRE ALLANDALE SIDE , Event Source = Fire 111

07:10:23 End of Duplicate Event data  
07:14:49 Duplicate Event: CHRISTCHURCH CITY Cross Street [REDACTED] EARLY VALLEY RDCross Street [REDACTED] OLD  
07:14:49 TAI TAPU RD, Type = NE NON EMERGENCY, Subtype = default, Call Source = EXCHAlarm  
07:14:49 Level1Inc InfoCOVER MOVE TO CONTROL POINT  
07:14:50 INC INFO: COVER MOVE TO CONTROL POINT  
07:14:50 \*\* ELOI search completed at 15/02/17 15:13:58 - 1 result  
07:14:50 \*\* LOI search completed at 15/02/17 15:14:00  
07:14:50 Unit DUNS4411 [ K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]  
07:14:50 Unit WAIK1811 [ K22-1 : UNIT AVAILABLE FOR A FURTHER EVENT]  
07:14:50 Unit WAIK1811 [ K1 : PROCEEDING TO INCIDENT]  
07:14:50 \*\* Event held for 60 minutes and unit WAIK1811  
07:14:50 End of Duplicate Event data  
07:15:34 Duplicate Event: NULL CHRISTCHURCH CITY @KENNEDYS BUSHCross Street [REDACTED] HYNDHOPE  
07:15:34 RDCross Street [REDACTED] KAPUKA LA, Type = 1F POL2FIR ASSIST FIRE/AMBULANCE/TRAFFIC  
07:15:34 POLICE REQUEST FIRE ASSIST, Subtype = 2 default, Call Source = PHONEAlarm  
07:15:34 Level1Inc InfoUNITS STATING FIRE GETTING VERY CLOSE - THEY ARE STARTING EVAC  
07:15:35 HEADLINE: UNITS STATING FIRE GETTING VERY CLOSE - THEY ARE STARTING EVAC  
07:15:35 \*\* LOI search completed at 15/02/17 16:20:17  
07:15:35 RRRR  
07:15:35 \*\* ELOI search completed at 15/02/17 16:20:39 - 1 result  
07:15:35 CALLS BEING MADE TO RESIDENTS OF KENNEDYS BUSH  
07:15:35 CHS5C - O/C  
07:15:35 CORDON - KENNEDYS BUSH/CASHMERE  
07:15:35 \*\* LOI search completed at 15/02/17 16:27:10  
07:15:35 \*\* LOI search completed at 15/02/17 16:34:22  
07:15:35 .  
07:15:35 CHI56 CLEARING WATLINGS  
07:15:35 .  
07:15:35 [REDACTED] STAFF ON CORDON, STOPPING TRAFFIC  
07:15:35 SFP [REDACTED] KENNEDY BUSY ROAD,  
07:15:35 THERE IS A [REDACTED] KENNEDYS BUSH RD, IN CASE WE NEED TO  
07:15:35 EVACUATE FURTHER  
07:15:35 .  
07:15:35 [REDACTED] KENNEDYS BUSH ROAD  
07:15:35 FIRE IS ADVANCING  
07:15:35 .  
07:15:35 THE ROACKS HAVE BEEN CLEAERED  
07:15:35 .  
07:15:35 [REDACTED] UP HAS BEEN CLEARED  
07:15:35 ALL OF KENNEDEYS BUSH WILL BE EVACUATED IN CASE OF WIND CHANGE  
07:15:35 .  
07:15:35 \*SEN ADVISED ABOUT [REDACTED] - WILL HAVE STAFF EVA THEM  
07:15:35 [REDACTED] - MOP WERE GOING TO EVAC THEM - WILL DOUBLE CHECK THIS  
07:15:35 .  
07:15:35 .  
07:15:35 .

07:15:35 \*ALL STAFF LEAVING TOP OF KENNEDYS BUSH ROAD  
07:15:35 .  
07:15:35 \*COMMS ARE MAKING CALLS TO ALL PROPERTIES ON KENNEDYS BUSH ROAD TO EVA  
07:15:35 UNITS PULLING OUT  
07:15:35 FIRE CROSSING ROAD APPROX [REDACTED]  
07:15:35 .  
07:15:35 [REDACTED] UP HAS NOW BEEN DOWN  
07:15:35 CCC DONE  
07:15:35 .  
07:15:35 SEN - UNITS CALLING ALL PROPERTIES ON KENNEDYS  
07:15:35 UNITS WORKING DOWN KENNEDYS BUSH  
07:15:35 .  
07:15:35 DCC ADVISED TO CALL COUNCIL REGARDING A TEXT TO RESIDENTS TO GET TO GET  
07:15:35 READY TO  
07:15:35 EVAC  
07:15:35 .  
07:15:35 \* [REDACTED] KENNEDYS BUSH ROAD - [REDACTED] REFUSING TO LEAVE PROPERTY  
07:15:35 .  
07:15:35 \*PIONEER STADIUM IS OPEN - PEOPLE TO BE DIRECTED THERE  
07:15:35 .  
07:15:35 \*\* LOI search completed at 15/02/17 17:32:52  
07:15:35 [REDACTED] KENNEDYS BUSH ROAD - [REDACTED] NOT RESPONDING TO CALLS  
07:15:35 UNITS GOING TO CHECK ADDRESS  
07:15:35 .  
07:15:35 .  
07:15:35 POLICE VEH ON KENNEDYS BUSH ROAD OUTSIDE [REDACTED]  
07:15:35 KEYS HAVE BEEN LOST/STOLEN  
07:15:35 REGO [REDACTED]  
07:15:35 POSSIBLY CRZ11 IS THE UNIT  
07:15:35 DCC ADVISED - TRYING TO LOCATE SPARE KEYS  
07:15:35 .  
07:15:35 .  
07:15:35 [REDACTED] KENNEDYS BUSH - [REDACTED] - REFUSING TO LEAVE PROPERTY  
07:15:35 .  
07:15:35 \*\*\*REGO FOR VEHICLE ABOVE [REDACTED] \*\*\*  
07:15:35 CCCC  
07:15:35 [REDACTED]  
07:15:35 .  
07:15:35 .  
07:15:35 \*\* Event held for 1500 minutes  
07:15:35 .  
07:15:35 1 CLO UNIT IS PATROLLING IN AREA  
07:15:35 CLO IS HOO1  
07:15:35 HOO1A  
07:15:35 CHW3 IS TAKING CORDON CASHMERE/KENNEDYS  
07:15:35 \*\* LOI search completed at 15/02/17 18:40:59

07:15:35 .  
07:15:35 CRZS11 ADVISES VEHICLE ON KENNEDYS BUSH ROAD HAS BEEN RETRIEVED @1850  
07:15:35 \*\* LOI search completed at 15/02/17 19:32:09  
07:15:35 \*\* LOI search completed at 15/02/17 19:36:30  
07:15:39 End of Duplicate Event data  
10:46:30 Duplicate Event: EST (22m) [REDACTED] DYERS PASS RD,CASHMERE,CHRISTCHURCH CITY, Type =  
10:46:30 1F ASSIST FIRE/AMBULANCE/TRAFFIC, Subtype = 2, Call Source = OFFICER, Alarm  
10:46:30 Level = 1  
10:46:31 Field Event  
10:46:31 \$CHWS2: mobile responder field event created  
10:46:31 \$CHWS2: accuracy +/- 5m  
10:46:31 \$CHWS2: gps location obtained at wed feb 15 2017 18:06:43 gmt 1300 (nzdt)  
10:46:31 \*\* LOI search completed at 15/02/17 18:07:00  
10:46:31 \*\* Event Type changed from 3M(2) to 1F(2) at: 15/02/17 21:02:10  
10:46:31 \*\*  
10:46:31 .  
10:46:31 FIRE IS NOW APPROACHING THE TAKAHE  
10:46:31 EOC REQUESTING UNITS LOOK AT EVACUATING PROPERTIES THERE  
10:46:31 .  
10:46:31 COMMS WILL START CALLING NUMBERS OF PROPERTIES ONCE CONFIRMED ROADS  
10:46:31 .  
10:46:31 CHWS2 WILL SPEAK WITH FIRE ON SCENE TO CONFIRM WHETHER EVACS NEEDED  
10:46:31 .  
10:46:31 .  
10:46:31 SITREP NIL EVAC NEEDED AT THIS STAGE  
10:46:31 EOC STATES EVERYTHING SOUTH OF TAKAHE DRIVE TO BE EVACUATED  
10:46:31 \*\* LOI search completed at 15/02/17 21:28:06  
10:46:31 .  
10:46:31 PEOPLE AT [REDACTED] DYERS PASS ROAD HAVE BEEN ADVISED - LEAVING PROPERTY NOW  
10:46:31 COMMS ARE MAKING CALLS TO SURROUNDING PROPERTIES FOR THEM TO EVAC  
10:46:31 .  
10:46:31 CHWS2 CLEARING [REDACTED] PENTREE TCE  
10:46:31 CASHMERE/HOON HAY VALLEY RD NEW SFP  
10:46:31 FIRE HASNT REACHED DYERS PASS INTERSECTION WITH POWER LINES  
10:46:31 IGNORE ABOVE RE CASHMERE/HOON HAY VALLEY  
10:46:31 CRP44 ASSISTING PENTRE TCE EVAC  
10:46:31 FIRE HAS COME OVER HILL TWDS POWERLINES @2208 - WITHIN 500-800 M FROM  
REPEATER  
10:46:31 [REDACTED] PARKED VIC PARK RD - ATTEMPTS MADE TO CONTACT R/O - NO LUCK SO FAR  
10:46:31 [REDACTED] NUMBER IS [REDACTED] - STRAIGHT TO V/M  
10:46:31 .  
10:46:31 SOUTHERN DCC TAS DCC NCC CCC ADVISED SCC GOING TO AMBER ALERT REGARDING  
THE  
10:46:31 REPEATER THREAT  
10:46:31 .  
10:46:31 IF REPEATER GOES WE WILL LOOSE COMMS COMPLETETY FOR THE SOUTH ISLAND  
10:46:31 .

10:46:31 ■ LONGHURST CLEAR  
10:46:31 VEH ABOVE HAS BEEN MOVED  
10:46:31 .  
10:46:31 CRP44 HOLDING AT RESIDENTIAL EDGE ON DYERS PASS  
10:46:31 \*\* LOI search completed at 15/02/17 22:37:27  
10:46:31 FIRE HASNT REACHED POWER LINES - 100M OFF  
10:46:31 .  
10:46:31 .  
10:46:31 ■ DYERS PASS RESIDENT REFUSING TO LEAVE AT THE MOMENT  
10:46:31 ..  
10:46:31 CHA2 TAKING COMMAND AND CONTROL @ 2300HRS  
10:46:31 CHWS2 OFF 196 DYERS  
10:46:31 CRP44 DYERS/LONGHURST @0132  
10:46:31 CRP44 GOING 10-0  
10:46:33 End of Duplicate Event data  
16:40:12 Duplicate Event: Location = ■ EARLY VALLEY RD SELWYN DISTRICT Cross Street ■ OLD TAI TAPU RD,  
16:40:12 TAI TAPU RD, Type = VEG VEGETATION FIRE, Subtype = default, Caller Ph Number =  
16:40:12 ■■■■■■■■■■, Call Source = 111 Alarm Level 1 Inc Info FLARE UP, Event Source = Fire  
16:40:12 111  
16:40:12 INC INFO: FLARE UP  
16:40:12 \*\* ELOI search completed at 16/02/17 16:18:32 - 1 result  
16:40:12 \*\* LOI search completed at 16/02/17 16:18:34  
16:40:12 Duplicate Event: EARLY VALLEY RD SELWYN DISTRICT Cross Street ■ OLD TAI TAPU RD,  
16:40:12 Type = VEG VEGETATION FIRE, Subtype = default, Caller Name = NORTH WEST LTD,  
16:40:12 Caller Ph Number = ■■■■■■■■■■ Caller Address = TELECOM CELLULAR 027, OAMARU,  
16:40:12 WAITAKI DISTRICT, Call Source = 111 Alarm Level 1 Inc Info FLARE UP ABOVE MACRCARPAS  
16:40:12 END OF VALLEY, Event Source = Fire 111  
16:40:12 INC INFO: FLARE UP ABOVE MACRCARPAS END OF VALLEY  
16:40:12 End of Duplicate Event data  
07:32:51 Duplicate Event: EARLY VALLEY RD SELWYN DISTRICT Cross Street ■ OLD TAI TAPU RD,  
07:32:51 Type = ADV ADVISED, Subtype = default, Caller Ph Number = ■■■■■■■■■■ Call  
07:32:51 Source = 111 Alarm Level 1 Inc Info SMOKE, Event Source = Fire 111  
07:32:51 CALLER DRIVING ON MOTORWAY CAN SEE SMOKE NEAR THE TOP OF THE BURNT AREA  
07:32:51 INC INFO: SMOKE  
07:32:51 \*\* ELOI search completed at 23/02/17 07:28:34 - 1 result  
07:32:51 \*\* LOI search completed at 23/02/17 07:28:37  
07:32:52 End of Duplicate Event data  
20:17:10 Duplicate Event: SUMMIT RD CHRISTCHURCH CITY Cross Street ■ WORSLEYS RDCross  
20:17:10 Street ■ GEBBIES PASS RD, Type = ADV ADVISED, Subtype = default, Caller Name =  
20:17:10 ■■■■■■■■■■, Caller Ph Number = ■■■■■■■■■■, Caller Address = ■■■■■■■■■■ KENNEDYS  
20:17:10 BUSH ROAD, KENNEDYS BUSH, CHRISTCHURCH CITY, Call Source = 111 Alarm Level 1 Inc  
20:17:10 Info SMOKE SEEN, Event Source = Fire 111  
20:17:12 INC INFO: SMOKE SEEN  
20:17:12 \*\* ELOI search completed at 04/03/17 19:44:58 - 1 result  
20:17:12 \*\* LOI search completed at 04/03/17 19:45:00  
20:17:12 RFO ■■■■■■■■■■ ACK PAGE AND IS HAPPY FOR ■■■■■■■■■■ TO HANDLE IT AND IF HE IS REQ  
RE

20:17:12 PAGE RFO CCC AND HE CAN RESPOND  
20:17:12 XXXXXXXXXXXX  
20:17:12 CONTACTED [REDACTED] [REDACTED] RFO CCC  
20:17:12 NO STAFF ON THE HILL TONIGHT!  
20:17:12 NO COMMUNICATION WITH FIRECOM AT ALL!!!!!!  
20:17:12 UNITS ATTACHED TO INCIDENT ARE ALL STOOD DOWN FOR THE EVENING AND AT  
LINCOLN OR  
20:17:12 BURNHAM FOR THE NIGHT  
20:17:12 XX  
20:17:12 RFO [REDACTED] WILL CALL THE CALLER FOR BETTER DETAILS AS THERE ARE SEVERAL  
"SMOKERS"  
20:17:12 STILL VISIBLE IN THAT AREA  
20:17:12 XX  
20:17:12 XXXXXXXXXXXXXXXX  
20:17:12 [REDACTED] [REDACTED] HAS CONTACTED CALLER AND CONFIRMED THIS IS IN A PEATY AREA  
AND HAS  
20:17:12 ALREADY DISSAPEAREDED  
20:17:12 X  
20:17:12 NO ACTION REQUIRED  
20:17:13 End of Duplicate Event data

## Appendix 6 Incendiary Fires Report

### Incendiary fire calls Christchurch Fire Area 13 Feb 2016 – 13 Feb 2017

447

### Suspicious fire calls on 13 February 2017 in Christchurch Metro Fire Area

1. F2245450 1445 hrs – Addington School, 21 Brougham St – Vehicle fire
2. F2245759 2013 hours Suburbs Rugby Football Club 99 Mathers Rd, Hoon Hay – structure – (hall)

### Fire Calls – Incendiary close to Point of fire origin Early Valley Road fire in the month before

1. F2228605 18 January 2017 2232 hrs – [REDACTED] Milns Rd, Halswell – Structure (Shed)
2. F2232715 24 January 2017 2054 Hrs – [REDACTED] Milns Rd, Halswell – Structure (house minor damage)
3. F2233438 26 January 2017 0118 hrs – William Brittan Ave, Halswell – Vehicle fire
4. F2234110 26 January 2017 2330 hrs – Oaklands School 37 Cunningham Place, Halswell – Rubbish skip
5. F2234130 27 January 2017 0123 Hrs – Nicholls Rd, Halswell – Structure (house – offenders apparently identified)
6. F2240522 5 February 2017 2307 hrs – [REDACTED] Kennedys Bush Rd, Halswell – vegetation (Nikau palm)
7. F2241758 8 February 2017 0358 hrs [REDACTED] Wales St, Halswell – vehicle fire

## Appendix 7- Terms of Reference

Page 1 of 3

1. Incident Name	2. Rural Fire Authority	Terms of Reference
Early Valley Road (F2245608)	Selwyn District	
3. Location and Summary of the Incident		
The fire start was reported via 111 as a scrub fire at 17744 per the NZFS ICAD system.		
4. Names & contact details of key personnel		
Douglas Marshall Principal Rural Fire Officer		

*This document is the National Rural Fire Authority approved and recommend template for use in NZ Wildfire Investigation. It is intended to provide RFAs and fire investigators with the guidelines to using a best practise chronological process of fire investigation reporting.*



## 5. Agreed Terms of Reference

1. Before entering the Fire Ground
  - report to the Incident Controller or Principal Rural Fire Officer on all aspects of the fire investigation
  - receive a briefing on the circumstances of the fire and any safety measures that are in place
  - obtain a current Incident Action Plan (IAP)
  - ensure that personal protective clothing is worn at all times while on the fireground
2. Determine the Origin and Cause of the Fire including:
  - taking steps initially to secure the scene
  - identify cause and point of origin
  - thorough documentation and collation of evidence
  - record and photograph burn and char patterns
  - describe the path of fire travel
  - report on the impact of the fire on property and the environment
  - fire behaviour
  - canvass witnesses
  - thoroughly document a description of the general area and point of origin of the fire
  - secure and document factual evidence on the cause or most likely cause of the fire
  - assist the police as appropriate and necessary as
  - I note that a second fire in the area is also being investigated and that there may be a linkage between the 2 fires
3. Advise the Rural Fire Authority when:
  - Specialists or other experts are required i.e. electrical engineer. Please engage them as you see appropriate. Please also assist the Police where necessary/appropriate to establish cause
  - requesting the police if arson is suspected or other criminal activity is suspected
  - offences under the Forest and Rural Fires Act 1977 relating to the lighting of fires are determined
  - a formal interview is required with a person
  - the need to engage with insurance and other investigators as part of the investigation process
  - if you decide that peer reviews are appropriate as part of finalising your report

4. Completion:

- provide a comprehensive written report on all aspects of the investigation as per the National Rural Fire Authority template.
- 

6. Specific Exclusions:

The terms of reference do not include:

- Talking or discussing the fire origin or cause with the news media or anybody not entitled to such information
- The carrying out of formal interviews or taking of formal statements (not to be confused with canvassing witnesses)

7. Authorised By:

Agency Selwyn District  
 Name Douglas Marshall  
 Position PRFO  
 Signature [Signature]  
 Time/Date 1500 14/2/17

Agency Contact: Douglas  
 Contact Ph: [Redacted]

8. Accepted by Wildfire Investigator

Name FRANCO BILU  
 Signature [Signature]  
 Time/Date 14/2/17

Ph: [Redacted]

Released under the Official Information Act 1982



1. Incident Name	2. Rural Fire Authority	Terms of Reference
Early Valley Road (F2245608)	Selwyn District	
3. Location and Summary of the Incident		
<p>The fire start was reported via 111 as a scrub fire at 17744 per the NZFS ICAD system. Known fire start locations area Early Valley Rd and near the Summit Rd Carpark at Marley's Hill</p>		
4. Names & contact details of key personnel		
<p>██████████ Operations Manager Department of Conservation</p>		



## 5. Agreed Terms of Reference

### 1. Before entering the Fire Ground

- report to the Incident Controller or Principal Rural Fire Officer on all aspects of the fire investigation
- receive a briefing on the circumstances of the fire and any safety measures that are in place
- obtain a current Incident Action Plan (IAP)
- ensure that personal protective clothing is worn at all times while on the fireground

The investigator must be accompanied while on the fire ground by fire fighter with unit stds 3285 for safety purposes

### 2. Determine the Origin and Cause of the Fire including:

- taking steps initially to secure the scene
- identify cause and point of origin
- thorough documentation and collation of evidence
- record and photograph burn and char patterns
- describe the path of fire travel
- report on the impact of the fire on property and the environment
- fire behaviour
- canvass witnesses and take statements (except where the Crimes Act is involved)
- thoroughly document a description of the general area and point of origin of the fire
- secure and document factual evidence on the cause or most likely cause of the fire
- assist the police as appropriate and necessary as
- I note that a second fire in the area is also being investigated and that there may be a linkage between the 2 fires – determine whether there is a link between the two fires e.g. ember transfer or arson.

### 3. Advise the Rural Fire Authority when:

- Specialists or other experts are required i.e. electrical engineer. Please engage them as you see appropriate. Please also assist the Police where necessary/appropriate to establish cause
- requesting the police if arson is suspected or other criminal activity is suspected
- offences under the Forest and Rural Fires Act 1977 relating to the lighting of fires are determined
- a formal interview is required with a person
- the need to engage with insurance and other investigators as part of the investigation process
- if you decide that peer reviews are appropriate as part of finalising your report

4. Completion:

- provide a comprehensive written report on all aspects of the investigation as per the National Rural Fire Authority template.
- 

6. Specific Exclusions:

The terms of reference do not include:

- Talking or discussing the fire origin or cause with the news media or anybody not entitled to such information
- Anything that falls under the Crimes Act, such as arson, will handed over to the NZ Police
- -

7. Authorised By:

Agency Department of Conservation

Name [Redacted]

Agency Contact: Andy Thompson

Position Operations Manager

Contact Ph: [Redacted]

Signature [Redacted]

Time/Date 22-2-2017

8. Accepted by Wildfire Investigator

Name GRAEME STUBB

Ph: [Redacted]

Signature G.S. Stubb

Time/Date 22-2-2017

Released under the Official Information Act 1982



**PORT HILLS FIRES CIV – 2017 – 409 – 454**

**Between [REDACTED] and Others  
and  
Orion New Zealand and Others**

**UPDATED REPORT ON THE PORT HILLS FIRES - ELECTRICAL FIRE CAUSES**

**Further to the  
INVESTIGATION REPORT DATED 10 OCTOBER 2017**

**By  
I J ALEXANDER**

**INTRODUCTION**

Both of the above Reports were commissioned by Fire and Emergency New Zealand (FENZ), for me to assist the lead Wildfire Investigator, Mr G Still with electrical aspects of the Fire Cause. A site investigation with Mr Still took place on 3 and 4 May 2017 – some 11 weeks after the fire started.

My full name is Ian James Alexander. I am a retired Consulting Electrical Engineer, and a retired Electrical Fire Cause Investigator. I reside in Feilding.

**Qualifications and Experience.**

I have a Bachelor of Engineering, Electrical, gained from the University of Canterbury in May 1968.

The professional associations of which I am a member are:

Retired Chartered Member of Engineering New Zealand (previously the Institution of Professional Engineers New Zealand). CMEngNZ(Ret).

Life Member of the Institute of Electrical and Electronic Engineers Inc, (USA), (LMIEEE).

Retired Member of the International Association of Arson Investigations Inc (USA) (MIAAI, Ret),  
and a Life Member of the IAAI Chapter 45 – the New Zealand Association of Fire Investigators (NZAFI).

I have appeared as an expert witness in Court on a number of times over the past 22 years. I have read and agree to comply with the Code of Conduct for Expert Witnesses set out in Schedule 4 of the High Court Rules 2016. I confirm that the matters on which I give evidence are within my areas of expertise.

I had 50 years' experience as a practicing electrical engineer prior to my retirement in March 2019. Graduate Training with the NZ Post Office and the NZ Electricity Department was followed by working for Consulting Engineering Firms in New Zealand on a range of Industrial plants and medium to high rise office buildings. Experience in

the United Kingdom included work on the Kingsway Tunnel in Liverpool in 1972, and Northampton for 2 years in the Meat Processing industry on secondment from NZ – 1978-1980).

Fire investigation became an increasingly important part of my work onwards from 1982 when I carried out electrical cause fire investigation work for a number of insurance loss adjusters and insurance companies while employed by Brickell Moss and Partners, Consulting Engineers. Between 1986 and 1995 in my own Practice in Palmerston North, included investigating electrical causes of fires in domestic, commercial, and industrial premises, plus vehicle, and tractor fires.

I became principal of my own company, I J Alexander Limited in 1998 incorporated in Richmond, Nelson. I relocated the Practice to Feilding in 2013. During this time I continued to investigate electrical aspects of the same range of fires as previously in Palmerston North, as well as heavy earthmoving equipment.

From the time of moving to Nelson work for the National Rural Fire Authority (NRFA), and it's successor Fire and Emergency New Zealand (FENZ), was a significant source of work.

## DISCUSSION ON POSSIBLE ELECTRICAL CAUSES OF THE FIRE

### A clash of the Yellow (Phase B) and Blue (Phase C) conductors

During the preparation of my Report on Electrical aspects of the Fire Investigation dated 10 October 2017 I discounted a clash of the Yellow (Phase B) and Blue (Phase C) conductors causing the overcurrent event because:-

- The wind speed shown around the time of the Y phase Fuse operating, was low – as shown below in the Weather Station Records provided by Mr G Still from calibrated Weather Stations in the area surrounding Early Valley. Wind speeds vary from 4.3 km/hour (kmh) to 23 kph. These wind speeds would not normally cause the conductors to clash for a properly tensioned 11kV line which I considered the Early Valley to be.

Time	Station	Temp	RH	Wind S	Wind D
5:30 PM	Burkes Bush	21.4 °C	37%	4.3 kph	SW
5:31 PM	Lincoln. ICANTERB322	23.8 °C	25%	14.8 kph	NW
5:31 PM	Lincoln. ILINCOLN50	24.7 °C	35%	8 kph	NNW
5:31 PM	TaiTapu. ICANTERB317	23.7 °C	33%	14.3 kph	NNW
5:32 PM	Lincoln. ICANTERB24	24.9 °C	25%	18.3 kph	NW
5:33 PM	Lincoln. ICANTERB159	23.7 °C	32%	16.3 kph	N
5:35 PM	Burkes Bush	21.4 °C	36%	16.6 kph	SSW
5:36 PM	Lincoln. ICANTERB322	23.9 °C	25%	23 kph	N
5:36 PM	TaiTapu. ICANTERB317	23.7 °C	33%	16.3 kph	N
5:37 PM	Lincoln. ICANTERB24	24.8 °C	24%	15.8 kph	NNW
5:38 PM	Lincoln. ICANTERB159	23.7 °C	33%	7.9 kph	N
5:40 PM	Burkes Bush	21.4 °C	37%	18.3 kph	NW
	<b>Average over all stations over 10 minutes</b>	<b>24</b>	<b>31</b>	<b>15</b>	

- I note that Mr Mitton, at para 141 states that Orion advised him that their 11kV Rural power lines were designed to withstand 160km/hr winds. Having lived in North Canterbury and Christchurch for about 24 years, and experienced strong gusty North West winds on many occasions, I cannot recall damage or faults being a problem on the rural 11kV networks over that time unless the winds were especially strong.
- No Fire Investigator during the days following the fire found any evidence of the B and C phases having clashed.
- No Fire Investigator during the days immediately following the fire found any evidence of tree debris or tree branches that might have caused a line clash through falling on the Conductors and causing them clash under either the influence of gravity, or the influence of the wind at the time of the fire ignition.
- I cannot totally rule out a physical line clash between the Y and B phase conductors due to unforeseen circumstances (eg vehicular accidents). Unless new evidence becomes available, in my opinion I do not consider that there are any circumstances to be more certain of a clash of the Yellow and Blue conductors occurring.

### **Operation of the yellow phase 11Kv fuse**

In preparing my 2017 Report, I did not consider that there was sufficiently strong evidence to be certain that the Phase B fuse operation caused the fire ignition. There were two factors involved in this view:-

- Mr Still's time of fire ignition at the point of origin of the fire was some minutes earlier than the time of operation of the Yellow Phase fuse, and,
- The fuse operation at the time of the overcurrent event was not seen until well after the time of the overcurrent event, and the fuse operated at a lower current versus time parameter than a new fuse would be expected to operate. It was noted that the fuse case was not completely ejected from the carrier in the first photo taken after the fire had started (Photo P2130031, timed at 19:15, 13/02/2017)

Recent information to hand is that Mr Still's work has the time of the fire ignition time some minutes before the time that the fuse operated.

Under the circumstances, my modified conclusion is that the yellow fuse operation may be able to cause ignition of a fire at this site, but not with the time parameters that are Mr Still's conclusion,

### **Overcurrent event caused by a fire under the power line**

In my Report dated 10 October 2017 I considered this possibility to be the likely cause of the fire.

I had investigated a fire that started on the evening of 13 April 2001 under the HVDC 500kV Transmission line at Oyster Bay, Port Underwood. I was present the morning after the fire started at the hand over briefing from the night fire crew to the day fire crew. Power was tuned off until midnight because of arcing from the conductors to ground endangering firefighters as the fire spread uphill. Eye witnesses were interviewed confirming this on the day, and sworn statements taken from them by a Factual investigator a few days later. During the inspection of Fire Exhibits held by Orion in a container on the Papanui substation site in June 2017 it was noted that there were burnt Sections of Pole AX728 above ground, which also showed up on Photos taken on site before Pole AX728 was replaced.

The other possible cause of the overcurrent event was considered to be due to a fire under the Early Valley Power line, with the flames and ionised air enabling a 'flashover' between the Yellow Phase and the Blue Phase conductors. In my Report of 10 October 2017 it was not known how that fire could be caused, but being deliberately lit, or electrically initiated was the possibilities considered.

### **Faulty Cable Clamp, Yellow Phase, Pole AX728**

On 19 May 2020, I received photos and details of the headworks of Pole AX728 taken before the pole was replaced. The metadata for the photos shows 17/2/2016 as the day/month/year, and 13:50 as one of the photo times – all of which is not correct. I assumed that the photos were taken a day or two after the fire – this was subsequently confirmed in an email from Lane Neave.

The termination of aluminium cable conductors requires careful appraisal, and proven techniques to be successful in service over a long time. Most of my experience has been in high current applications including the installation of the 220kV Transmission line overhead conductors (the second circuit of the 220kV line from Stratford to New Plymouth Substations during Graduate training in 1969 / 1970 in the NZ Electricity Department). Also, included are the Specification and Contract Supervision for industrial plant mains power (400 Volt) systems up to 1600 Amps per phase where machine controlled hydraulic compression of cable termination lugs onto the cables were used.

Industrial applications using bolted clamping techniques were a source of failures before the hydraulic compression techniques became the norm.

I recognise that the position of the Early Valley 11 kV overhead conductors and headworks such as the Drop-out fuses makes it a very awkward proposition to use anything other than bolted clamps, as used by Orion, to terminate the overhead conductor to the Drop-out fuse assemblies.

In my fire investigation work over the years I have encountered fires and electrical failures caused by Aluminium cable joint and termination failures on a number of occasions. In most cases the joints failed with little obvious warning – even sometimes where precautionary regular infra-red mapping was used to try and get an early warning of joint problems. The timing of those failures was unpredictable.

In the case of the Yellow Phase cable clamp used to secure the Aluminium 'Flounder' cable on the consumer side of the Drop-out fuse (Refer Photo OR14.0.00131) the joint, in my opinion, must have been compromised over a period of time, possibly due to weathering or atmospheric pollution, prior to 13 February 2017. The Orion Photo OR14.0.00131 (below) suggests that this is the case.

OR14.0.00131



Although time-lines are unknown, the clamp condition must have been less than ideal for quite some time before the overcurrent event on 13 February 2017. I say this because if the clamp had conducted normal load currents (and the overcurrent), equally through all the Aluminium cores of the Flounder overhead conductor then three of the cores would not have arced and severed as shown in the Photograph .

In my view, it may be a plausible proposition to suggest that the clamp joint compromise occurred due to only one or a few of the 'Flounder' cable cores that were carrying the normal downstream load current through a high resistance path in the clamp some time before the Yellow phase fuse operated due to the overcurrent event (this scenario requires the other cores to not be conducting any significant current due to not making proper contact with the clamp). It should be noted that in a bolted clamp, such as the ones used on the Early Valley power Line, the clamp is required to exert a 'crush' force on the conductor cores to create a bare (bright) aluminium interface with the gun metal of the clamp, not an interface with the normal (dull) Aluminium oxide coating on the surface of the conductor (which has insulation properties).

At worst, the clamp joint may have overheated slowly until a point where the one or more cores were being heated at an exponential rate until Aluminium droplets from a core or cores of the 'Flounder' cable formed and were emitted, and fell to the ground where 'duff' or similar material were ignited to cause a fire.

The voltage drop across the impaired joint may not have registered on the 400Volt/ 230Volt Smart meters at the Early Valley Consumers point of supply. As an example, the normal phase current in the power line may have been only a few amperes (eg between 1 and 3 amperes), and across a joint resistance of say 200 ohms at a current of 1.5 amperes the voltage drop at the Consumers point of supply would be close to the allowable fluctuations in the supply voltage of plus or minus 2.5% - and may not be registered as a disturbance by the Smart meter(s).

The heat input to the Clamp and Cable joint would be 300Watts under this condition which may be sufficient to have initiated a failure along the lines considered possible.

Under this scenario maybe this fire (if it happened) caused a 'flashover' of the Yellow and Blue phase line conductors due to the flames and/or the ionised fire gases generated by the fire.

Had the foregoing occurred it could, in my opinion, explain the arcing that occurred between one or more of the 'Flounder' cores and the clamp gun metal casing during the overcurrent event because the arcing to the clamp's gun metal case offered an easier current path than the failed clamp joint.

I cannot foresee a scenario where the 'Flounder' cable and the cable clamp were in a good condition, and the end resulting cable damage occurred solely due to the overcurrent event because the 'Flounder' Cable should have coped with the overcurrent event without damage..

Such an event description was not observed by any identified witness, and must therefore remain a possible theory as to the failure. However, the timing of the fire ignition by Messrs Still and Cowan, and the position of the scrub under the power line relative to the Pole AX728 are worthy of consideration.

As noted previously, there were light winds in the area at the time of the overcurrent event, and the wind is not considered to have influenced the suggested mode of clamp failure and damage.

This newer information has led me to the view that failure of this cable clamp has raised the possibility of it being the cause of a fire, in turn which the fire could have caused the overcurrent event that led to the operation of the Yellow phase fuse.

My view is that this is a likely cause of the fire, and the operation of the 11kV fuse due to the overcurrent event.

Appendix 8. (original 2017) I J Alexander Electrical Engineer report.

	P O Box 138, FEILDING 4740	<b>I J ALEXANDER LTD</b> Consulting Electrical Engineer	Tel [REDACTED] Mobile [REDACTED] email: [REDACTED]@xtra.co.nz
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Our Ref: 2023006 FENZ Fire Rep Final

10 October 2017

**PORT HILLS FIRE, CHRISTCHURCH 13 FEBRUARY 2017**

**ELECTRICAL FIRE CAUSE ENQUIRY REPORT**

for

**FIRE AND EMERGENCY NEW ZEALAND**

**1. INTRODUCTION**

- 1.1 Mr Tim Mitchell, Manager Rural Fire, National Rural Fire Authority, requested my assistance to provide Electrical input into the fire origin and cause work being undertaken on this fire by Mr Graeme Still of the then Otago Rural Fire Authority.
- 1.2 Since this commission commenced. The NZ Fire Service has re-organised, and the report is directed to Fire Emergency New Zealand (FENZ) which incorporates the previous National Rural Fire Authority.
- 1.3 The fire in the Early Valley had commenced in the late afternoon of Monday, 13 February 2017.
- 1.4 This Report is intended to be appended to Mr Still's Origin and Cause Report on this Fire.
- 1.5 This report has been prepared for the exclusive use of Fire Emergency New Zealand, and its specifically authorised agents.

This report has been prepared solely for the benefit of you as our client with respect to the particular brief given to us, and data or opinions contained in it may not be used in other contexts or for any other purpose without our prior review and agreement.

**2. BRIEFING ON THE EARLY VALLEY FIRE EVENT**

- 2.1 Preliminary assistance to Mr Still commenced on 4 April with a briefing on information about Orion's 11 kV and 400 V system in Early Valley that Mr Still held.
- 2.2 A meeting in Christchurch with Mr Still was arranged from Tuesday evening 2 May to Thursday 4 May to view the fire scene, and to go through file information held by Mr Still.
- 2.3 On Tuesday evening 2 May a meeting was held with Messrs [REDACTED] and [REDACTED] (Corporate Risks Ltd) both acting, it is understood, for IAG New Zealand Ltd. This was mainly concerned with fire origin information and the fire behaviour during the respective Wildfire Investigators scene examination. The exhibits held by the NZ Police and by Orion were unavailable to be inspected. This was of concern to both parties, as they were seen to be vital to fire cause enquiries.

2.4 The next morning we went through all the information held by Mr Still to determine where and what I should concentrate on to complement Mr Still's cause investigation work.

## 2.5 NZ Police Exhibits

2.5.1 We then contacted Detective Sergeant Craig Farrant of the NZ Police, and arranged to inspect the electrical Exhibit items he held re the Early Valley fire.

The following items were inspected, with the phase designations used by the Police:-

2.5.2 Blue phase (11kV conductor nearest the road as advised to Mr Farrant).

Thought to be Grey fuse holder

Identification:- FIS 2017 – 008 Ex4 16/2/17

Thought to be the 50 Amp fuse at the time of the fire, did not rupture.

Exhibit  
FIS 2017 – 008  
Ex 4 16/2/17

Photo Ref  
0397  
(NZ Police)



2.5.3 'Yellow phase' (11 kV Centre Conductor). **Correct name is 'White Phase'.**

Thought to be Brown fuse holder

Identification:- FIS 2017 – 008 Ex5 16/2/17

Thought to be a 25 Amp fuse to have ruptured.

NB the fuse shown was not the one that was fitted at time of fire.

Exhibit  
FIS 2017 – 008  
Ex 5 16/2/17

Fuse shown  
was not the fuse  
fitted at time of  
fire.

Photo Ref  
DCS 0129



2.5.4 Red phase (11 kV conductor closest to vegetation).

Thought to be Brown fuse holder

Identification:- FIS 2017 – 008 Ex 6 16/2/17

Said to have had a 25 Amp fuse – fuse did not rupture;

Exhibit  
FIS 2017 – 008  
Ex 6 16/2/17

(Note ruptured  
fuse tube)

Photo Ref  
0404  
(NZ Police)



2.5.5 These exhibits were photographed, and the NZ Police photo files were also given to me.

2.5.6 Refer also to Clause 6.2. for discussion of fuse sizes and disposition over the three phases.

2.6 Mr Farrant also provided information on the [REDACTED] property from the Police Records. The 111 call timed at 5:43pm from the mobile Screenshot corresponded with Spark time of 5:41:30. This screen shot was later found to be a screen shot of [REDACTED] phone at [REDACTED] Old Tai Tapu Road (see later data). This was thought to be relevant to the [REDACTED] broadband router data obtained by [REDACTED], an investigator retained by Orion. The last active [REDACTED] broadband session was timed at 17:45:57, with the router said to be powered by the White phase.

## 2.7 Site Inspection

2.7.1 Mr Still then showed me the fire scene where he had determined the origin of the fire to be, adjacent to Pole HA2/117 – BR509 later found to be originally pole AX728. This pole was where three Drop Out Fuses controlled the 11 kV power line further up the valley, and was where the centre (White) fuse had dropped out prior to, or during the fire event.

2.7.2 In the span before pole AX728, a spur power line went up the hill from Pole HA2/27 – DE204 later found to be Pole AX814. where three Drop Out Fuses fed the spur power line.

2.7.3 The power line spans between power poles were tensioned ('sagged') so that there was no possibility of the power lines clashing and arcing or sparking during windy conditions. This included the spur line from Pole AX814.

In fact, the main 11 kV power line right up the Early Valley was well sagged to prevent conductors clashing under normal stormy weather conditions.

2.7.4 Mr Still indicated the area of origin of the fire he had determined was adjacent to, and uphill from Pole AX728.

2.8 Mr Still advised me that a Contractor working for Orion had thrown the three Drop Out Fuses assemblies removed from Pole AX928 into the back of his truck. When Mr Still requested to view them, the Contractor could not find them.



Part Photo DSC\_3367

Shows Fuse Carriers tied to  
Pole AX728, dated  
16.02.17

This begs the question as to whether or not the fuses and fuse carriers held by the NZ Police were the Fuses and fuse carriers recovered from Pole AX728. Note that all three fuse carriers have tails of the fuses showing, whereas the White phase fuse tail was shown as ejected in Photo P2130031 (Clause 5.3.3).

- 2.9 At this juncture, and with Mr Still having obtained information that Orion had experienced a disturbance on the Early Valley 11 kV power line at 17:49:57 on Monday 13 February 2017, we investigated the power supply to the [REDACTED] Property at [REDACTED] Early Valley Road.

We found that the [REDACTED] property had a two phase 11 kV power supply to a transformer near the house.

The power supply, from Pole DC979 was by means of two Drop Out Fuses, on the Red and White phases according to the NZ Police Information, and as confirmed by myself having traced the line disposition from Pole AX728.

It was understood at this time that the fuse holders can handle a maximum fuse size of 25 Amps. At the time of the inspection the size of fuse was unknown, and still is.

It was noted that the power pole did not have an opossum guard fitted to it.



Pole DC979

White phase Fuse, and

Red phase Fuse to [REDACTED] Transformer

Photo 0153

### 3. ELECTRICAL INFORMATION REQUESTED

- 3.1 Information was requested from Orion via [REDACTED] of Lane Neave Lawyers about the characteristics and materials on the Early Valley 11kV power system.
- 3.2 A request was made to the Spark Business Hub 251 Broadway Avenue, Palmerston North regarding Broadband Router Operations, as there was some debate as to the significance of the Router losing contact with the Xtra Network sometime after the first overcurrent event on the Early Valley 1kV power system. The reply was that power needs to be supplied for broadband routers to work, i.e. either mains power, or power via a UPS (Uninterruptible Power Supply). Routers cannot be powered via the broadband connection. The same applies to Ultra Fast Broadband (UFB) where it is installed.
- [REDACTED] when telephoned on 3 May 2017 could not recall the router being on a UPS, and said he believed the power to the house was on the White phase only. He did not know what the message timed at 5:43pm on 13 February was i.e. couldn't say if it was a telephone call, a text, or an email on someone's smartphone. This was later found to be a screen shot on [REDACTED] Phone at [REDACTED] Old Tai Tapu Road.

### 4. RESPONSE TO INFORMATION REQUESTED

- 4.1 A response was obtained on 12 June 2017 from Lane Neave Lawyers, and is contained in Annex 1.

- 4.2 The response was required before a meeting with Messrs Ken Legat (Origin & Cause Investigator) and [REDACTED] [REDACTED] (Electrical Engineer) could be held. Messrs Legat and [REDACTED] were undertaking an investigation into the fire cause under instruction from Lane Neave Lawyers acting for Orion.
- 4.3 A meeting with Messrs Legat and [REDACTED] was held in the offices of Lane Neave Lawyers on Thursday 15 June with Messrs Still and Alexander.

Following the Meeting, an inspection of Exhibits held by Orion at their Papanui Substation was undertaken – present were Messrs Legat, Still and Alexander.

- 4.4 A brief record of information obtained is contained in Annex 2.
- 4.5 The information gathered enabled a more wide ranging investigation into electrical issues to be undertaken.

## 5. THE EARLY VALLEY POWER SYSTEM

- 5.1 Following the receipt of information from Orion via Lane Neave Lawyers, and a meeting with Messrs Legat and [REDACTED] some essential parameters of the Orion power system in Early Valley were derived.
- 5.2 There is a backbone 3 phase 11kV power line running up the valley alongside the road. From the Valley entrance the 11 kV power line runs on the right hand side of the road, looking up the valley, with the overhead conductors in the following configuration.

Blue Phase      White Phase      Red Phase



Position of Phase Conductors on Pole AX728 ( Pole AX728 on right hand side of road viewed looking up the Valley).

Right hand side of Road

Photo G Still  
17ch0873-0397

- 5.2.1 Further up the Valley at Pole AX390 the power line crosses to the left hand side of the road outside the entrance to [REDACTED] Early Valley Road ([REDACTED] property), but the phase disposition on the pole remains the same – refer to Photo 153. i.e. looking up the Valley at the phase distribution Left to Right remains Blue – White – Red.

Pole DC979

Power Line to  
 [REDACTED]  
 transformer

White phase

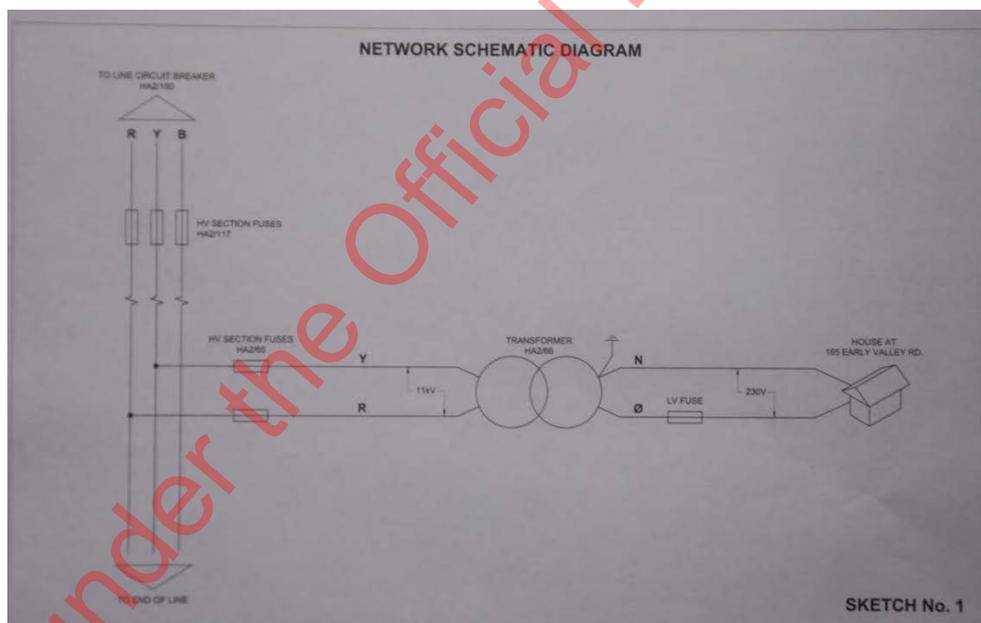
Red phase

Photo DSC 153



- 5.2.2 The two fuses supplying power to the transformer at the [REDACTED] House at [REDACTED] Early Valley Road are tapped onto the White and Red Phases (the White phase is also called by its old name, 'Yellow' phase).

The two Phase 11 kV line, fed from fuses at Pole DC979, ends at Pole AX389 with a 15kVA transformer supplying single phase 240 Volt power to the [REDACTED] House. Refer to the power diagram, and Photo DCS153 showing part of the Orion Pole DC979, and the [REDACTED] 11 kV overhead power line.



[REDACTED] - 15 kVA Transformer power Diagram (Orion- Refer Annex 1).

An important feature of this power supply system is that if either the Red or White phase fuses fail at Pole DC977, then the 240 Volt single phase power supply is affected, with a lower voltage than the regulation 240 Volts. The actual voltage available depends upon the power loading on the rest of the transformers on the Early Valley 11kV system, and the power loading on the [REDACTED] Transformer. Orion have the information required for modelling this power system, but the information is not yet available.

- 5.2.3 At Pole AX791 there is a 3 phase 11 kV / 400V pole mounted transformer – shown on Photos DSC\_0162. This is two poles back down the valley from Pole DC979.

View of Pole AX791  
And 3 phase 11kV  
transformer, the closest  
one to Pole DC797  
(the [redacted] 11kV  
supply point)



Photo DSC 162

This transformer supplies 400 / 230 Volt power up and down the Valley for some distance, and inland to pole AX394. Refer to Part CCF\_000012 (scan).



[redacted]  
Transformer  
Pole

Pole AX791 with  
11kV / 400 Volt  
transformer

Pole DC979 with  
Fuses and power  
Line to [redacted]

Part CCF\_000012

5.3 Refer to Part CCF\_000012 scan below, showing Pole AX728, adjacent Poles, and the 11kV power line up the Ridge.

5.3.1 Pole DC964 (2 poles short of Pole AX728) has an air break switch so that the 11 kV power line up the Valley can be isolated.

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- 5.3.2 Pole AX814 has an 11 kV spur line heading up hill on the Ridge southwards. This line is fed by three 11KV section fuses at Pole AX814, rated at 65 Amps.

Pole AX728

Pole AX814

Pole DC964

Part  
CCF\_000012



- 5.3.3 On Pole AX728 the centre (White phase) pole fuse, rated at 25 Amps, had ruptured on the afternoon / evening of Monday 13 February 2017. Photo P2130031 timed at 19:15 hours on Monday 13 February shows that the white phase fuse had operated earlier in the day.



Fuse tube (orange)  
lodged in fuse carrier  
and Earth Clamp

View of the White  
Phase Drop Out Fuse  
holder in the operated  
position.

See appendages.

Part  
Photo P2130031

## 6. ELECTRICAL INFORMATION AND SEQUENCE OF EVENTS

### 6.1 Timelines

- 6.1.1 All timelines are based, it is understood, on a common GPS Time Tag for Orion's and Spark's information.
- 6.1.2 The **Electrical** timelines on Monday 13<sup>th</sup> February re the Early Valley 11 kV power line are:-

- 17:39:56. Blue–White Phase overcurrent of 650 Amps of 110 mSec duration
- 17:45:47 [REDACTED] Broadband Router lost contact with Spark internet system ([REDACTED] Early Valley Road).
- 17:47:14 Three phase overcurrents of approximately 850 Amps of 260 mSec duration.

- 6.1.3 Mr Still has timelines for 111 calls and for various photos of the fire taken by others on the day of the fire.
- 6.1.4 The earliest photo of the pole AX728 (nearest to the area of origin of the fire as determined by Mr G Still) after the start of the fire I have seen was taken at 19:15 hours on Monday 13 February (the photo metadata). This photo, P2130031 (Refer to Clause 5.3.3) shows the White Phase fuse has ruptured. When it ruptured is not definitely known.

## 6.2 Handling of the Exhibits

- 6.2.1 The NZ Police (Detective Sergeant Craig Farrant) allowed Mr Still and myself to view the 11 kV fuse and fuse holder Exhibits they were holding from Pole AX728.
- 6.2.2 Orion were not able to confirm the fuse ratings from their records, nor the disposition of the 2 x 25 Amp and 1 x 50 Amp fuses at Pole AX728. Neither could Orion confirm that the fuses and fuse carriers that were presented as being retrieved from Pole AX728 were in fact definitely from Pole AX728. The fuses and fuse carriers had passed through a number of Orion's Contactor hands without being positively identified at each step before being handed over to Mr Legat.
- 6.2.3 The fuse and fuse holder designations accepted by the NZ Police are set out in Clause 2.5, and are as labelled by Fire Investigation Services Ltd (Mr Ken Legat), and transferred to the NZ Police at their request.
- 6.2.4 The handling of these Exhibits was not up to the required standards, as to how they were handled by Orion's staff or Orion's Contractors before being sorted and passed into Mr Legat's care
- 6.2.5 Under the circumstances the allocation of fuses to fuse holders needs to be treated with extreme caution, as there are no reliable records of what exactly was initially recovered, and whether or not fuses were swapped between fuse holders along the way.
- 6.2.6 Mr Legat also advised that Orion's fault records showed two years before the fire that the Red phase fuse at pole AX728 had ruptured due to a lightning strike (said to be a 25 Amp fuse) and that a faultman had placed a new fuse in the fuseholder. Orion consider that this was most likely to be the 50 Amp fuse link – the faultman did not record what fuse rating he had installed.
- 6.2.7 Further to the above, the exhibits passed to Mr Legat, labelled by him, and handed to the NZ Police do not appear to correspond with the Drop Out fuse assemblies on Pole AX728 (Photo P2130031). Refer to the part Photo P2130031, Part Photo DSC\_3367, and the NZ Police photo 17ch0873-0404.



Part P2130031 showing the ruptured fuse tube captured in the White phase fuse carrier and the earth cable clamp. Note appendages on the fuse carrier.



Part Photo DSC\_3367 showing fuse carriers tied to Pole AX728. These do not correspond to those on the Pole at left, as they all have fuse tails in the holders (indicating intact fuses).



NZ Police photo 17ch0873-0404 showing what they believe to be the red phase fuse carrier and fuse. The fuse looks like a ruptured White phase fuse shown on the pole.

### 6.3 The First Overcurrent Event at 17:39:56

- 6.3.1 The first possible cause of this event considered was that of the Blue and White overhead 11 kV conductors clashing under the action of the prevailing wind. A second possible cause of this event considered was that of the Blue and White overhead 11 kV conductors clashing due to (tree) foliage fouling these two conductors. Tree foliage fouling the overhead line it does appear improbable because a substantial force would be needed to be applied by the tree foliage onto the conductors to have caused the conductors to clash. Mr Still indicated that he had not found evidence of such foliage alongside and under the 11 kV overhead line heading up the valley from Pole AX728.

NB foliage falling on the line is not considered capable of causing the overcurrent event due to conduction alone *through the foliage*.

In both of these scenarios the event may have occurred further up the Valley from Pole AX728, but no evidence of this was found.

The sagging / tensioning of the overhead line conductors was good, with generally a maximum span of 50 metres. Either side of Pole AX728 the spans were 21.2 metres back to Pole AX814 and 48.9 metres to Pole AX727. The flat formation of the 3 phase overhead lines means that phase – phase conductor contact is highly unlikely.

- 6.3.2 A third possible cause of this event is that a fire was lit earlier, and the event was a result of flames and / or ionised gases from the fire allowing an arc to develop between the Blue and White 11 kV overhead line conductors, probably in the span between poles AX 728 and AX727, as this is near to the origin of the fire determined by Mr Graeme Still.
- 6.3.3 If any of these three events occurred up Valley from Pole AX728, and they caused the recorded overcurrent, then the White Phase fuse could have ruptured.
- 6.3.4 It is noted that the first event, the Blue to White overcurrent event is below the current expected of a phase-to-phase conductor clash. From research papers a current upwards of 1000 Amps would be expected from a phase-to-phase conductor clash.

### 6.4 When did the White phase 11 kV fuse rupture, and why?

- 6.4.1 The time that the fuse ruptured is not precisely known as it does not show on the Orion SCADA Monitoring System.

- 6.4.2 The initial check of the AB Chance Type T 11 kV fuse link characteristics (refer to Annex 5) indicates that for a fuse in a good condition at an ambient temperature of 25°C the initial overcurrent event will not cause a 25 Amp fuse to rupture.

However, it is possible that earlier overcurrent events had occurred, possibly occasionally over several years. These could have lowered the rupture time / current ratio (because of previous pre-arcing times part melting of the fuse link – ie 'fuse ageing'). In this condition, a lesser pre-arcing current / time ratio could allow the first overcurrent event to rupture the White fuse.

A new White phase fuse would not be expected to rupture during the initial overcurrent event, but would be subject to some degree of pre-arcing, with part melting of the Tin fuse element becoming obvious, as shown in NZ Police photo 17ch0873-0409 – refer Clause 7.4.

Refer to Annex 5 for the fuse Time / Current characteristics.

The White Phase fuse rating was unknown by Orion, and the ruptured fuse was not captured with the fuse holder when the fuse holder was retrieved from the cross-arm - refer to Photo P2130031 showing the fuse tube partly held in the fuse carrier, and trapped in the earth clamp below the Cut-Out Assembly. The NZ Police believe that a 25 Amp fuse that they recovered was from the White phase fuse holder, but it does not appear to match the fuse tube shown in Photo P2130031.

- 6.4.3 There is no definite proof available to be certain as to when the White phase fuse ruptured, but the most logical time is the time of the first event on the Early Valley 11 kV system at 17:39:56 IF the first event occurred up the Valley from Pole AX728.
- 6.4.4 As mentioned in Clause 6.4.3, no conclusive evidence was found to prove **where** the first overcurrent event occurred on the Early Valley 11kV power system.

If the White phase fuse ruptured as a result of the first overcurrent event, then all that can be stated is that the event must have occurred up valley from Pole AX728. Where that position is remains undetermined.

Conversely, if the White phase fuse **did not** rupture as a result of the first overcurrent event, then all that can be stated is that the event must have occurred on the 11kV system towards the Valley entrance from Pole AX728, which includes the 11kV power line up the ridge from Pole AX814.

- 6.4.5 The only fuse / fuse holder evidence that can be relied upon, because of the manner in which the Exhibits were handled, is the evidence shown in Photo P2130031.

## 6.5 The Second Overcurrent Event at 17:47:14

- 6.5.1 The second overcurrent event was a three phase event (860 Amps of 260 mSec duration).

If it had occurred on the Early Valley 11 kV power Line further up the Valley from Pole AX728 both 25 Amp fuses would have ruptured. Only the White phase fuse ruptured. This assumes that there were two 25 amp fuses at Pole AX728 prior to the fire.

Because only one 25 Amp fuse was found ruptured on Pole AX728 it is most likely that this second overcurrent event occurred on the 11 kV system **before** Pole AX728 (which includes the 11kV power line up the ridge from Pole AX814).

- 6.5.2 The most likely area where this second overcurrent event occurred is on the spur line up the ridge from Pole AX814. The fuses for this line are 65 Amp Chance Type T 11 kV fuse links. These fuses would not rupture if they passed the overcurrent for the second event.
- 6.5.3 It is understood that it is highly unlikely for this second overcurrent event to have occurred in the spans towards the Valley entrance between Poles AX728 and DC964 because of the very limited burned vegetation between these power poles. A wind induced simultaneous contact between all three phase conductors is considered impossible.
- The three phase overcurrent event is considered to be due to a fire burning under the 11 kV Spur fire from Pole AX814 up the ridge towards Pole AX810, and causing a flash-over simultaneously

between all three phase conductors. Refer to the overhead line route shown in scan Part CCF\_000012 in Clause 5.3.2

The span length, conductor spacing, and line sagging are such that a simultaneous three phase line conductor clash is highly unlikely, and again the current is lower than would be expected from a direct phase conductor to phase conductor clash. Refer to Annex 4 and the paper by V. W. Smith and V. J. Gosbell and their live clash currents for Figure 5 and Figure 7 – in excess of 1800 Amps at a 10 km distance.

## 7 DISCUSSION

- 7.1 The conjecture as to when the White phase fuse at Pole AX728 ruptured is such that the exact time cannot be conclusively proven. If the fuse ruptured at 17:39:56 (the first overcurrent event) then the cause of the overcurrent event needs to also be established.

As stated in para 6.3.4 it is unlikely that the overcurrent event was caused by a Blue phase to White phase conductor clash up valley from Pole AX728. A more probable scenario is that the event arose from a fire started near to, or under those conductors.

- 7.2 The White Phase fuse was most likely rated at 25 Amps, but even that cannot be conclusively proven.
- 7.3 The roadside 11 kV power lines along Early Valley were well maintained and clear of foliage as required by 'The Electricity (Hazard from Trees) Regulations 2003.'

A clash of conductors to produce either of the two overcurrent events is considered to be highly unlikely, but cannot be totally ruled out. It is noted that Mr Still had not found any evidence in his scene search for tree debris that could have caused a clash of the Blue and White phase conductors.

- 7.4 The 11 kV fuse construction is shown in Annex 5 – Spent Fuse Links. The pure tin fuse element melts at 231.9°C, and this is the initial temperature of the molten tin if it were ejected from the fuse tube after the fuse had ruptured. Note that the tin fuse element melts first, then the thin stainless steel wire has to melt before the fuse carrier drops down, completing the isolation of the circuit that the fuse controlled. AB Chance in their description of the fuse and carrier operation point out that at the first overcurrent event level (656 Amps) the auxiliary tube will burst but remain intact. This appears to be shown in the police photo 17ch0873-0406.



Part Photo  
17ch0873-0406  
(NZ Police)

Shows a ruptured  
fuse tube.

The amount of molten tin that could be ejected when the fuse ruptures is minimal due to the small aperture in the fuse tube. This assumes that this fuse is the one shown in Clause 5.3.3, Photo P2130031.

Mr Still will comment upon the likelihood of the fuses molten tin particles being able to initiate this fire.

Photo 17ch0873-0409 shows the other 25 Amp fuse link recovered (presumably from the Blue Phase fuse holder) with partial melting of the tin element. The thin stainless steel strain wire is also visible.



Photo  
17ch0873-0409  
(NZ Police)

Shows partially melted tin element (Blue Phase fuse?).

Note also the thin stainless steel strain wire

The amount of molten tin that could be ejected when the fuse ruptures is minimal.

- 7.5 The timeline for the [REDACTED] Router losing contact with the Spark internet system was 17:45:57. This loss of contact assumes some importance if it was the time that the White phase 11kV fuse at Pole AX728 ruptured.

Lane Neave Lawyers on behalf of Orion were requested to provide modelling information of the likely voltage at the [REDACTED] Property after the White fuse ruptured at Pole AX728. The reason being that there would be a lower White phase voltage (backfed from other transformers in the Early Valley), which might provide an adequate output voltage to keep the [REDACTED] Router operating. If the output voltage was inadequate under this backfeed condition, then the time of the White Fuse rupture could be more accurately established.

- 7.6 Similarly, a request was made, to Lane Neave Lawyers on behalf of Orion, for the results of the data recovered from the Smart Power meters in the Early Valley to be available to again try and confirm the timing of the rupture of the White Phase fuse at Pole AX728 and subsequent activity on the Early Valley Power system.
- 7.7 All the physical evidence found indicates that the Early Valley 11kV and 400 Volt overhead electricity Network complied with relevant New Zealand Standards, and Industry best practices, for a rural network supplying consumers in a low density rural environment. The Network also appeared to be well maintained.

Refer also to Annex 6 for an excerpt from the Orion Asset Management Plan, which details Orion's Network Standards and Specifications for the Design, Construction, Maintenance, and Equipment for their Overhead 11 kV distribution lines.

## 8 CONCLUSIONS

- 8.1 The Origin of the Fire was determined by Mr Graeme Still.
- 8.2 Enquires into the cause of the fire were hampered by uncertainty as to the timing of the White Fuse rupture at Pole AX728, and the handling of the Electrical Exhibits at Pole AX728 by Orion Contractors and / or Orion Staff subsequent to the fire.
- 8.3 A possible electrical cause of this fire identified in this Report is the ejection of molten pure tin metal from the fuse as the White Phase 11kV fuse at Pole AX728 ruptured. However, as shown in Photo P2130031 (Clause 6.2.7), the fuse tube is captured partly in White phase fuse carrier and caught in the earth cable clamp, and so the ejection of molten pure tin fuse element is restricted. This mode of fire cause relies upon one of the two possible methods of obtaining a clash between the White and Blue phase conductors of the 11kV overhead line (ie conductor clashing due to wind action, or conductor clashing due to debris hitting the conductors). Both of these modes of conductor clashing are considered to be extremely unlikely, but cannot be absolutely ruled out.
- 8.4 The other possible cause of the first overcurrent event is considered to be due to flames and / or ionised gases from a fire lit earlier allowing an arc to develop between the Blue and White 11 kV overhead line conductors, probably in the span between poles AX 728 and AX727, because this is near to the origin of the fire determined by Mr Graeme Still. This cause of the overcurrent event does not require the ejection of molten pure tin from the fuse to cause the fire ignition. Both the cause of such a fire, and it's timing relative to the first overcurrent event, is not within my area of expertise, but will, I understand be commented upon by Mr G Still in his Report.
- 8.5 It is considered that Orion have constructed and maintained the Early Valley 11kV network to the requirement of relevant New Zealand Standards, and to accepted Industry Best Practices, including their Orion Engineering Standards.
- 8.5 No Electrical cause of this fire was determined. The first 11kV overhead line disturbance at 17:39:56 is considered to be caused by a fire lit prior to this time, which caused a flashover between the Blue and White conductors up valley from Pole AX728.

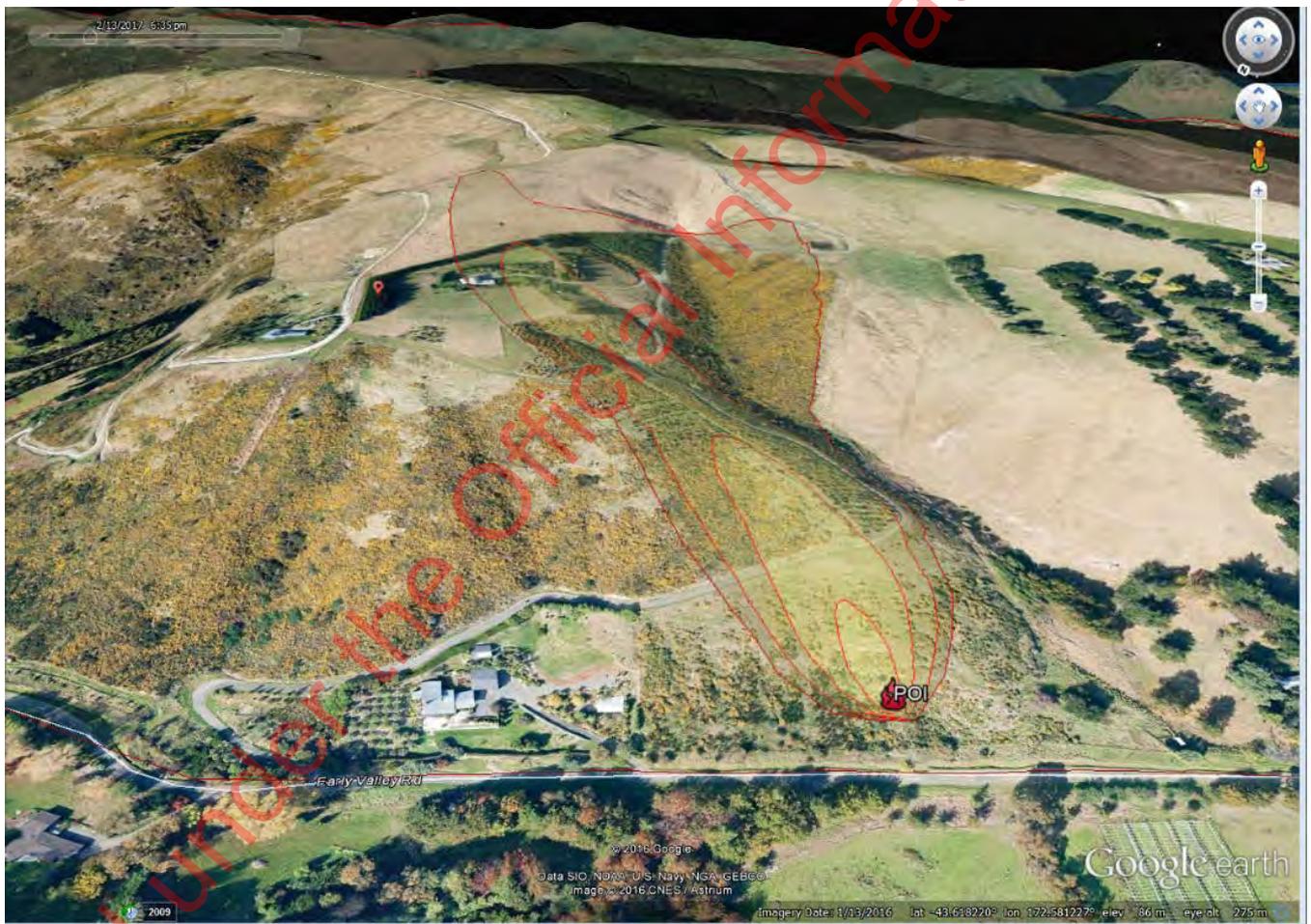
Report prepared by:  
Ian James Alexander,  
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# Appendix 9- Excerpt from 'Port Hills Fire Development Chronology'. (DRAFT)

## CHRONOLOGY

### Early Valley Fire

- 5) At 17:44 hours on Monday the 13<sup>th</sup> of February 2017 a scrub fire was reported burning on the uphill side of the road just to the east of Rapid number [REDACTED] Early Valley Road. Under hot dry windy conditions the fire quickly spread upslope and to the south east through 100% cured grass and gorse.
- 6) Fire behaviour predictions based on an uncalibrated scenario using data from the Lincoln weather station are as follows. The initial Head Fire Intensity (HFI) is calculated to have been around 300 to 1000kw/m<sup>2</sup> with a Rate of Spread (ROS) of 3 to 10m/min (0.18 to 0.6km/hr) in the grass fuels and HFI 15,000 to 35,000 kw/m<sup>2</sup> with a ROS of 15 to 20m/min (0.9 to 1.2km/hr) in the gorse fuels. (Photos have the Rate of Spread closer to 30m/min in the gorse fuels)



*(Uncalibrated prediction using data from the Lincoln weather station. Image supplied by Scion Rural Fire Research)*



*Early Valley Fire, taken at 17:48hrs 13/02/17*



*Also Taken at 17:48hrs 13/02/17 from a different view point.*



Early Valley fire initial progression. 17:44 (approx. 4 min intervals, ROS approx. 30m/min)



17:48



17:52



18:01

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## Appendix 10. Scion Prometheus modeling and assumptions



### 2017 Port Hills Fire Complex

Fire behaviour reassessment, Fire Growth Modelling

Issued: 26 June 2020

Prepared by: [REDACTED] & [REDACTED], Scion Rural Fire Research

Requested by: Jamie Cowan, Wildfire Management Specialist

Task(s):

Part 1: Carry out Prometheus runs for the first 30mins of Early Valley Road to help better identify the time of ignition. The following are the assumptions and parameters

TASK		Comment
5 differing slope factors over the first 350m of fire run. I have measured these last week, so we can input.	*	<i>Cannot change the slope in Prometheus, it uses actual terrain layers. Checked the slope from the 25m DEM layer in Prometheus and it matches (on average) your field calculations.</i>
Fuels alternating between 80% cured grass at around .4 high to gorse at 1.8m high. We can look at some photos to try and recreate the fuel patches	✓	<ul style="list-style-type: none"> <li>• 80, 85, 90% curing rates were trialled</li> <li>• Grass and gorse fuel patches applied</li> </ul>
The 4m wide road that had to be jumped	✓	<ul style="list-style-type: none"> <li>• Trialled both 3 and 4m wide barrier. No difference</li> </ul>
The effect of a point ignition on the ROS	✓	<ul style="list-style-type: none"> <li>• Trialled shifting the time backwards every 1min from 17:39 to meet the timing of the photographs.</li> <li>• Timings included various scenarios, adjusting: curing %, FFMC, with/without road, wind direction.</li> </ul>
Use the weather parameters that I will provide and check these against some of the data you have on file if we have time. (the data I have used has originally come from Scion)	✓	<p><i>Options included:</i></p> <ul style="list-style-type: none"> <li>• Average fire weather from three wx stations</li> <li>• Interpolated weather from 6 wx stations</li> <li>• Actual individual weather station data</li> <li>• Trialled current NZ FFMC 88 calculated values AND an aspect adjusted FFMC ( 91 &amp; 94).</li> </ul>

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Part 2: the Prometheus runs we require in your report are as follows

TASK		Comment
Scenario 1: Adjusted FFMC, wind at 19km/hr, ignition time of 17:36, with track, wind direction that best fits actual	✓	<p><i>Best fit for both timing and direction for this scenario was using:</i></p> <p>Track 4m; adjusted FFMC 91; average wx, wind 285; <b>ignition time of 17:34</b></p> <p>See appendix Scenario 1b</p>
Scenario 2: Adjusted FFMC, wind at 19km/hr, ignition time of 17:36, without track, wind direction that best fits actual	✓	<p><i>Best fit for both timing and direction for this scenario was using:</i></p> <p>No track; adjusted FFMC 91; average wx, wind 285; <b>ignition time of 17:36</b></p> <p>See appendix Scenario 2a</p>
Scenario 3: Extreme FFMC of 94, wind at 19km/hr, ignition time to reflect it reaching point 17:48 on time. (I'm guessing about 17:37 or 17:38.), with track and best wind direction.	✓	<p><i>Best fit for both timing and direction for this scenario was using:</i></p> <p>Track; adjusted ffmc 94; <b>interpolated weather from 6 stations; wind 280; ignition time of 17:36</b></p> <p>Track; adjusted ffmc 94; <b>Burks bush weather station; wind direction 280; ignition time of 17:36</b></p> <p>Track; adjusted ffmc 91; <b>Burks bush weather station; wind direction 280; ignition time of 17:34</b></p> <p>See appendix Scenario 3d, 3e or 3k</p>
Please make comment about the parameters etc.	✓	<ul style="list-style-type: none"> <li>• <i>See appendix</i></li> </ul>
Can you please also send a map of the weather station locations (those that we used), and a measurement to each one from the ignition point please.	✓	<ul style="list-style-type: none"> <li>• Two maps created. 1. with ALL nearby weather stations; 2. Showing only the 6 of interest.</li> <li>• Sent an excel file with the distance calculations of weather stations to the POI.</li> </ul>

**Additional questions:** NB Questions in Black were posed by Jamie Cowan, answers in blue were provided by [REDACTED] [REDACTED] Scion

The following are other factors/questions that we spoke about on the phone that I'd like a short reply on please.

1. The NZ fire behaviour calculators can not be adjusted to reflect the changes in FFMC due to aspect and slope. The Canadian system does and in the case of Early valley we have a slope greater than 20 degrees that is north facing, the Canadian system would increase the FFMC by 2 points. Do you think that this is a fair assumption/correction to make in this case?

Yes, while NZ does not currently use the Canadian aspect adjustments, I believe it is valid to adjust the FFMC to incorporate the increased drying likely to be experienced on a north-facing slope receiving much greater solar radiation.

2. The NZ calculator does not change the ROS due to fuel load. In this case where we have grass at origin around .4m high, do you think the calculator accurately reflects ROS? (thanks for the papers on this topic, I will review them, but wanted to see what you thought?)

Yes, I believe the NZ Fire Behaviour Toolkit calculator does accurately determine ROS in grass fuels, as it uses the well-tested and proven Canadian grass fire models which incorporate Canadian as well as Australian data. The science isn't yet conclusive on an effect of fuel load on fire spread (cf. intensity) in light fuels such as grasslands, whereas it is widely accepted fuel load does more effect in heavier forest fuels (hence the BUI effect in the Canadian forest models). The latest Australian papers (Cruz et al.) suggest any effect in grasslands is likely masked by the influence of other fuel structure effects (e.g. of fuel height and bulk density), so the existing distinctions captured by the Natural/Standing vs Cut/Matted grass models used in the NZ system and calculator capture these effects indirectly if not directly.

3. The NZ calculator assumes an equilibrium ROS, what assumptions are behind the calculations that this uses? By what time should we expect fine fuels to reach equilibrium? On this, the Canadian system shows an accelerating ROS at about half that of Equilibrium over the first 15 minutes in both open and closed fuels, can you comment on this and how it may apply to our grass and gorse in the Early valley event.

The NZ system used in the NZ field manual and Fire Behaviour Toolkit calculator does assume the fire has already reached its equilibrium ROS and is spreading as a line fire, so it does not include acceleration effects of small point fires soon after ignition. The time to reach equilibrium ROS varies by fuel type, with open fuels such as grasslands and scrublands responding much more quickly to conditions, especially wind, than closed forest fuels due to the effect of the forest trees on sheltering a surface fire beneath the canopy. The Canadian acceleration model used in the Redapp calculator and Prometheus fire growth model is based around a negative exponential relationship for determining the fraction of the equilibrium ROS from elapsed time since ignition. This acceleration model assumes that the fire will reach 90% of its equilibrium spread rate ( $ROS_{eq}$ ) in 20 mins for open (grass) fuels (see Forestry Canada Fire Danger Group 1992 FBP System report ST-X-3, p. 40); and  $\sim 0.45 ROS_{eq}$  after 5 mins, 0.7 at 10 mins and  $\sim 0.85 ROS_{eq}$  after 15 min. This acceleration model should work well in open fuels such as grass and gorse, although the effect of slope steepness would contribute to a fire accelerating potentially even more quickly than on flat ground; however, this can be accounted for by adjusting the flat-ground  $ROS_{eq}$  for the slope steepness first before determining the acceleration effect on this slope-adjusted  $ROS_{eq}$ .

4. I have attached a draft document on the initial fire spread, could you please have a quick look and make comments on any incorrect assumptions. (this is still very much in draft as I'm still working on it, but it will give the basis of our thoughts on weather, slope, fuel etc for the Prometheus runs. I'll continue to work on it over the weekend for discussion on Monday.)

Looks like you've done pretty well, based on your original calcs and then refinements following our discussion. One thing to be aware of is the uncertainty that exists within the NZ and Canadian ROS models themselves (and, in fact, in any predictive model). Not only do you have the uncertainty around the accuracy of the inputs used by the model to make the calculations, but there is also inherent uncertainty within the model itself based on the range and variability in the underlying data used to develop the model. For example, look at the spread of the dots in the grass models on p. 29 of the FBP report (Figs. 9 & 10). As such, any calculation output (such as for ROS) should be seen as just an estimate, not an absolute prediction, and there could in fact be quite a lot a variability in this – easily as much as 20-50% and, if you look at Cruz & Alexander (2013 – see attached), potentially +/- 100% or even more. As such, predictions of a ROS of 20 m/min could mean the actual rate might be in the range of 16-24 m/min (for +/-20%) or 10-30 m/min (for +/-50%), or even 0-40 m/min (if you used +/-100%). So just a general note of caution about how you talk about your results - as estimates not exact values, acknowledging the uncertainty in the inputs and models themselves, as well as your and the models' underlying assumptions.

**Additional comments:**

Note, I haven't seen any response on the specific question around how well Prometheus works during the acceleration phase.

But in a conversation with [REDACTED] from Alberta Ag & Forests indicated that Prometheus had been used in court previously (by Prometheus developer, [REDACTED]) to do something very similar for railway-caused fires in Alberta starting from metal sparks (for the 2001 Chisholm fire).

In [REDACTED] view, if Prometheus is set up right with the correct timestep and acceleration settings, it will definitely handle this early fire acceleration phase.

- 1.) By default, acceleration is turned on for point ignitions. We may have cleaned that up when [REDACTED] streamlines the interface.
- 2.) The stat's view has a few different options – being reporting what a weather stream is providing (which won't show any patch applications), or for a given location (which should apply all patches and grids).
- 3.) you want to select the virtual weather station location. That will require a physical location (coordinates), and you should see what the scenario / simulation sees at that location.
- 4.) If I understand your question correctly, then Prometheus and PSaaS should be deterministic, being the outputs are always repeatable for any duration of simulation.
- 5.) [REDACTED] did have Prometheus in court. That was many years ago, and he may have some documentation on that, [REDACTED] may have too. I don't, just have info of what I've been told.

## Appendix:

For each of the scenarios presented overleaf, the default parameters in Prometheus were calibrated to represent the actual conditions for the fire ground on the day of ignition in Early Valley. Unless otherwise stated, the following parameters and assumptions were applied:

### Burn Options:

- **Start date:** 13/02/2017
- **Start time:** 1739 (DST) (plus other times trialled to match expected fire growth (e.g. 1736 hrs)
- **Fire propagation display interval:** 1min
- **Maximum timestep during acceleration:** 5seconds
- **Terrain effects:** on
- **Breaching:** on
- **Physical barriers included:**
  - 7m road width for Early Valley Road
  - 4m road width for the track going up the hill

### Fire Weather:

**Yesterday's starting FWI daily codes:** (12/02/2017)

- **FFMC:** 90.3
- **DMC:** 64
- **DC:** 549
- **Rainfall:** 0mm

(these are averages based on the three nearest fire RAWS – Bottle lake, Christchurch Aero, Motukarara)

**Today's hourly starting code:**

- **hFFMC:** 87 (average from the three nearest RAWS)
- **hour:** 1300 (DST)
- **FFMC method of calculation:** Van Wagner (we had the presence of rainfall on the 13<sup>th</sup> and hourly data was present).

Other options investigated were:

- aspect adjusted FFMC 91 @ 1300 hrs,
- adjusted FFMC of 94 at 1700hrs (represents a worst-case scenario).

**Landscape weather patch:**

- A landscape weather patch using average fire weather from the three nearest fire RAWS (Temp 24°C, RH 31%, windspeed. 19km/h) was applied between the hours of 17:00 and 18:00.
- Another option investigated was when individual weather station data was selected, then a landscape wind direction patch was applied (as opposed to the other weather elements).

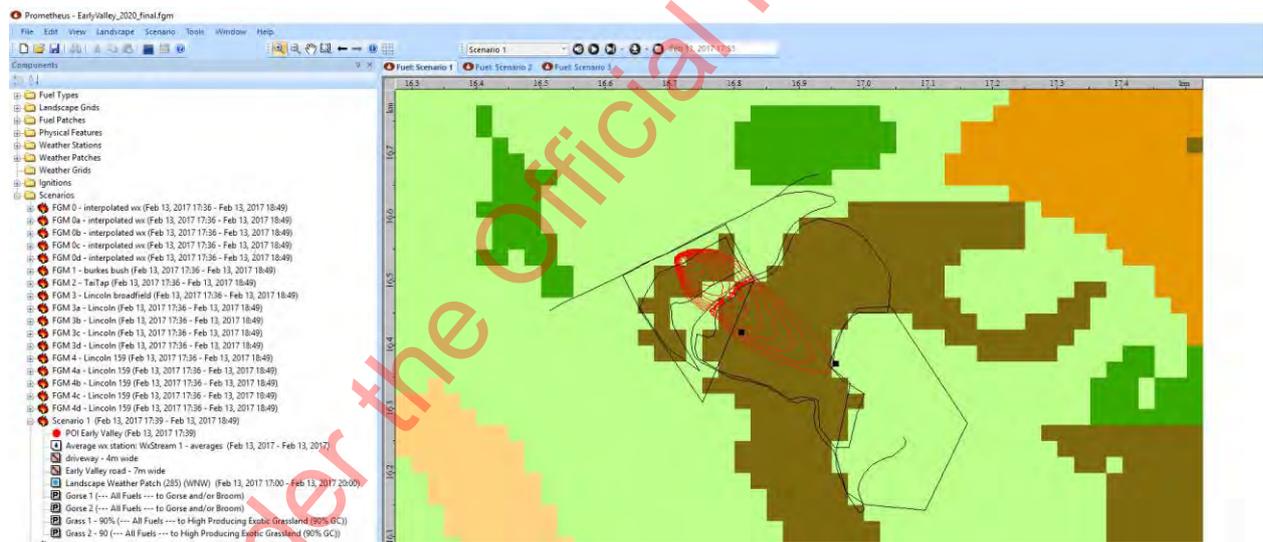
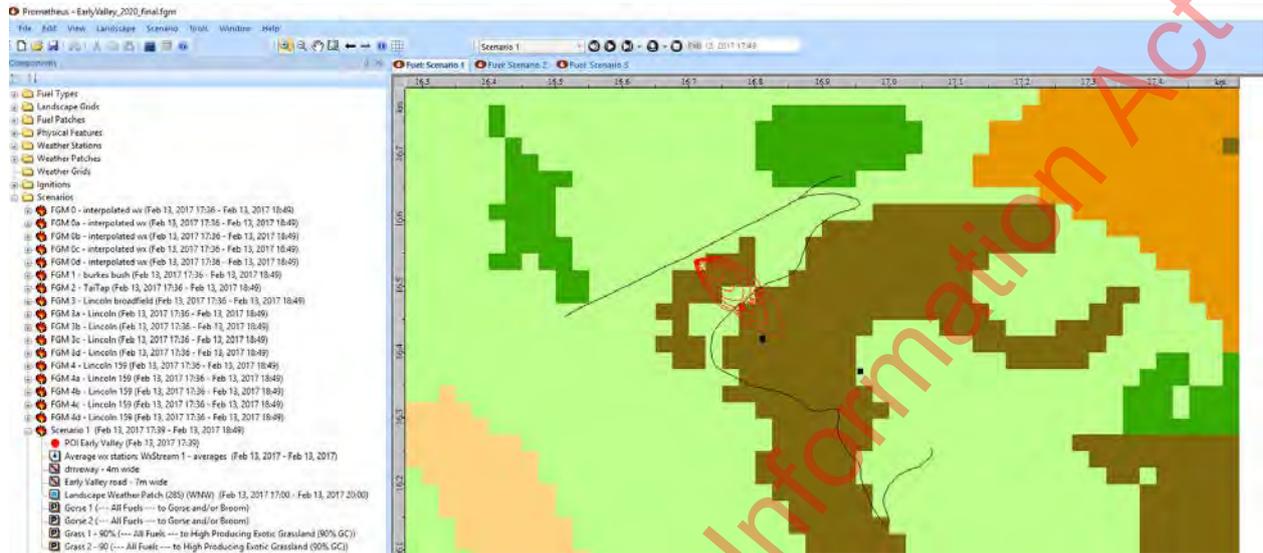
**Vegetation calibrations:**

- Grass curing of 90% applied (tests with 80%, 90%, 100%).
- Fuel patch applied for standing grass of 0.5m tall grass and assumes 8 t/ha (0.8 kg/m<sup>2</sup>).
- Fuel patch applied for gorse of 1.8m tall gorse and assumes 33 t/ha (3.3 kg/m<sup>2</sup>).

**Scenario 1: Track included; adjusted ffmc 91; average wx, wind 285; ignition time of 17:39**

**Results:**

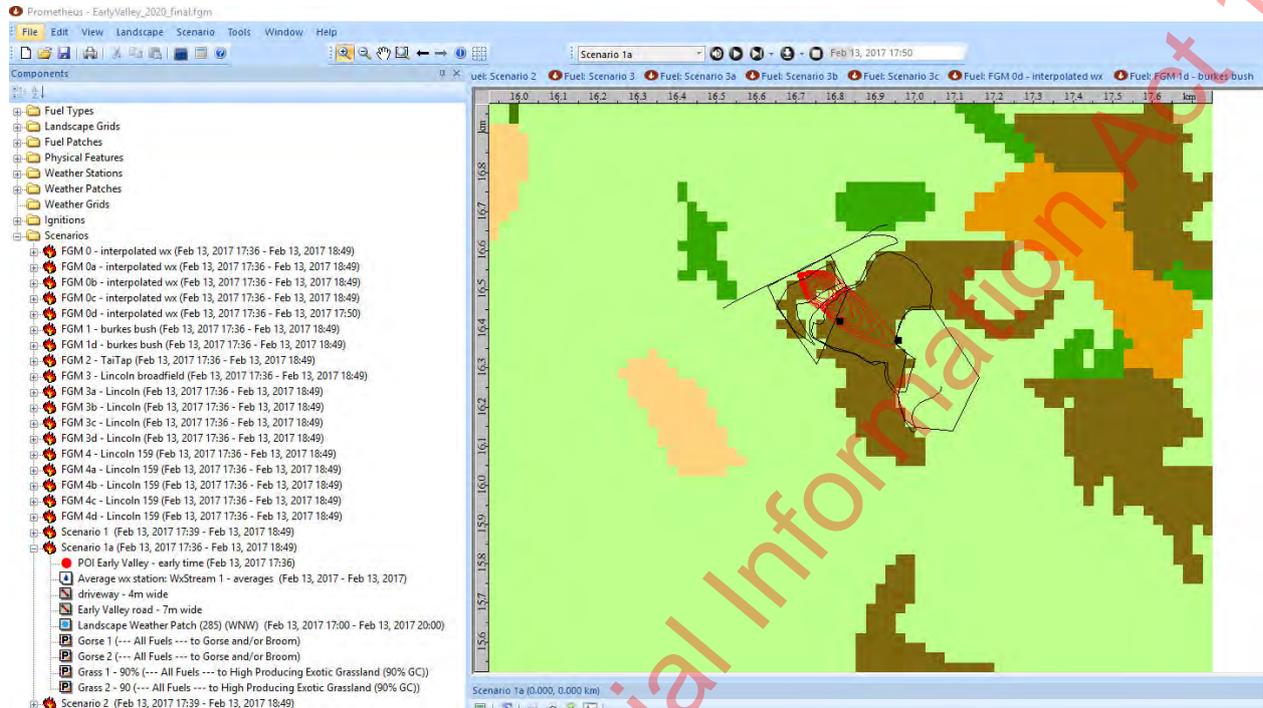
- The head of the fire reaches the first photo mark at 17:49
- The head of the fire reaches the second photo mark at 17:53
- Fire growth direction is a fit, but timing is not



**Scenario 1a: Track included; adjusted ffmc 91; average wx, wind 285; ignition time of 17:36**

**Results:**

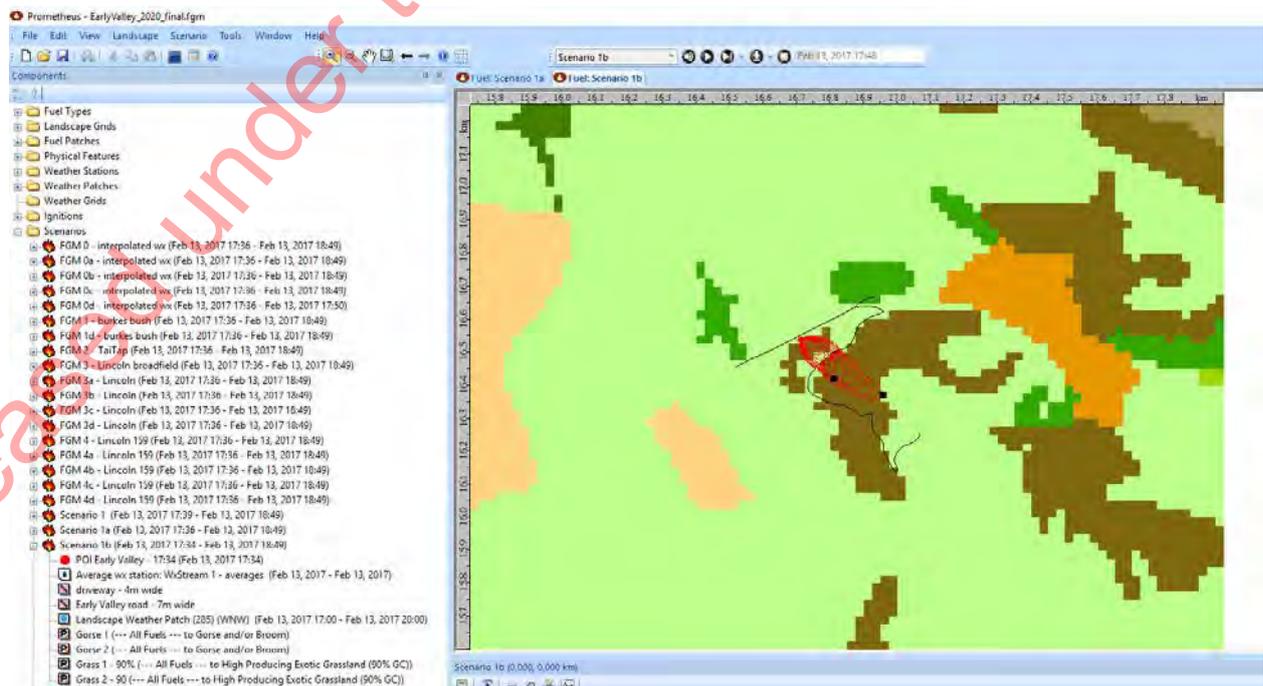
- The head of the fire reaches the first photo mark at 17:46
- The head of the fire reaches the second photo mark at 17:50
- Fire growth direction is a fit, but timing is not



**Scenario 1b: Track included; adjusted ffmc 91; average wx, wind 285; ignition time of 17:34**

**Results:**

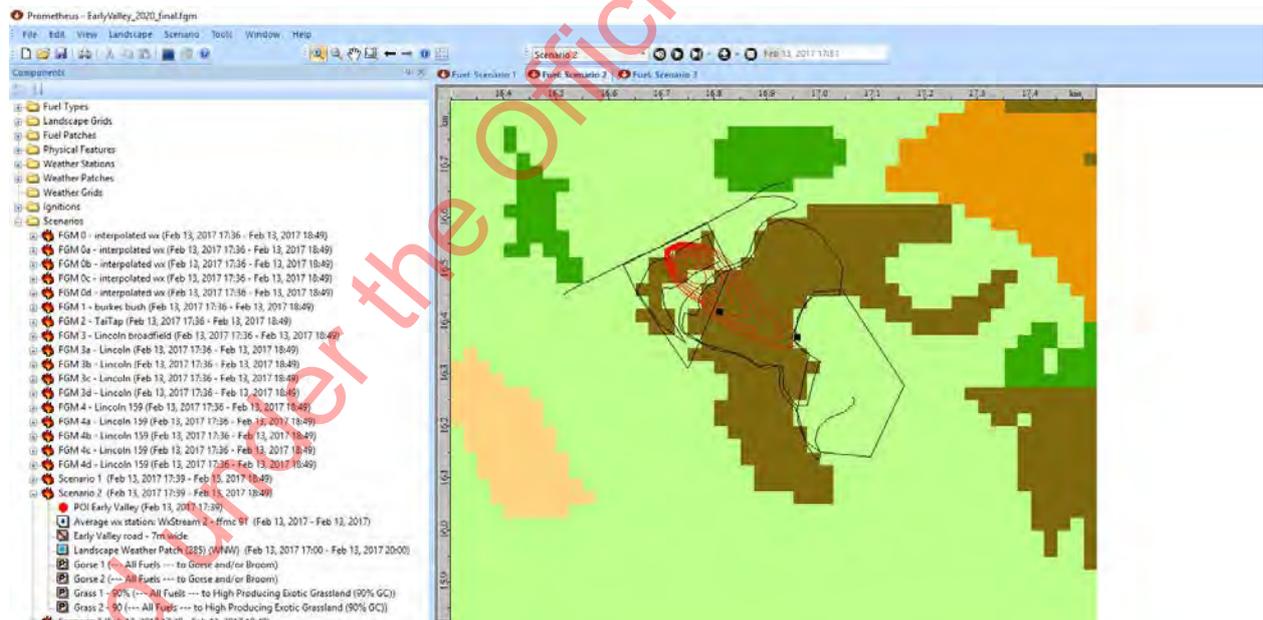
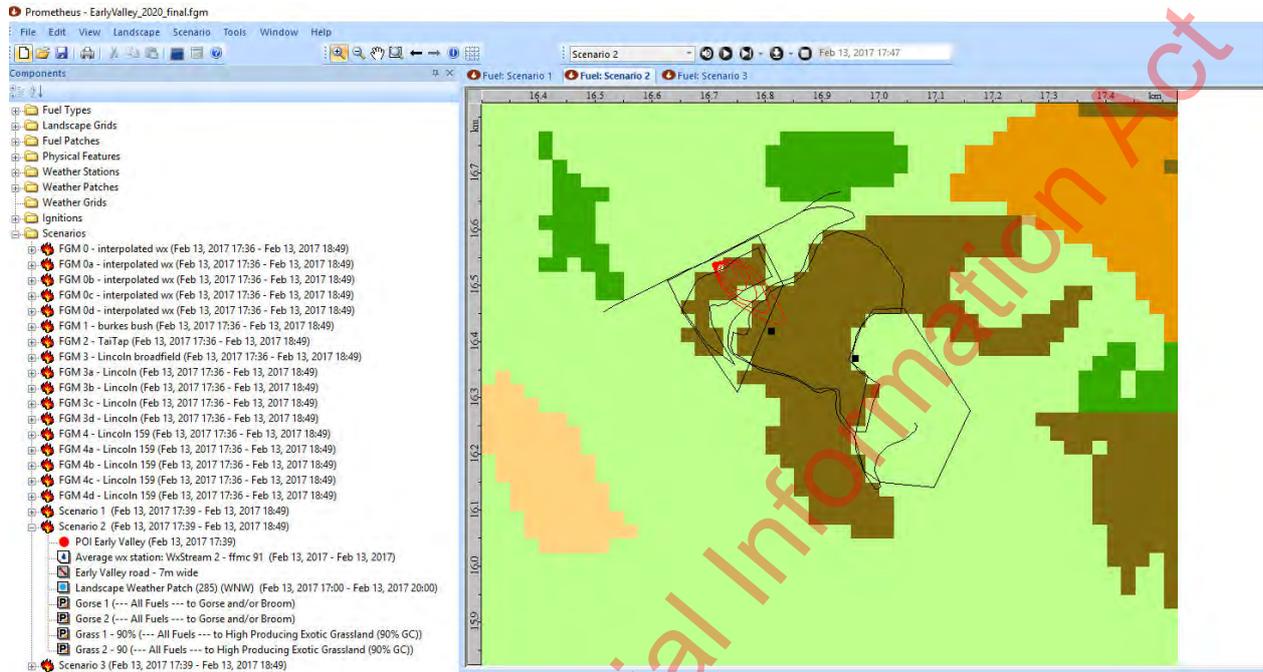
- The head of the fire reaches the first photo mark at 17:44
- The head of the fire reaches the second photo mark at 17:48
- Fire growth direction is a fit, timing is a fit



**Scenario 2: No track; adjusted ffmtc 91; average wx, wind 285; ignition time of 17:39**

**Results:**

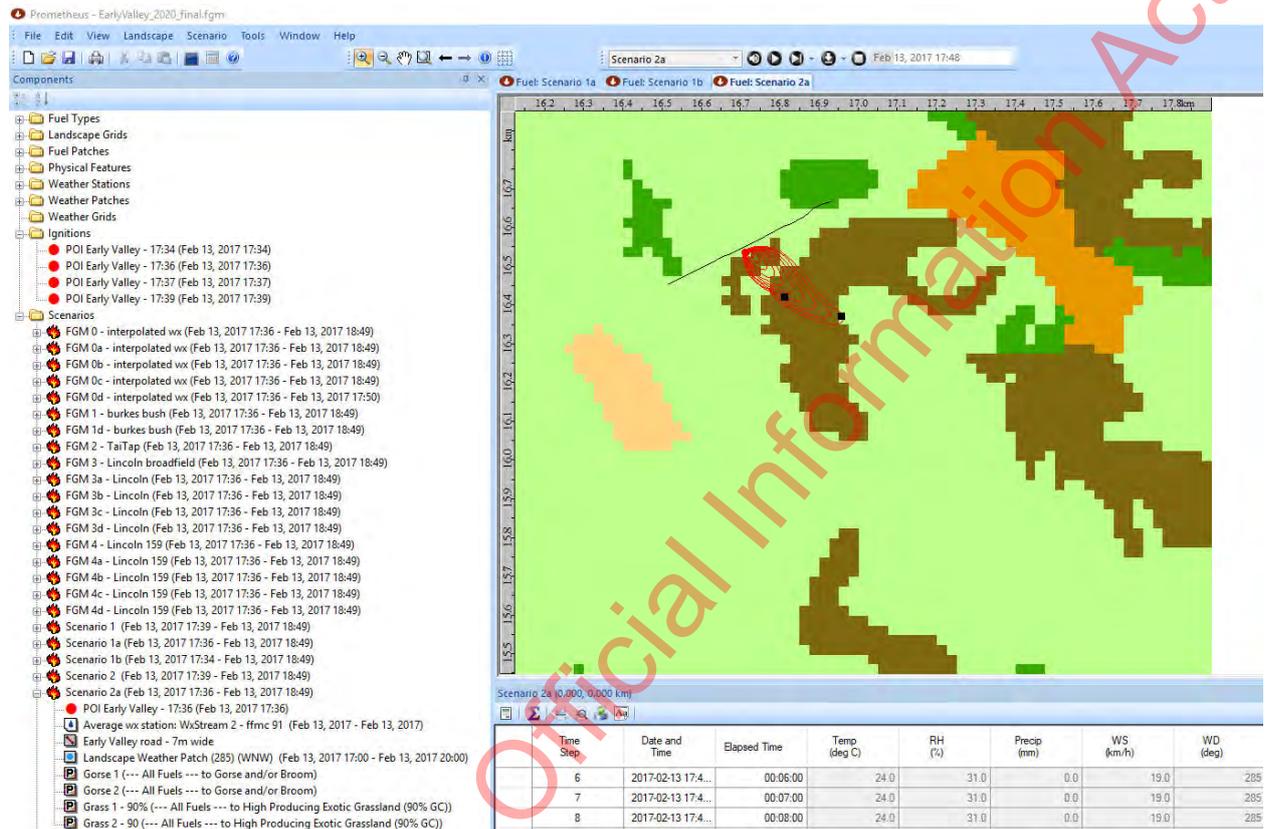
- The head of the fire reaches the first photo mark at 17:47
- The head of the fire reaches the second photo mark at 17:51
- Fire growth direction is a fit, but timing is not



**Scenario 2a: No track; adjusted ffmc 91; average wx, wind 285; ignition time of 17:36**

**Results:**

- The head of the fire reaches the first photo mark at 17:44
- The head of the fire reaches the second photo mark at 17:48
- A good fit with fire growth and timing

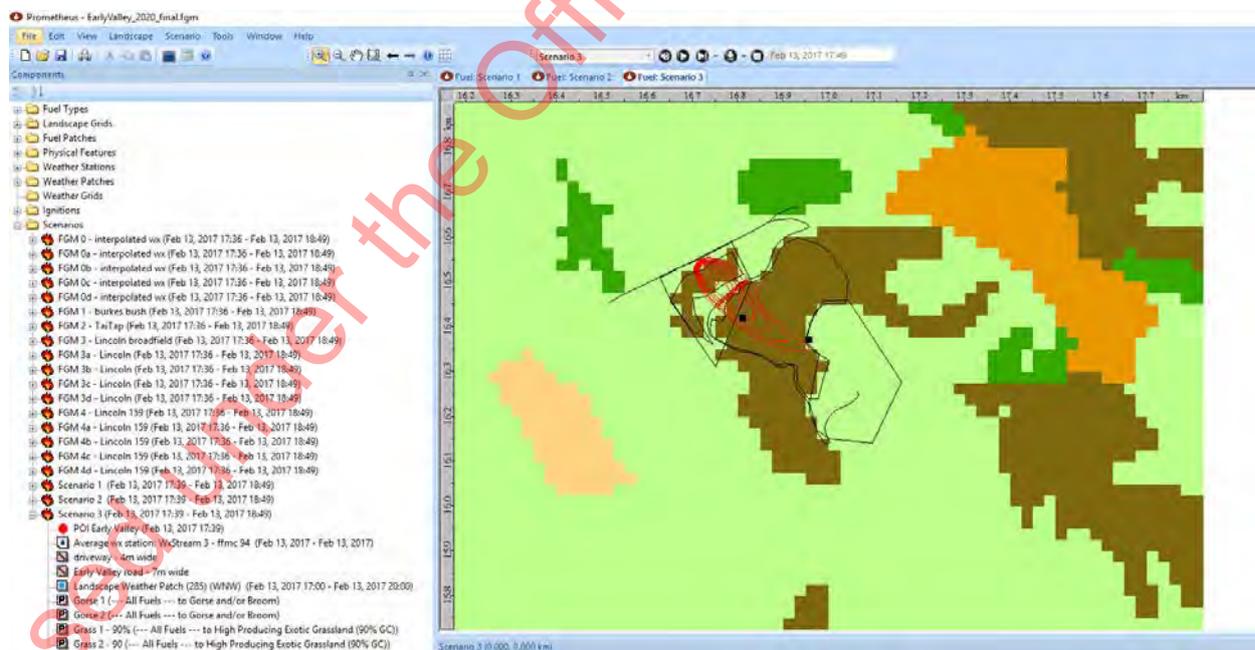
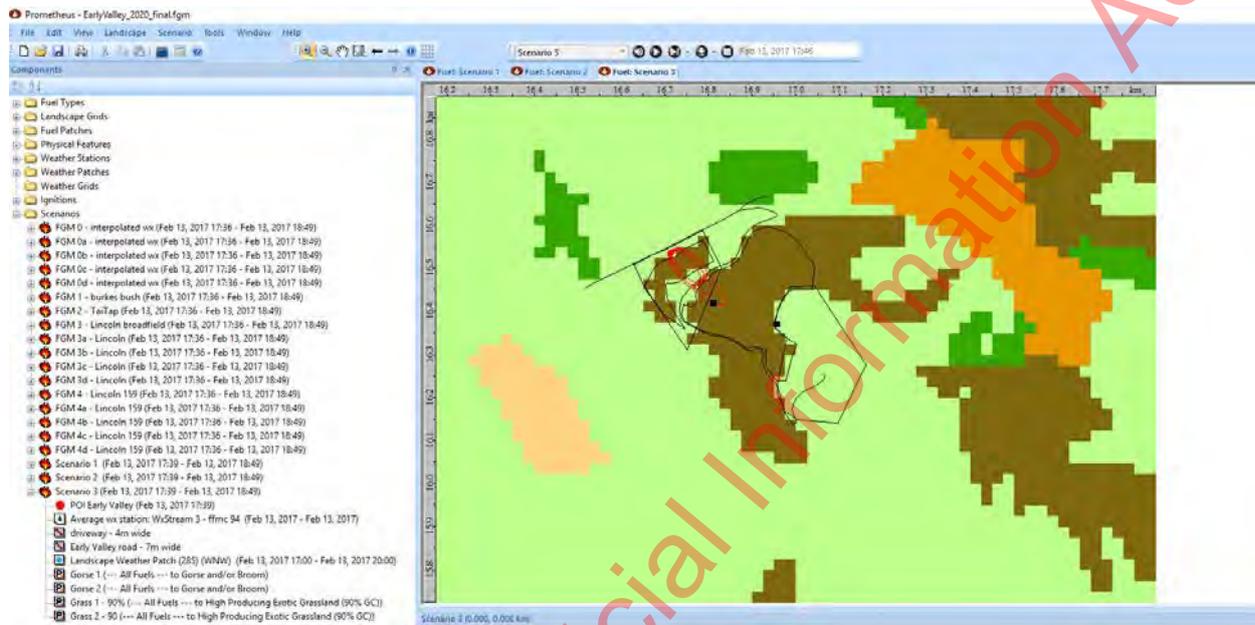


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Scenario 3: Track; adjusted **ffmc 94**; average wx, wind 285; ignition time of **17:39**

Results:

- The head of the fire reaches the first photo mark at 17:46
- The head of the fire reaches the second photo mark at 17:49
- Fire growth direction is a fit, but timing is not

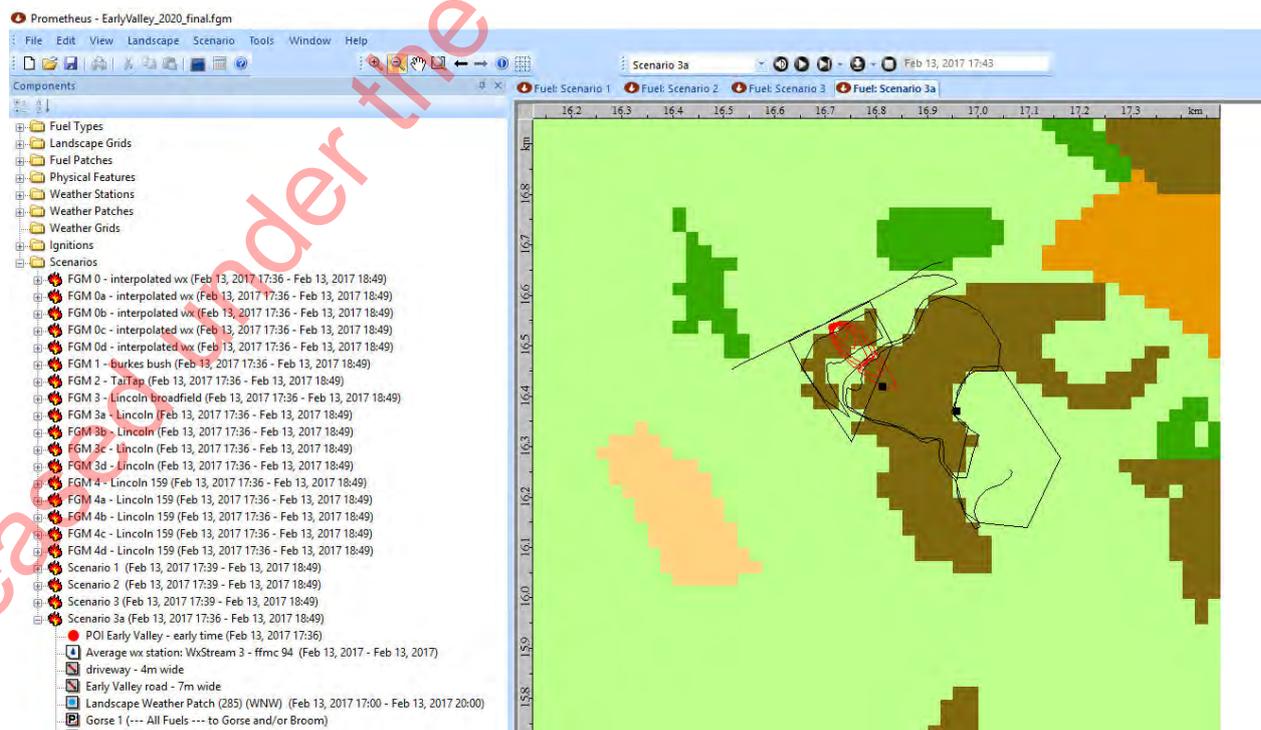
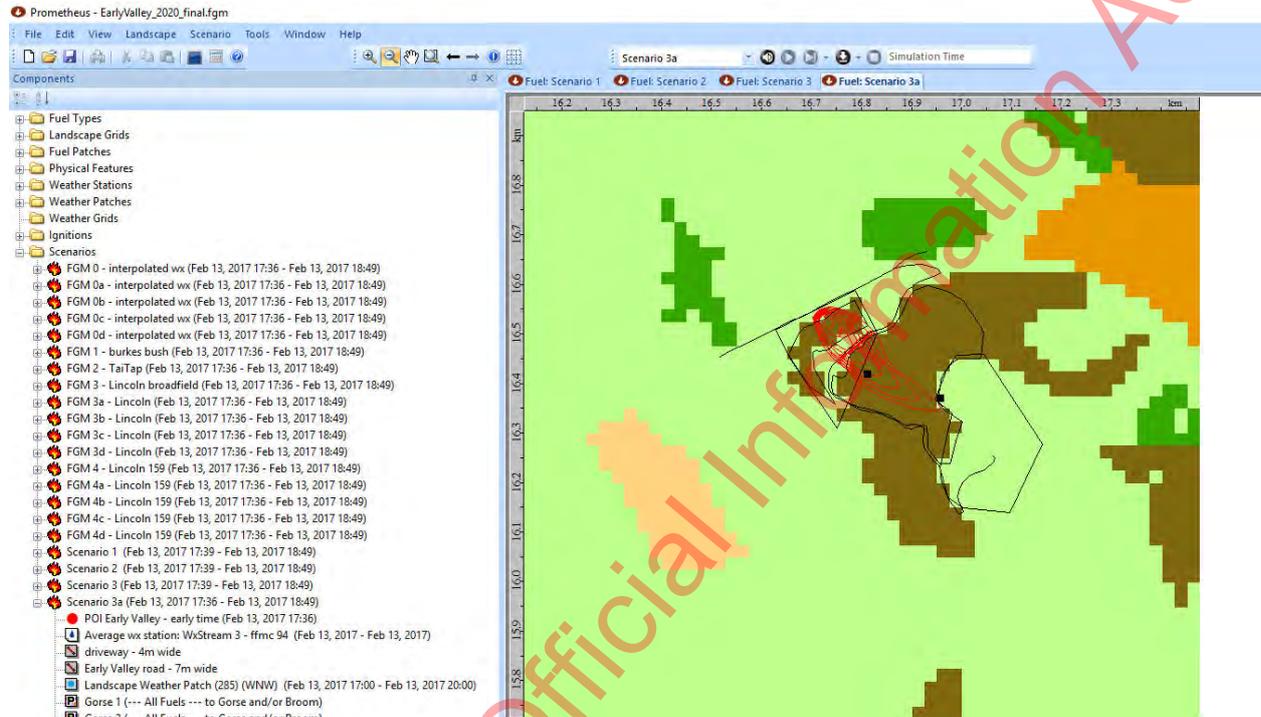


**Scenario 3a: Track; adjusted **ffmc 94**; average wx, wind 285; ignition time of **17:36****

- Changing ignition start time from 17:39 to 17:36

**Results:**

- The head of the fire reaches the first photo mark at 17:43
- The head of the fire reaches the second photo mark at 17:46
- Fire growth direction is a fit, but timing is not. The fire is spreading too fast.

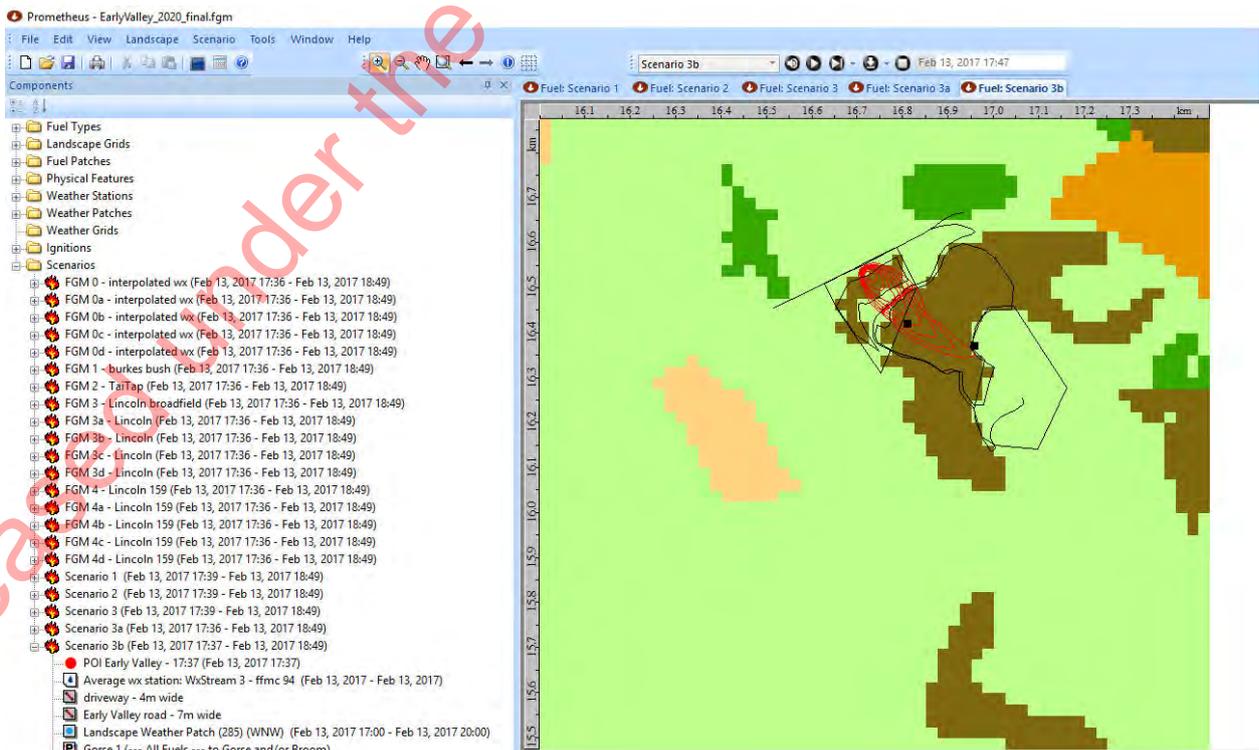
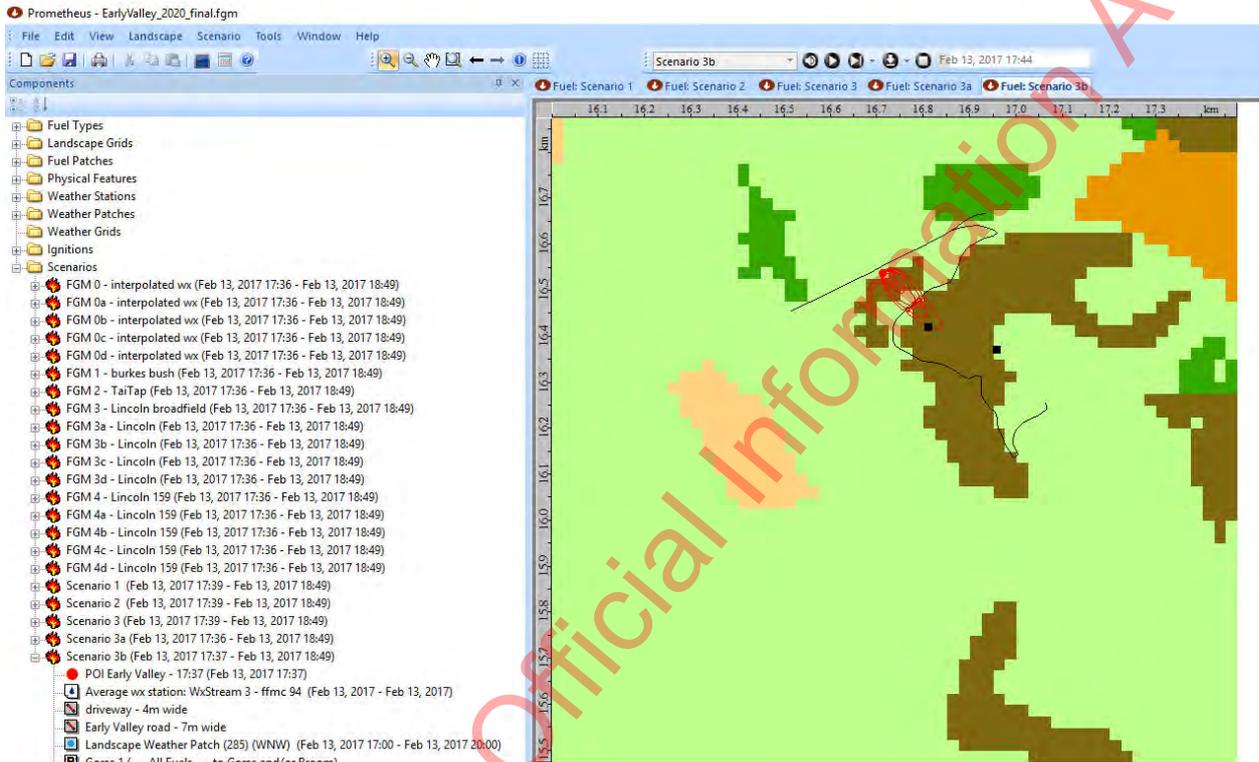


**Scenario 3b: Track; adjusted ffmc 94; average wx, wind 285; ignition time of 17:37**

- Changing ignition start time from 17:39 to 17:37

**Results:**

- The head of the fire reaches the first photo mark at 17:44
- The head of the fire reaches the second photo mark at 17:47
- Fire growth direction is a fit, but timing is not. The fire is spreading too fast

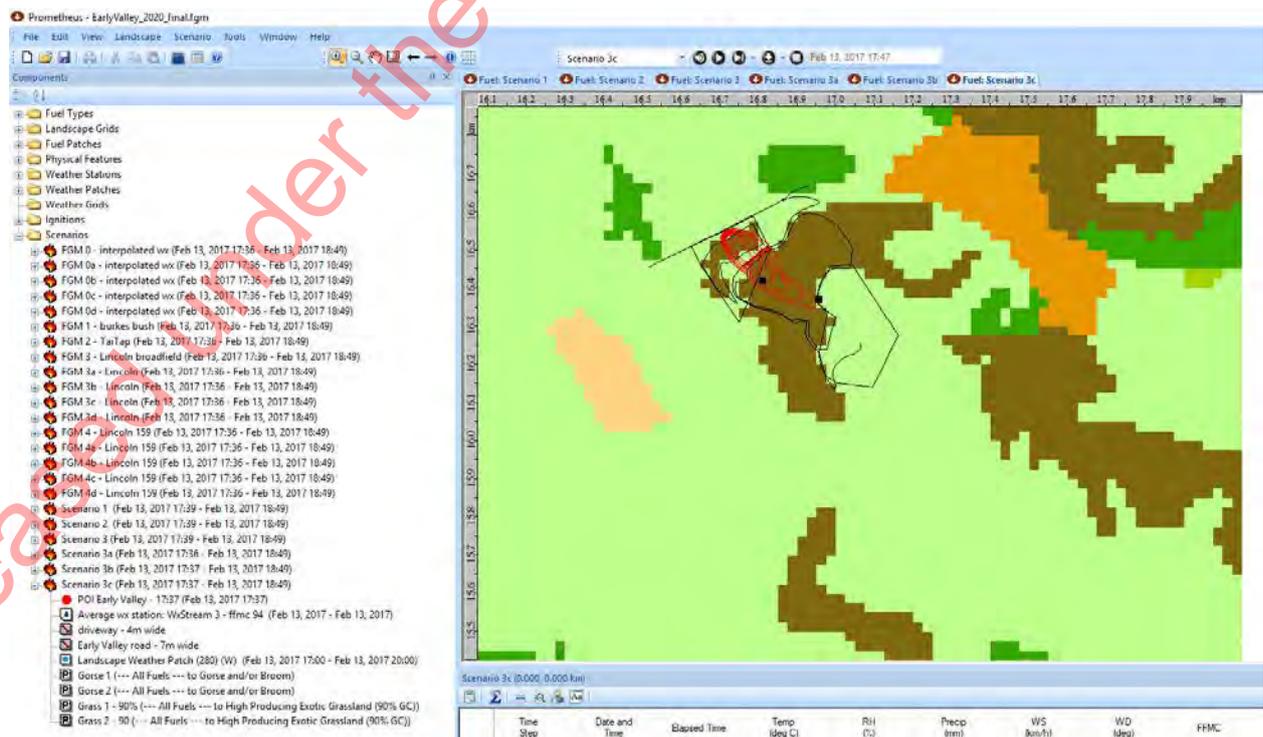
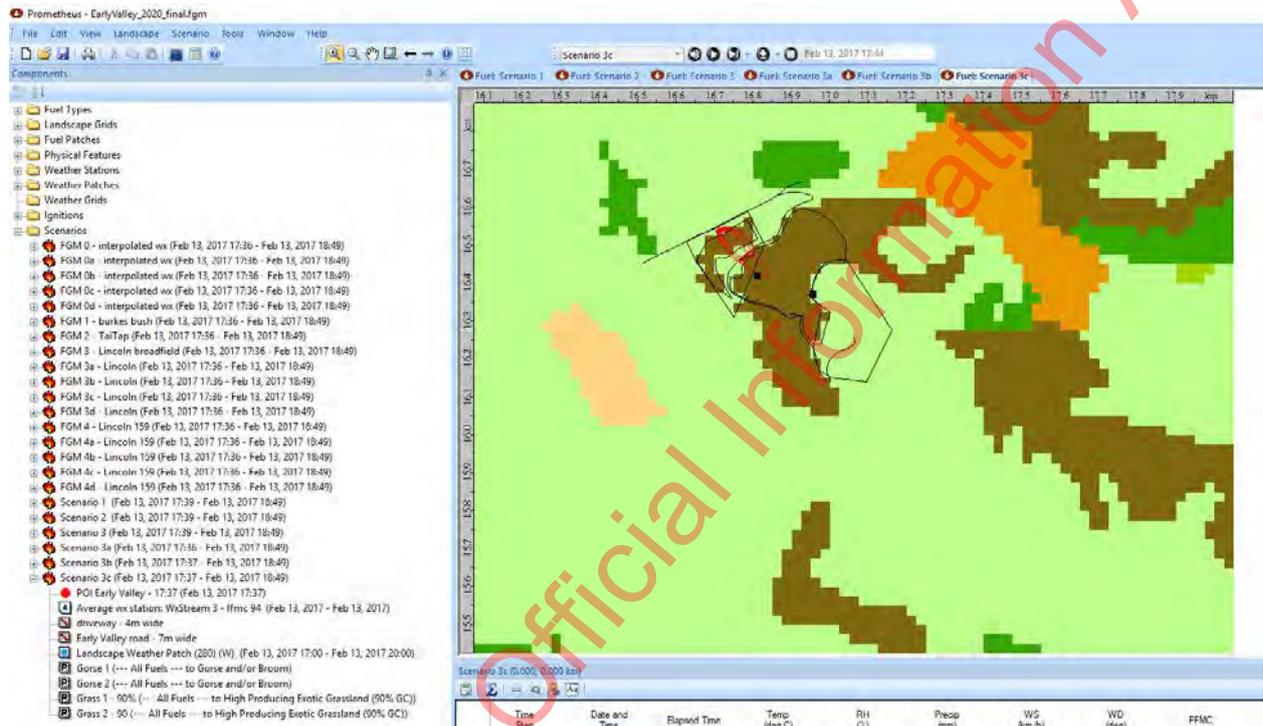


**Scenario 3c: Track; adjusted ffmc 94; average wx, wind 280; ignition time of 17:37**

- Changing ignition start time from 17:39 to 17:37
- With a landscape wind direction patch only, of 280 (various wind directions were also trialed 275, 280, 285, 290, 315)

**Results:**

- The head of the fire reaches the first photo mark at 17:44
- The head of the fire reaches the second photo mark at 17:47
- Fire growth direction is a fit, but timing is not. The fire is spreading too fast.



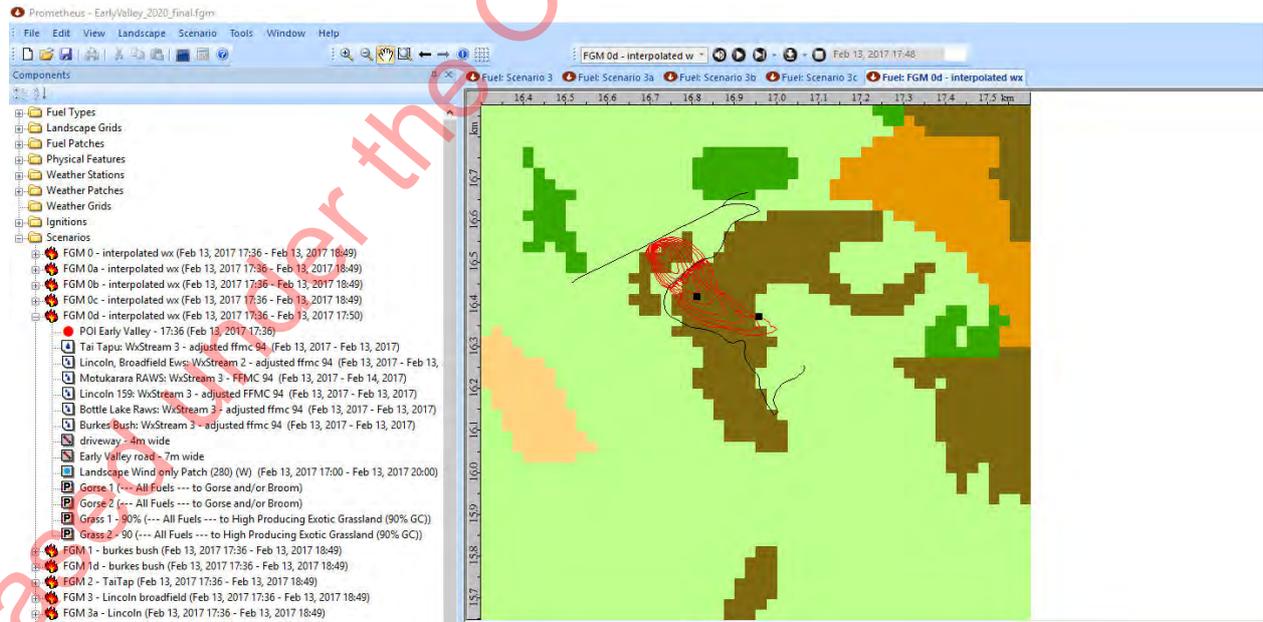
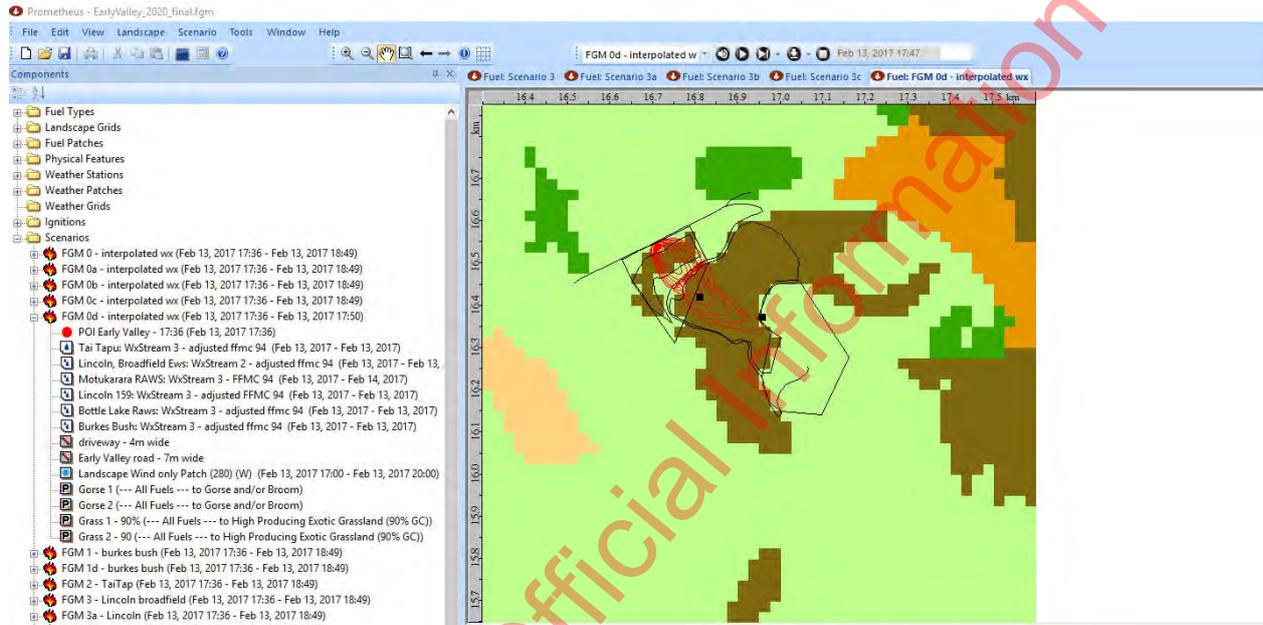
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**Scenario 3d: Track; adjusted **ffmc 94**; interpolated station weather; wind 280; ignition time of 17:36**

- Actual hourly weather was spatially interpolated from the 6 nearest weather stations
  - Tai Tapu, Lincoln (Broadfield), Lincoln 159, Motukarara, Burkes Bush, Bottle Lake.
- Changing ignition start time from 17:39 to 17:36

**Results:**

- The head of the fire reaches the first photo mark at 17:43
- The head of the fire reaches the second photo mark at 17:47/48
- Fire growth direction is a fit, and timing is very close.

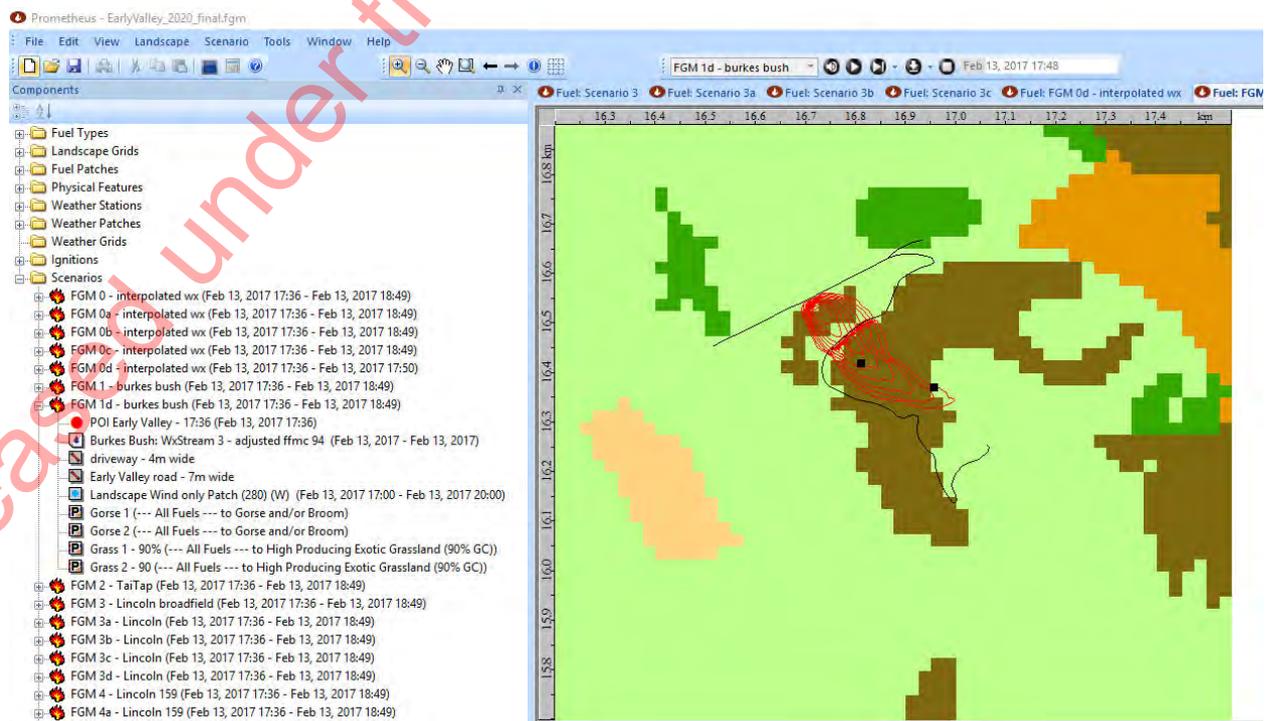
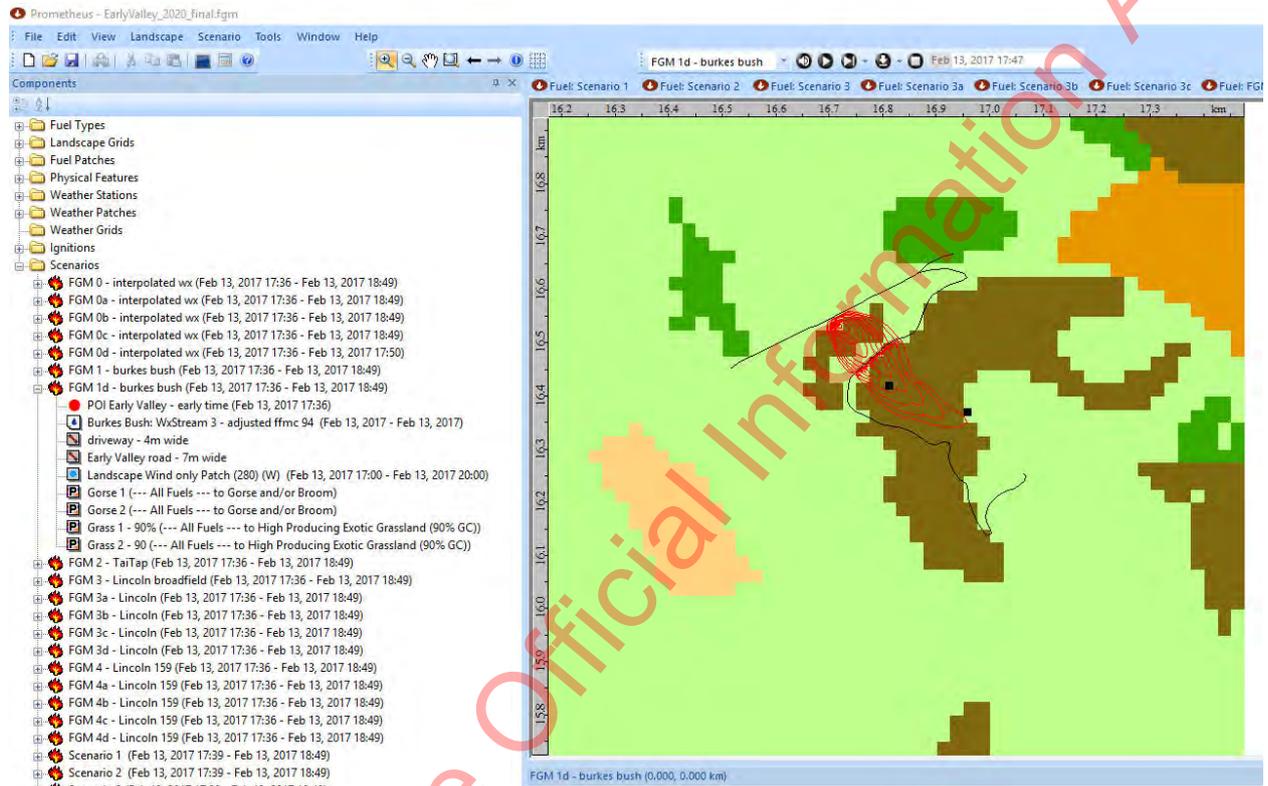


**Scenario 3e: Track; adjusted ffmc 94; individual station weather; wind 280; ignition time of 17:36**

- Actual hourly weather from nearest weather station (**Burkes Bush**)
- With a landscape wind direction patch only, of 280
- Changing ignition start time from 17:39 to 17:36

**Results:**

- The head of the fire reaches the first photo mark at 17:44
- The head of the fire reaches the second photo mark at 17:47/:48
- Fire growth direction is a fit, and timing is very close.

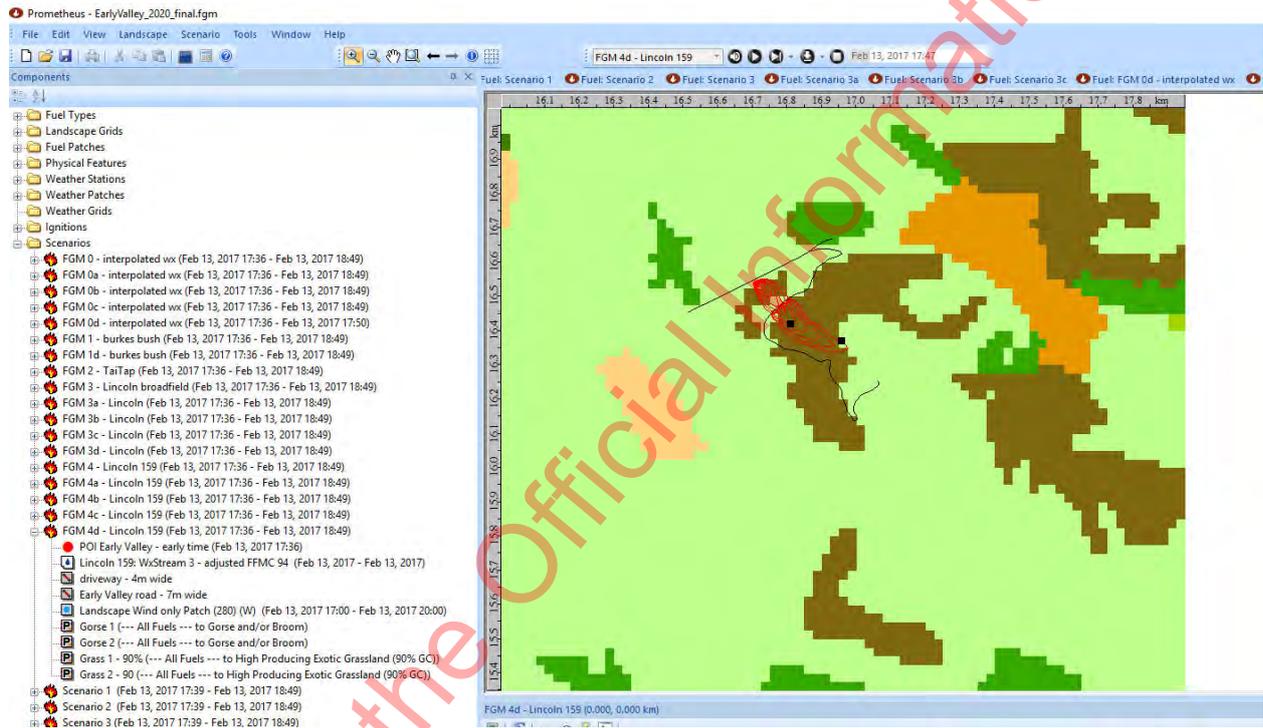


**Scenario 3f: Track; adjusted **ffmc 94**; **individual station weather**; **wind 280**; ignition time of **17:36****

- Actual hourly weather from nearest weather station (**Lincoln 159**, best public station out of the four, as it's not sited in a built up area environment).
- With a landscape wind direction patch only, of 280
- Changing ignition start time from 17:39 to 17:36

**Results:**

- The head of the fire reaches the first photo mark at 17:43
- The head of the fire reaches the second photo mark at 17:47
- Fire growth direction is a fit, and timing is out.



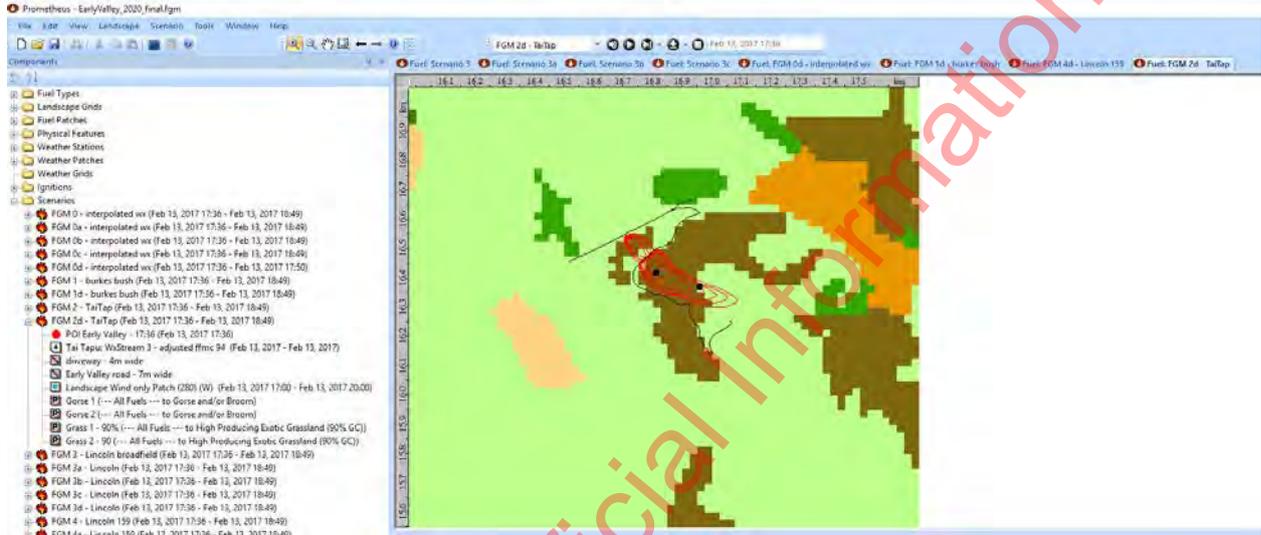
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**Scenario 3g: Track; adjusted ffmc 94; individual station weather; wind 280; ignition time of 17:36**

- Actual hourly weather from nearest weather station (Tai Tapu)
- With a landscape wind direction patch only, of 280
- Changing ignition start time from 17:39 to 17:36

**Results:**

- The head of the fire reaches the first photo mark at 17:43
- The head of the fire reaches the second photo mark at 17:47
- Fire growth direction is a fit, and timing is out.

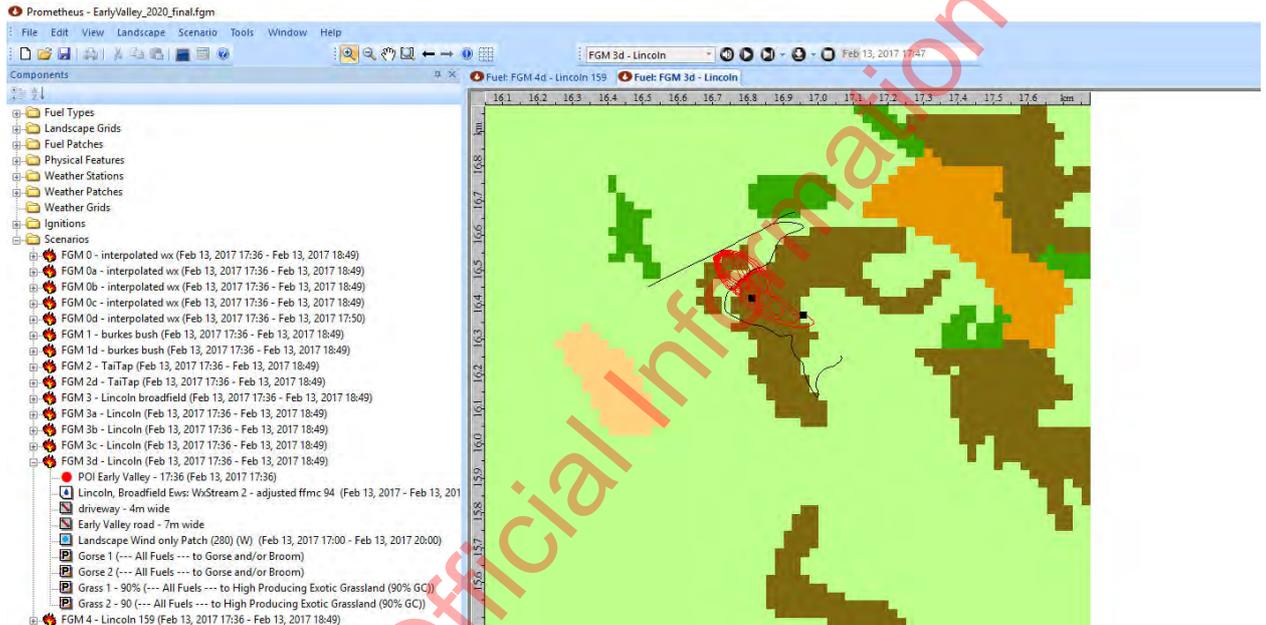


**Scenario 3h: Track; adjusted **ffmc 94**; individual station weather; wind 280; ignition time of 17:36**

- Actual hourly weather from nearest weather station (**Lincoln, Broadfield**)
- With a landscape wind direction patch only, of 280
- Changing ignition start time from 17:39 to 17:36

**Results:**

- The head of the fire reaches the first photo mark at 17:43
- The head of the fire reaches the second photo mark at 17:47
- Fire growth direction is a fit, and timing is out.

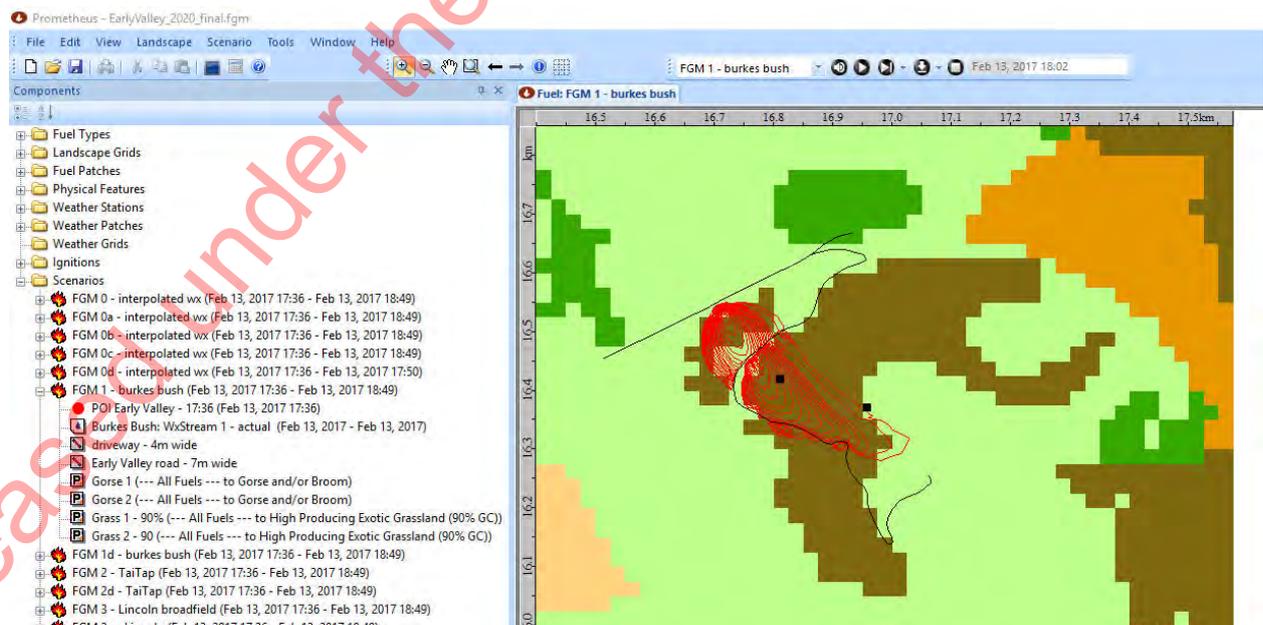
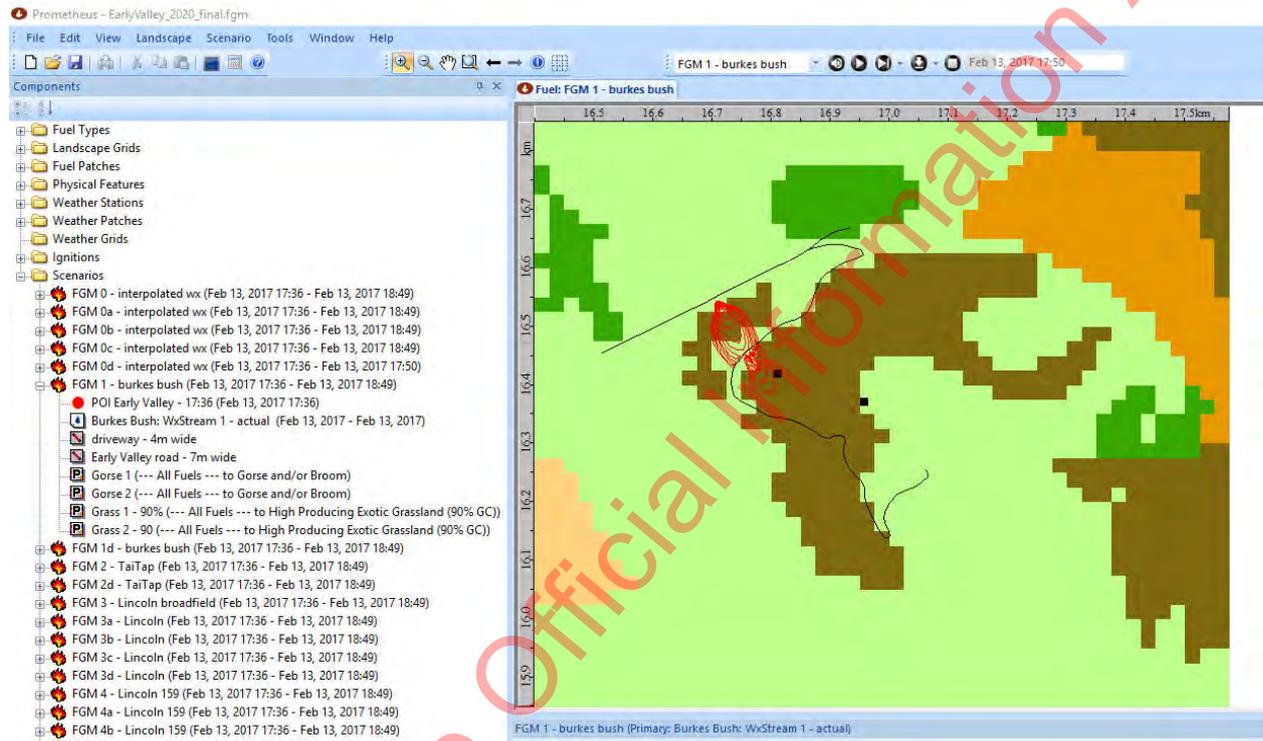


### Scenario 3i: Track; actual station weather; ignition time of 17:36

- Actual hourly weather from nearest weather station (Burkes Bush)
- Using Motukarara starting FWIs (it is the nearest fire RAWS)
- Changing ignition start time from 17:36

### Results:

- The head of the fire reaches the first photo mark at 17:50
- The head of the fire reaches the second photo mark at 18:02
- Fire growth timing is out.

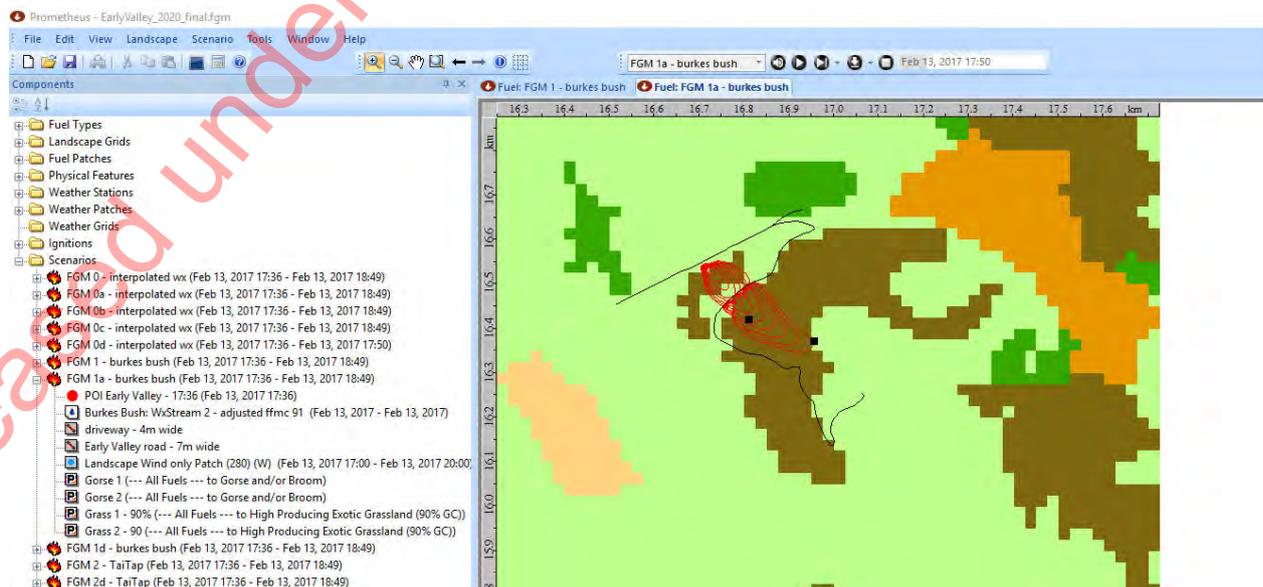
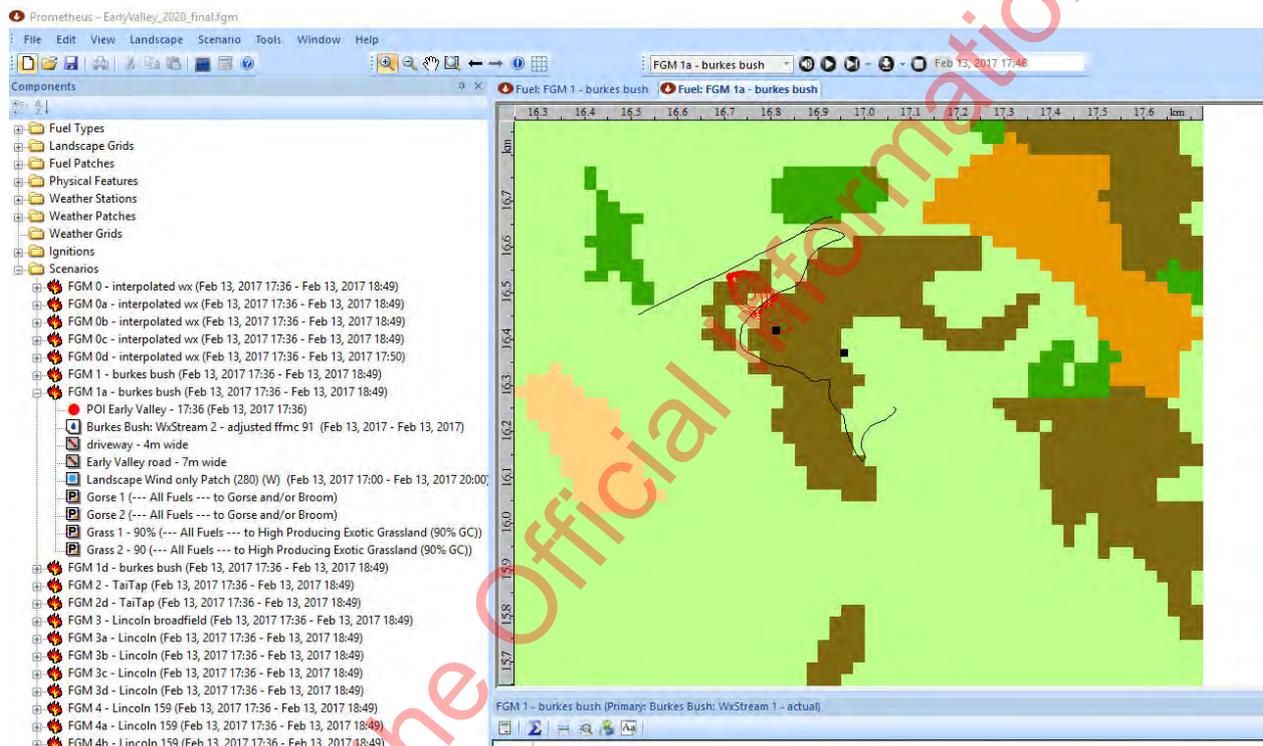


**Scenario 3j: Track; adjusted **ffmc 91**; actual station weather; wind 280; ignition time of 17:36**

- Actual hourly weather from nearest weather station (**Burkes Bush**)
- Using Motukarara starting FWIs (it is the nearest fire RAWS)
- With a landscape wind direction patch only, of 280
- Changing ignition start time from 17:36

**Results:**

- The head of the fire reaches the first photo mark at 17:45/46
- The head of the fire reaches the second photo mark at 17:50
- Fire growth direction is a fit, fire growth timing is out.

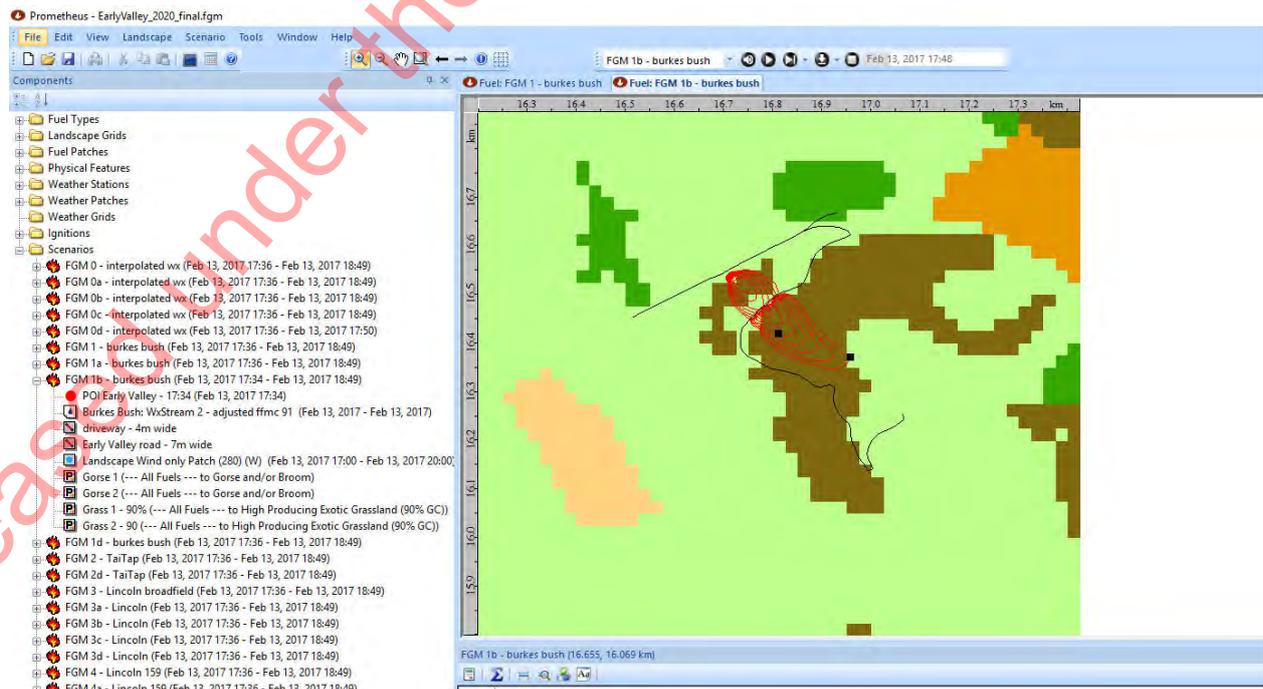
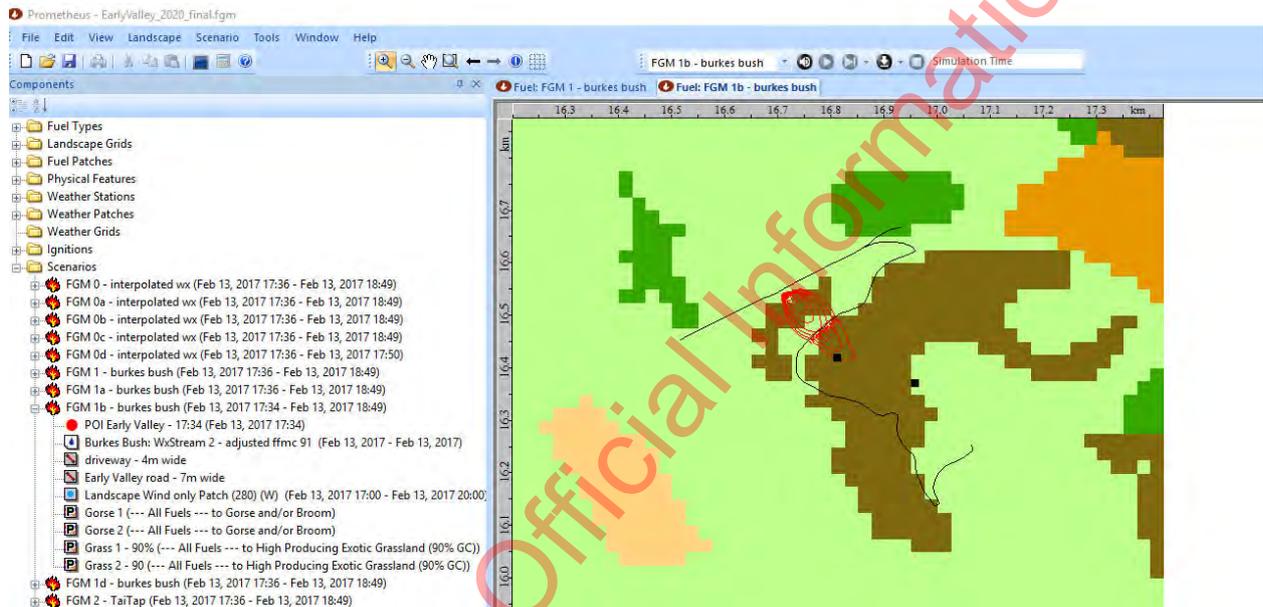


**Scenario 3k: Track; adjusted ffmc 91; actual station weather; wind 280; ignition time of 17:34**

- Actual hourly weather from nearest weather station (**Burkes Bush**)
- Using Motukarara starting FWIs (it is the nearest fire RAWs)
- With a landscape wind direction patch only, of 280
- Changing ignition start time from 17:34

**Results:**

- The head of the fire reaches the first photo mark at 17:44
- The head of the fire reaches the second photo mark at 17:48
- Fire growth direction and timing is a fit.



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Appendix 11 Witness Identification Log

To redact please remove this appendix.

Witness 1- First caller to 111

[REDACTED]

Witness 2- Second caller to 111

[REDACTED]

Witness 3- Oh My God video taker

[REDACTED]

Witness 4 – Local resident

[REDACTED]

Witness 5- Local resident

[REDACTED]

Witness 6- Local resident

[REDACTED]

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