

Date : 12/01/2021 2:09:53 PM

From : "CAMBOURN Neil"

To : "HARRIS Leigh" , "HEAD Damien" , "MACDONALD Stirling" , "DARGUSCH Marc" , "CUBIS Mick" , "SEELEITHER Jamie"

Subject : FW: Duling BF_update_0900_20201214

Attachment : DulingBF_ICs2SituationAnalysisBackground_20201214.docx;Incident Action Plan Landscape Fire (Fire Response and Recovery) 20201214.docx;ICS 3_Situation Analysis Strategies_20201214.docx;QPWS

SMEAC_Duling_0900_20201214.docx;image001.png;image002.png;

Handback analysis



Neil Cambourn

Executive Director

Queensland Parks and Wildlife Service

Department of Environment and Science

P 07 3199 7518 M **Personal info**

Level 5, 400 George Street, Brisbane QLD 4000

From: CONNOR Nathan <Nathan.Connor@des.qld.gov.au>

Sent: Monday, 14 December 2020 10:08 AM

To: BUCKLEY Andrew; CUBIS Mick; CAMBOURN Neil; MCLAUGHLIN Marty

Subject: Duling BF_update_0900_20201214

Hi all,

Please see attached planning documentation for the management of the Duling Fire on K'gari – 20201214.

- ICS 2 Situation Analysis and Background – updated
- ICS 3 Strategies – updated
- Incident Action Plan – updated
- SMEAC brief – sitrep.

Thanks,

Nathan

Nathan Connor

Principal Conservation Officer – Fire Management

Technical Services

Queensland Parks and Wildlife Service

Department of Environment and Science

M **Personal info**

SITUATION ANALYSIS - BACKGROUND & OBJECTIVES

Form ICS 2

Incident Name: Dulong Wildfire	Date Prepared: 13/12/2020	Time Prepared: 1200 hrs	Prepared By: Tom Beukers
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Values at Risk:

There are no current risks to Values, by the Dulong WF, beyond those that already existed.

There are potential risks to normal visitation for this time of year, given the current weather situation (see below) and the ability to re-open an area of the fireground that was the last area burnt.

This Fire has an extended history. It is now in a safe situation and its expected future management is as a level one incident as per the provisions of the Queensland Bushfire Plan based on current fire situation and future expected conditions and management requirements. The reasons for this status are as follows.

Containment: The fire is considered contained for the purposes of this transfer from QFES to QPWS on the following basis: The bushfire has a complete control line creating a blacked-out perimeter containing the bushfire to prevent any further reasonable spread of fire. This control line consists of:

- 1) Hard containment lines (tracks Roads and other navigable surfaces) where fire has actively been suppressed and blacked out to suppress any flame.
- 2) Non-flammable and fire-resistant barriers (e.g. beach and ocean)
- 3) Burnt edge containment where the fire has been repeatedly and extensively actively suppressed, particularly from the air with extensive water bombing of any detected hot spots (smoking stumps, visible flame and any other identified risks of breaching the burnt area)
- 4) This containment strategy has been effective such that there has been no significant fire activity or spread of the fire for a period of over 72 hours, no fire activity has been observed by aircraft observation flights for this same period and no fire activity has been detected through the CSIRO Sentinel hotspots satellite fire tracking system for a period of over 72 hours as at 10:37 on 12/12/2020 with the exception of the small area mentioned in 5 below.
- 5) A small area of fire activity has burnt in the very far north area of the island near Sandy Cape however this is effectively contained by sea and burnt ground and very low intensity fire activity only was observed on 11/12/2020 by aircraft observers and the most recent Sentinel hotspots were over 40 hours old as at 10:37 on 12/12/2020.

Constraints & Other Considerations:

Safe: The Duling wildfire is considered safe to transition back to QPWS on the following basis:

- 1) The fire has had little or no forward spread for a period of over 72 hours with the exception of a small area burning out to the ocean beach at Sandy Cape with no potential for further spread once it reaches the beach (note low intensity fire activity only was observed on 11/12/2020 by aircraft observers and the most recent Sentinel hotspot detections were over 40 hours old as at 10:37 on 12/12/2020).
- 2) The fire has been contained as per the above.
- 3) The fire has been extensively patrolled by both vehicle where accessible and by aircraft where not with potential hot spots actively suppressed.
- 4) QFES has conducted risk assessments in the areas where fire approached the communities of Happy Valley and the smaller asset areas to its south (The Oakes, Yidney Rocks).
- 5) The fire has been subject to rainfall and humid conditions which have further suppressed fire activity within the contained fire area in the last 24 hours.
- 6) The current forecast conditions at the time of handover include further widespread significant rain in excess of 40mm in coming days.
- 7) The predicted fire danger over the fire ground as assessed by FBAN for the 7 days from 12/12/2020 is forecast as low/moderate (independent of future rain).
- 8) For the above reasons the fire poses at date and time of transfer a very low to nil risk of impacting on any communities or infrastructure.

Expected future management requirements:

Management of this fire will now require a vigilant patrolling regime however active suppression is likely to be very limited given the likely . As such the future management of this fire is considered to be a level one incident.

Whilst QFES is transitioning control of this fire to QPWS it will continue to provide active support as a partner. This will include but not be limited to:

- 1) QFES NCR will provide a dedicated Liaison Officer in the QPWS Coordination Centre for up to 7 Days after transfer of bushfire.
- 2) QFES will provide QPWS access to its Fire Behaviour Analyst (FBAN) capability as a priority upon request from QPWS for up to 7 Days after transfer of bushfire and thereafter consistent with other emergent demands on this capability on an assessed priority basis through the FBAN on call process.
- 3) QFES will base 2 suitable aircraft at a suitable location for up to 7 days from transfer control of the bushfire to support mapping, identification of emergent hotspots, and provide air operations support to QPWS should a flare-up of the bushfire occur on Fraser Island
- 4) The local Rural Fire Brigades based on Fraser Island will also be available to support bushfire fighting operations should they be required.
- 5) QFES will provide access to any of its mapping and other data relevant to the management of this fire upon request by QPWS.
- 6) QFES will continue to positively consider any further requests from QPWS for capabilities which QFES holds which QPWS does not.

Reopening and Recovery

The reopening of the island and its recovery will be managed by QPWS. QFES will not undertake risk assessments or reopening and rehabilitation work on QPWS owned or managed lands.

LDMG and Butchella communities both kept informed and consulted on an ongoing basis.

Safety Risks & Hazards:

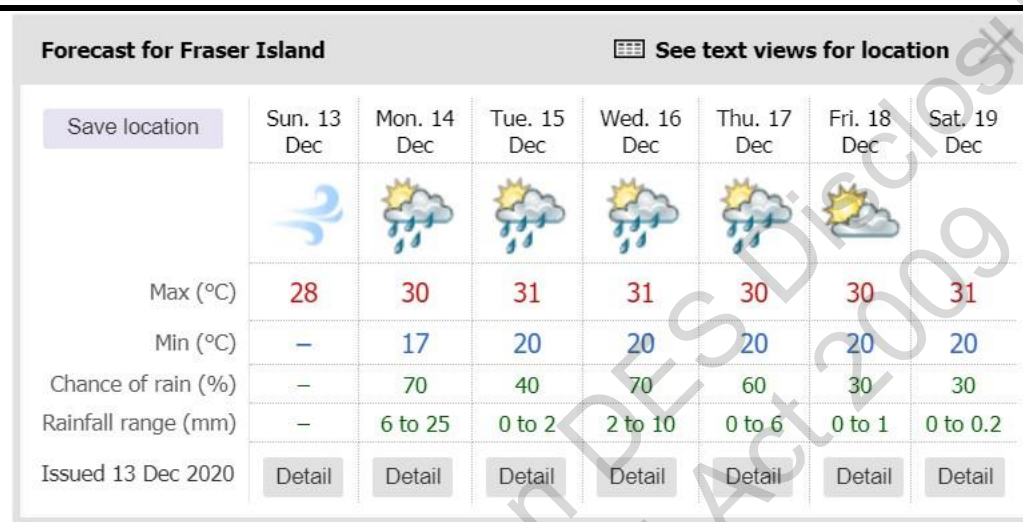
- Tides anticipated to be greater than HAT,
- Tree falls,
- Damaged road infrastructure,
- Weather: forecast high winds and rain.

Current Incident Behaviour:

Current situation

- The fire started on 14 October 2020 north of Orchid Beach township in the northern section of K'Gari
- The fire was allegedly started from an illegal campfire that had been improperly extinguished
- The fire area is currently 85,342 Ha (approximately 50% of K'Gari)
- The fire has been managed cooperatively by QPWS and QFES with support from the Butchulla Aboriginal Corporation (BAC), QPS and QAS
- Control of the fire was transferred to QFES on 27 November 2020 with support from QPWS and partners.
- Resources to date
 - o 264 personnel (OMS data)
 - o 143 appliances dispatched through FireCom
 - o 28 aircraft have dropped a total of 11, 254,200 litres (fresh & sea water & gel)
- As at 12 December 2020 the risks associated with the fire have reduced significantly due to the onset of the wet weather associated with a deep low-pressure system impacting SE Qld.
- The fire behavior has continued to be mild with all hot spots detected being within the burnt area.
- No fire spread has been observed from the fire beyond the burnt edge for over the last 24 hrs.

Weather



Weather outlook

- Heavy rainfall, damaging winds, abnormally high tides and dangerous surf conditions are forecast to develop around southeast Queensland during Sunday and will continue into Monday – a Severe Weather Warning is current.
- Flash flooding will be an increased risk around southeast Queensland in the coming days, particularly if any heavy rain happens to occur about the high tide of any tidally influenced creeks or streams.
- Large waves are expected to develop about the southeast Queensland coast from Sunday and in combination with the abnormally high tides may lead to significant coastal erosion/beach scour.
- A Flood Watch is current for coastal and adjacent inland catchments between Fraser Island and the Qld/NSW border.
- Some locations in southeast Queensland may experience impacts equivalent to a category 1 tropical cyclone or an East Coast Low over the coming days.

Comments & Outlook:

The activation of the recovery plan will be heavily dependent on the results of the current weather event over the next three days.

Incident Management restructure includes:

- QFES handing control of the Duling WF to QPWS as of approx. 1200 13/12/2020
- Fire ground control is converting from East and West Div Comm (and subordinate Sectors) to East Sector and West Sector in conjunction with the QFES to QPWS handover.

See proposed closure area map below.

Incident Objectives:

Protect life, property, cultural and environment on K'Gari (Fraser Island).

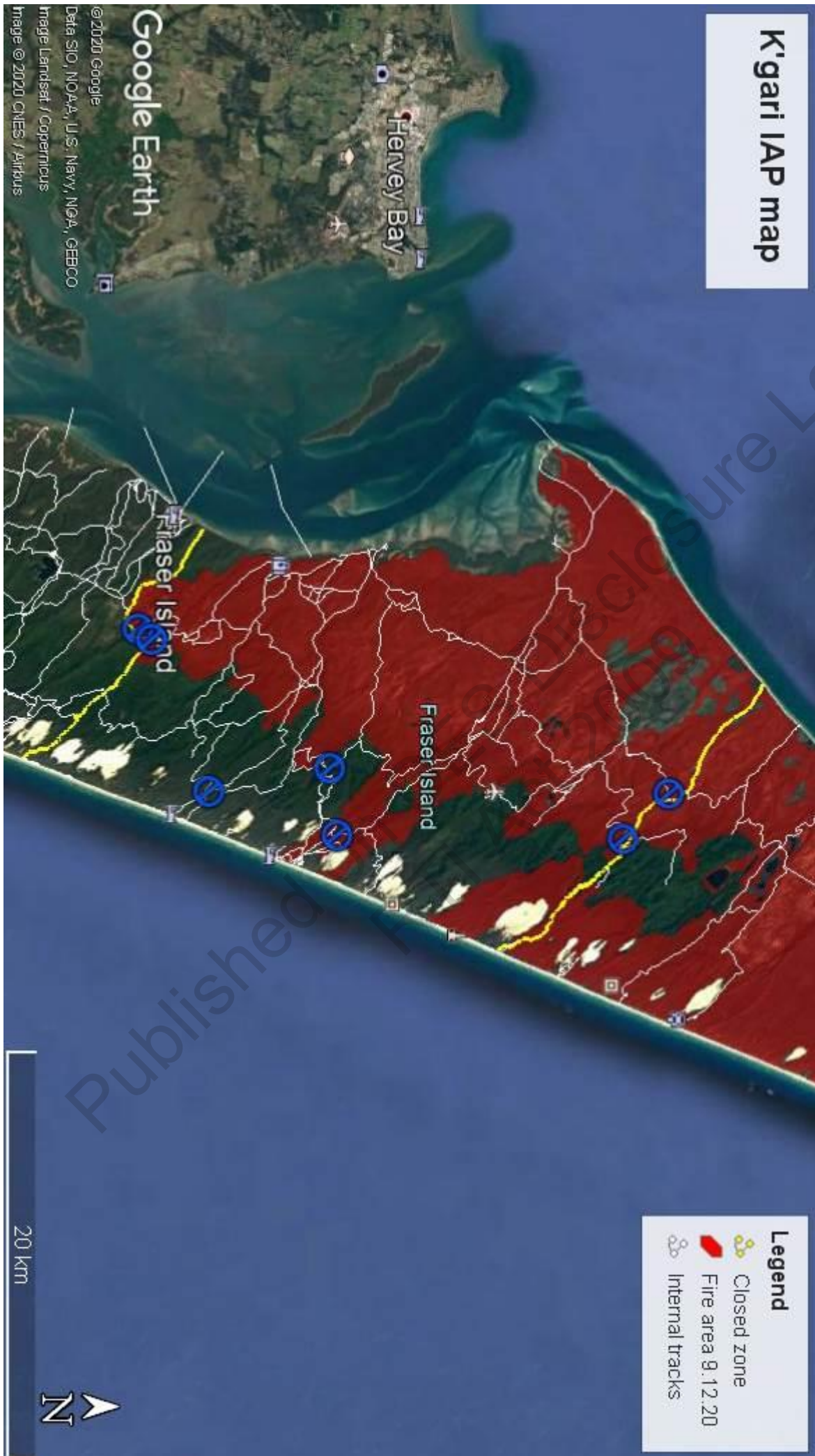
Contain fire activity in the landscape at a safe level.

Implementation of recovery and reopening of previously affected areas.

Support economic and social recovery of K'gari and associated communities

Published on DES Disclosure Log
RTI Act 2009

K'gari IAP map



Incident	Action Plan Authorised by Deputy IC (signed): Nathan Connor. Time XX00hrs. Date 11/12/2020 for Shift 0700 1423 December 2020 to 1800 1428 December 2020 Sitreps at 0800 hrs. 1200hr , 16700hr or by exception.	Incident Name: Duling Bushfire	Update No:
	Prepared by: Operations/Planning at 13301000 hrs. Date 141 /12/2020	Location: Fraser Island	<u>86</u>

S**Situation Summary** (location, fuels, current status, predicted behaviour, values at risk, impact time, closures. Add map, Form ICS 6 Structure and Comms Plan. Add QPWS FA Web Report if appropriate.)

Fire has been burning ~~from in the~~ the northern end of K'Gari island since 14th Oct.

Transfer of control to QFES effective as at 1100hrs 27/11/2020. Control ~~has been is likely to be~~ returned to QPWS by QFES on ~~Sunday Monday~~ ~~Sunday 13134~~/12/2020 under conditions that the fire has been contained and deescalated to a Level One incident.

Weather conditions ~~deteriorating~~ significantly beginning Saturday night 12/12/2020. Trough forming off east coast forecast to generate heavy rainfall, strong winds and large swell combined with above average tides.

Significant public interest in the reopening of key access tracks exists from local residents/businesses.

K'Gari has been closed to any new visitors as of 28/11/2020. An approved recovery plan has been developed to allow for a staged reopening of the island and visitor infrastructure.

The priority is to ensure public and firefighter safety

Weather – See Attached SABRE forecast

Spot forecast to be issues and emailed 7am Sunday

Forecast for Fraser Island

See text views for location

Forget location

	Mon. 14 Dec	Tue. 15 Dec	Wed. 16 Dec	Thu. 17 Dec	Fri. 18 Dec	Sat. 19 Dec	Sun. 20 Dec
Max (°C)	30	31	31	31	31	31	31
Min (°C)	—	20	21	21	21	21	21
Chance of rain (%)	—	50	50	60	30	20	40
Rainfall range (mm)	—	0 to 3	0 to 4	0 to 6	0 to 0.4	0	0 to 2
Issued 14 Dec 2020	Hide	Detail	Detail	Detail	Detail	Detail	Detail

Monday

	1.00 AM	4.00 AM	7.00 AM	10.00 AM	1.00 PM	4.00 PM	7.00 PM	10.00 PM
Temperature (°C)	—	—	—	27	30	27	22	21
Wind direction	—	—	—	SSE	NE	NNE	N	NNE
Wind speed	—	—	—	13	20	17	17	20
km/h knots								

Forecast for Fraser Island

See text views for location

Save location

	Fri. 11 Dec	Sat. 12 Dec	Sun. 13 Dec	Mon. 14 Dec	Tue. 15 Dec	Wed. 16 Dec	Thu. 17 Dec
Max (°C)	29	29	28	30	31	30	31
Min (°C)	—	20	19	18	21	21	21
Chance of rain (%)	—	80	90	60	40	50	40
Rainfall range (mm)	—	5 to 10	25 to 50	4 to 25	0 to 5	0 to 10	0 to 4
Issued 11 Dec 2020	Detail	Detail	Detail	Detail	Detail	Detail	Detail

Losses (Area burnt, Losses/injuries/damage, Closures)

Minor damage to QPWS fire vehicles.

One contractor Positrack mechanically disabled TBC.

One unknown shed structure received minor damage observed by aerial QFES surveillance in the Bagimba Bogimbah Road area (Western Division)

Bridge lost into Valley of Giants

M	Incident Objectives (from ICS 2) Protect life, property, cultural and environment on K'Gari (Fraser Island). Contain fire activity in the landscape at a safe level within control lines . Implementation of recovery and reopening of previously affected areas. Support economic and social recovery of K'gari and associated communities										
E	Division/Sector Name Strategies/tactics (ICS 3)		Work to be done (Can it be done?)				Resources Allocated				
							resource name	people	fire units	other vehicles	Plant / other (type)

S	<p>Critical Issues (Warnings, alerts, resource needs)</p> <p>Priority remains the protection of life and property—particularly the communities of KBVR and Happy Valley (under control of Deputy IC Asset Protection). Fire control lines may be difficult to traverse due to damaged infrastructure, fallen trees, erosion. Visitor and fire crew welfare is to be considered in all movements around the island.</p> <p>Staged reopening of island access and infrastructure may need to be reassessed following east coast low event in the next few days.</p> <p>Severe weather may impact beaches, access roads, and inland areas. All crews need to aware of risk of tree fall.</p> <p>Driving may be treacherous, specifically on the eastern beach over the coming days with the prediction of Highest Astronomical Tides (HAT) from Saturday through to Monday the 14th.</p> <p>Some critical infrastructure may have been damaged that will safe access to areas.</p>		

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SITUATION ANALYSIS – STRATEGIES

Form ICS 3

Incident Name: <u>Duling Bushfire</u>	Date Prepared 14/12/2020	Time Prepared 0900 hrs	Prepared By: Dan Witten
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Objective (1 per form)

- Protect life, property, cultural and environment on K'Gari (Fraser Island). Contain fire activity in the landscape at a safe level. Implementation of recovery and reopening of previously affected areas – see Attachment 1.

Strategies	Alternative 1	Alternative 2	Alternative 3
Description of Strategies	Retain fire at Level 1 status. Containment/monitoring of fire within existing lines and restructure of sectors. Facilitate attached recovery plan within associated timelines.	Retain fir at Level 1 status. Containment/monitoring of fire within existing lines. If severe impacts of forecast weather for Sunday the 13 th November eventuate, facilitate revised recovery plan that reflects current situation.	Do nothing
Defensive/Offensive – (Direct/Indirect/ Parallel Attack)	Monitor and black out as required – assess assets inline with the recovery plan priorities		N/A
Designate Flanks, Areas or Other Detail	Divisions will reduce to sectors as per TBC updated org chart.	Divisions will reduce to sectors as per attached updated org chart – Attachment 2.	N/A
Resources Required	4 x light attack (2 on Eastern Div, 2 on Western Div) Heavy plant strengthening containment lines and blacking out	4 x light attack (2 on Eastern Div, 2 on Western Div) Heavy plant strengthening containment lines and blacking out	
Est. Date & Time of Control	Fire monitoring ongoing. Reopening plan TBC by COB Monday the 14 th December.	Fire monitoring ongoing. Reopening plan TBC by COB Monday the 14 th December.	Ongoing
Est. Size at Control			
Est. Cost at Control			
Probability of Success (H/M/L)	H	H	Not applicable

EFFECT KEY (EK): “-“= NEGATIVE, “+” = POSITIVE, “0” = NEUTRAL

CONSIDERATION	EK	COMMENTS	EK	COMMENTS	EK	COMMENTS
Safety	+	Fire to be constantly monitored until declared out	-	Fire to be constantly monitored until declared out		Safety concerns remain outside of active fire danger – tree fall, access impediments.
Damage/Losses	+	No change	-			Un monitored fire could reignite and impact on infrastructure/access roads
Economics 20-206	0	Ongoing interregional QPWS support	+	Ongoing interregional QPWS support		Continue economic strain on community

					and associated businesses.
Soil Erosion	0		0		
Water/Aquatic	0		0		
Vegetation	+		0		
Wildlife	+		0		
Recreation	+	Public confidence in a staged opening provides certainty for residents and commercial operators on resuming business	-	Ongoing uncertainty of reopening schedule for residents and businesses	
Disease	0		0		
Other - Political	0	Staged reopening allows certainty and less pressure from the public	-	Continued uncertainty on opening and public safety will translate to political pressure for action	

Decision: Alternative 1 is selected because

Forecast rain has a high likelihood of suppressing fire behaviour.

Containment lines are being further strengthened as a result.

Staged reopening in line with the recovery plan can run concurrently with fire monitoring.

Approved by IC (signed):

Personal information

Time hrs



FIRE OPERATIONS BRIEFING

- This form provides a standardised format for operational briefings, provides prompts for inclusion, and is to be retained as a record of the briefing.
- SMEACS element inclusions can be modified to suit local factors.
- It can be used as an Incident Action Plan for smaller incidents with the addition of a fire incident map, more detailed Mission and Execution elements, and Incident Structure / Communications chart.

INCIDENT NAME: *Duling*

DATE: 14/12/2020

TIME: 0900

GROUP BEING BRIEFED: ICC

PREPARED FOR OPERATIONAL PERIOD

From: 0700

To: 1900

Prepared by: Dan Witten

SITUATION

QFES to QPWS transfer of control arrangements effective as of 1200hrs Sunday the 13th December. IMT relocated to Maryborough QPWS office.

Fire has received steady rain over past 36 hours with an average of around 40mm across the south of the island. The north has received less.

Fire detection problematic owing to no-fly conditions for aircraft and low cloud impeding satellite detection –both indicators of significantly eased conditions.

Weather:

Severe Weather Warning issued this morning for damaging winds, Abnormally High Tides and Dangerous Surf.

Showers over fire ground overnight. 17mm recorded at Eurong. Large tides and low visibility.

High risk of tree fall and restricted access during this period that may trigger removal of crews from fire ground.

Peak weather:

Forecast for Fraser Island

See text views for location

Save location

Mon. 14 Dec

Tue. 15 Dec

Wed. 16 Dec

Thu. 17 Dec

Fri. 18 Dec

Sat. 19 Dec

Sun. 20 Dec

Max (°C)

30

31

31

31

31

31

31

Min (°C)

—

21

21

21

21

21

21

Chance of rain (%)

—

50

50

60

30

20

30

Rainfall range (mm)

—

0 to 3

0 to 3

0 to 5

0 to 0.4

0

0 to 1

Issued 14 Dec 2020

Hide

Detail

Detail

Detail

Detail

Detail

Detail

Monday

1.00 AM

4.00 AM

7.00 AM

10.00 AM

1.00 PM

4.00 PM

7.00 PM

10.00 PM

Temperature (°C)

—

—

24

29

30

27

22

21

Wind direction

—

—

S

SSE

NE

N

NNE

NNE

Wind speed

—

—

13

11

24

24

17

20

☒ km/h

☐ knots

Forecast for Fraser Island

See text views for location

Save location

	Mon. 14 Dec	Tue. 15 Dec	Wed. 16 Dec	Thu. 17 Dec	Fri. 18 Dec	Sat. 19 Dec	Sun. 20 Dec
Max (°C)	30	31	31	31	31	31	31
Min (°C)	—	21	21	21	21	21	21
Chance of rain (%)	—	50	50	60	30	20	30
Rainfall range (mm)	—	0 to 3	0 to 3	0 to 5	0 to 0.4	0	0 to 1
Issued 14 Dec 2020	Detail	Hide	Detail	Detail	Detail	Detail	Detail

Tuesday

	1.00 AM	4.00 AM	7.00 AM	10.00 AM	1.00 PM	4.00 PM	7.00 PM	10.00 PM
Temperature (°C)	21	21	26	31	31	30	24	23
Wind direction	NNE	NNE	N	N	N	NNE	NE	NE
	↙	↙	↓	↓	↓	↙	↙	↙
Wind speed	15	13	13	24	22	22	11	11
☒ km/h ☐ knots								

WEST SECTOR

- No active fire detected along solid containment lines to south. Considered contained.
- Heavy plant work continuing to consolidate southern containment and fall-back lines. Wangoolba-Eurong road work completed.
- QPWS loader relocated to Northern Rd/Cornwells Rd intersection
- Bridge burnt out at entrance to Valley of the Giants

EAST SECTOR

- Ground crews continuing to inspect roads/assets and provide agency presence.
- Contract loader parked at Happy Valley to be deployed for opening access routes if needed.

MISSION	<p>WEST SECTOR:</p> <ul style="list-style-type: none"> - Protect public north of Wangoolba rd/Eurong rd. - Keep fire to the north of Dundonga firebreak/Cornwells Road. - Continue to sweep roads if safe to do so. - Enact recovery plan where safe <p>EAST SECTOR:</p> <ul style="list-style-type: none"> - Protect public on eastern beach north from Eurong to Cathedral Resort area. - Significant cultural information - Butchulla people - Butchulla people - Enact recovery plan where safe to do so
EXECUTION	<p>WEST SECTOR: Kingfisher / McKenzie Sector:</p> <ul style="list-style-type: none"> - (3xLight attack) - Continue to assess and clear access where safe to do so. - Continue machinery work on Wangoolba-Eurong Rd and Cornwells Road as required. <p>EAST SECTOR:</p> <ul style="list-style-type: none"> - (1xLight attack). - Positrack to continue grooming and tidying on Nth side Wangoolaba rd from Eurong to the Wangoolaba barge landing. <p>IMT</p> <ul style="list-style-type: none"> - Planning for enaction on recovery plan. - Now working out of Maryborough Office
ADMINISTRATION	<ul style="list-style-type: none"> - Sitreps 0900 and 1600 daily. - 8am and 4pm briefs - IAP prepared at 7pm for following day.
COMMAND	<p>ICC – Maryborough Incident Controller – Nathan Connor QPWS QPWS Operations –Dan Witten Personal information QPWS Planning – Tom Beukers Personal information QPWS Logistics – Kerrie Must James Kuske DIV EAST Eurong 07 4127 9128) Scott Buttsworth DIV WEST Eurong Personal information Ash Dickson DIV Happy Valley Personal information Adrian Massingham DIV Kingfisher Personal information</p>
SAFETY	<p>VERY HIGH RISK TREE FALL crew working in burnt areas to be vigilant, constant risk assessment required and/or cease activities if risk perceived to great.</p> <ul style="list-style-type: none"> - Crews to be aware of areas of soft sand with increased fireline traffic. - Access to Valley of the Giants for ground crews closed due to fire damage to timber bridges. - Increasing swell combined with high tides will affect access on eastern beach
OTHER	<p>Cultural Heritage</p> <ul style="list-style-type: none"> • On ground prep works utilising heavy plant require endorsement from Butchulla liaison and cultural advisors to be utilised on site as required. <p>Local Disaster Management Committee</p> <ul style="list-style-type: none"> • LDMG kept informed on an informal basis regarding reopening and recovery of K’Gari – Marc Dargusch leading. •

Date : 24/11/2020 1:34:22 PM

From : "CAMBOURN Neil"

To : "KLAASSEN Ben" , "HEAD Damien" , "SPINKS Troy" , "HARRIS Leigh"

Subject : FW: Duling Wildfire K'Gari 24/11/2020 as at 1230

Attachment :

201124_DulingWildfire_IMT_Structure_A3.pdf;image001.jpg;image002.jpg;image003.png;image005.png;image006.png;image008.png;

Ben apologies for delay. No mention of imminent takeover by QFES as indicated by Leigh/ Troy but team indicate support for that below.



Neil Cambourn

Assistant Director-General

Queensland Parks and Wildlife Service and Partnerships

Department of Environment and Science

P 07 3199 7518 M **Personal and Confidential**

Level 5, 400 George Street, Brisbane QLD 4000

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>

Sent: Tuesday, 24 November 2020 1:32 PM

To: HEAD Damien; CUBIS Mick; CAMBOURN Neil

Subject: FW: Duling Wildfire K'Gari 24/11/2020 as at 1230

Hi Mick/Damien/Neil - Situation @ 1300hrs 20201124:

- The main fire continues to move in a south easterly direction with poor fire weather conditions on the island.
- The community of Happy Valley is potentially under threat within the next 24hrs **although** the latest mapping and predictions indicate this threat has abated with an improved forecast. QFES, RFS, QPWS and QPS, Ambulance are working together to prepare the community. It is worth noting that the fire has not yet exited the closed forest into the dryer eastern vegetation types.
- Forecast wind change easterly at about 4.00am 25/11/2020 will further lessen the current risk to Happy Valley.
- Fire to the south has now just over the Bogimbah Track.
- Other sectors:
 - Active fire at the north of the island at Sandy Cape sector is being monitored.
 - Cathedral Beach sector is blacking out.
- IMT has relocated and ramped up (refer attached pdf) to Rainbow Beach. Nathan Connor is now the IC.
- Divisional control is operating out of QPWS Dundabara.

Given the fire proximity to Happy Valley (and smaller communities to south including Yidney Rocks etc) + Kingfisher Bay Resort the current QPWS run IMT would be comfortable with QFES taking control if QFES happy to attempt to utilise the Smith-Poyungun Road as the southern control line & have QPWS on IMT with them.

Some fire predictions are contained below.

Regards, Marc



Marc Dargusch

Principal Ranger – Great Sandy Area

Coastal and Islands Region | QPWS and Partnerships

Department of Environment and Science

M **Personal and Confidential** P 07 54869960

Level 6, 12 on First Avenue, Maroochydore 4558

www.des.qld.gov.au

I give my respect to the traditional and custodial Aboriginal and Torres Strait Island Elders and Owners of the Land in which I work, live and walk.

Predicted fire spread details below as sourced from QFES FBAN imbedded in IMT Rainbow;

Fire spread prediction generated this morning for Fraser Island - Happy Valley.

The image below is for 14:00 hrs today & 0100 hrs Wednesday. The Simulation runs through to 25th November in the attached KMZ file, but this will be revised throughout today as new mapping is made available.



Fire Spread to 14:00hrs 24-11-20



Fire Spread to 0100hrs 25th Nov 2020

Assumptions used to develop this prediction:

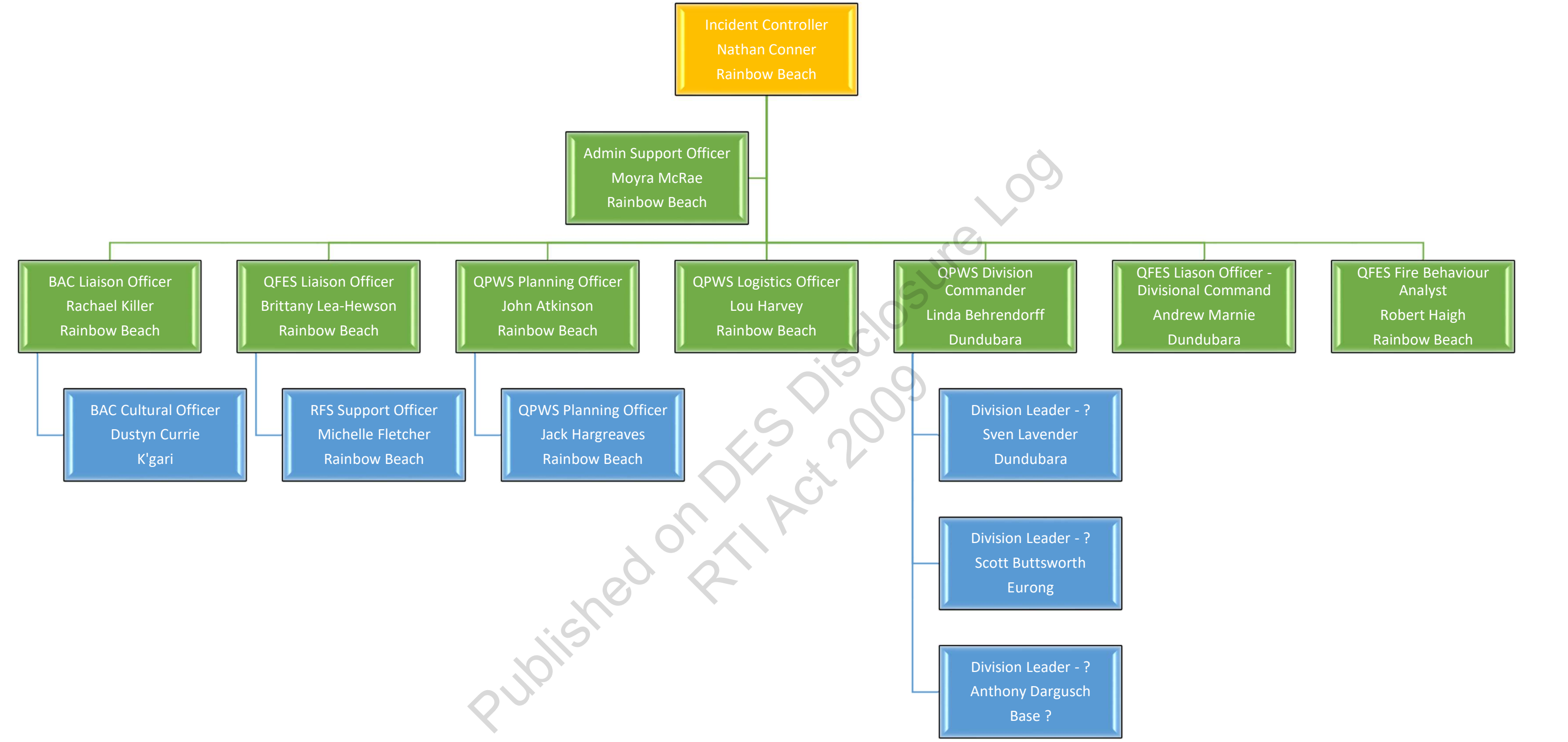
- Active fire edge as determined by Air Obs at 08:20hrs 24-11-20 have been used.
- No active fire suppression is being undertaken.
- No additional backburning has been undertaken.
- Phoenix standard inputs have not been adjusted.
- Weather is from BOM grids downloaded this morning.



John Atkinson
Senior Project Officer
Fire Team | Queensland Parks and Wildlife Service
Department of Environment and Science
P 07 4999 8533 | E John.Atkinson@des.qld.gov.au
Level 5 | 44 Nelsen Street | Mackay

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RTI Act 2009

Incident Management Team - Duling Wildfire, Kgari



Date : 20/10/2020 12:07:39 PM

From : "CAMBOURN Neil"

To : "KLAASSEN Ben"

Subject : FW: FMP/tactics for Duling CZ Wildfire

Attachment : Some intelligence information for Fraser Island North End Bushfire;image001.png;image002.png;image003.png;image004.png;image005.png;image006.png;image007.png;image009.png;image011.png;

Ben some anxieties from a local QFES officer attempting to pressure our guys into backburning in extreme risk conditions on the K'gari fire.

I have just had a meeting with Mick, Marc, Leigh and Troy to discuss our plan and strategy.

We will not be backburning at this point, and will continue maintaining a watching position.

QFES updated advice attached.

Neil



Neil Cambourn

Assistant Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science

P 07 3199 7518 M **Person**
Level 5, 400 George Street, Brisbane QLD 4000

From: CAMBOURN Neil

Sent: Tuesday, 20 October 2020 10:34 AM

To: CUBIS Mick; DARGUSCH Marc; HARRIS Leigh; SPINKS Troy

Subject: FW: FMP/tactics for Duling CZ Wildfire

fyi



Neil Cambourn

Assistant Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science

P 07 3199 7518 M **Person**
Level 5, 400 George Street, Brisbane QLD 4000

From: CAMBOURN Neil

Sent: Tuesday, 20 October 2020 10:33 AM

To: James Haig

Subject: FW: FMP/tactics for Duling CZ Wildfire

Hi James, as discussed, the interactions are in the email below re the K'gari fire.

Our guys are getting unwarranted pressure from local officer Andrew Marnie to back burn around Orchid Beach township in conditions that are prescribed in the BOM advice received from QFES as "Backburning is not advised/ extremely risky".

As per our discussion, should there be any risk to Orchid Beach life or property this matter needs to be led by QFES as the State's lead for fire where it threatens life and property.

The fact that QFES have advised they don't want to lead this fire, we assume that life and property is not currently under threat and we will continue to work as the Incident Control to attempt to manage the bushfire in the landscape.

The advice on the water bombing aircraft being deployed to assist this morning, and your offer to provide the predictive modelling to our IC is appreciated thanks.

Thanks, Regards Neil



Neil Cambourn

Assistant Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science

P 07 3199 7518 M **Person**
Level 5, 400 George Street, Brisbane QLD 4000

From: CUBIS Mick <Mick.Cubis@des.qld.gov.au>

Sent: Tuesday, 20 October 2020 9:45 AM

To: CAMBOURN Neil

Cc: HEAD Damien; DARGUSCH Marc

Subject: FW: FMP/tactics for Duling CZ Wildfire

Neil,

QFES response fyi.

Mick Cubis

Regional Director, Coastal and Islands Region
GBRMC | QPWS & Partnerships
Department of Environment and Science

P: 07 54471137 M **Person**
240 Moorindil Street, Tewantin
Qld 4565
mick.cubis@des.qld.gov.au

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>

Sent: Tuesday, 20 October 2020 9:39 AM

To: CUBIS Mick

Subject: FW: FMP/tactics for Duling CZ Wildfire

Mick – post latest request to 'stop lighting'. A chronology relating to the tactics decision for Tuesday 20Oct2020 sits below:

9.09am Call from Mick Cubis – okay to start light-up due to 'life and property issue' as unable to get onto ED/ADG.
9.12am I rang James Kuskie (QPWS-IC) to 'start lighting' and work with QFES to undertake as per joint plan.
9.13am I rang for Andrew Marnie (QFES) but he was on another call. Left msg to call me.
9.17am Call from Mick Cubis – stop lighting advice from ADG, unless QFES take ownership of fire effort.
9.18am Andrew Marnie (QFES) rang back - I let him know we needed to stop light-up and the only option to continue with light-up tactic today was for QFES to take control of the fire.
9.20am I rang James Kuskie as IC to 'stop lighting'.
9.22am Andrew Marnie (QFES) rang back again – QFES will definitely not be taking control of the fire and he asked for contact point for ADG so that his hierarchy could interact at level. He also asked for information about who was who in line management and where our ADG sat within the system.

Andrew has requested QPWS stance be put in writing.

Regards, Marc



Marc Dargusch

Principal Ranger – Great Sandy Area
Coastal and Islands Region | QPWS and Partnerships
Department of Environment and Science

M **Person** P 07 54869960
Level 6, 12 on First Avenue, Maroochydore 4558
www.des.qld.gov.au
I give my respect to the traditional and custodial Aboriginal and Torres Strait Island Elders and Owners of the Land in which I work, live and walk.

From: DARGUSCH Marc

Sent: Tuesday, 20 October 2020 9:07 AM

To: CUBIS Mick

Subject: RE: FMP/tactics for Duling CZ Wildfire

Hi Mick – anything I can do to assist in getting timely decision ?

Ta, M

From: DARGUSCH Marc
Sent: Tuesday, 20 October 2020 8:22 AM
To: CUBIS Mick
Subject: RE: FMP/tactics for Duling CZ Wildfire

Mick – Just had call from Andrew Marnie. He has approval from QFES side (Peter Hollier) to backburn behind the Orchid Beach township ASAP on the basis of protecting life and property. They want to commence at 9am.

I'll call you.

Regards, Marc

From: DARGUSCH Marc
Sent: Tuesday, 20 October 2020 8:02 AM
To: CUBIS Mick
Subject: FW: FMP/tactics for Duling CZ Wildfire

Hiya – wildfire factors have changed overnight. The fire has advanced significantly to the east across K'gari (nearly to Corroboree Beach) which exposes Orchid Beach to the southerly wind change (refer hotspot maps at bottom of email).

Anyways – I've talked with Andrew Marnie (QFES) and he is currently packaging up things from his side which I will send through. It is highly likely that QFES will want to burn due to threat to life and property.

Talk more soon.

Regards, Marc

From: DARGUSCH Marc
Sent: Tuesday, 20 October 2020 7:38 AM
To: LAVENDER Sven; KUSKIE James
Cc: YETMAN Brendon; DARGUSCH Anthony
Subject: FW: FMP/tactics for Duling CZ Wildfire

Guys – just flagging that there is currently **no approval** to put fire into the Duling CZ wildfire.

I've spoken with Andrew Marnie (QFES) and we both acknowledged that we need both organisations (QFES/QPWS) to give nod to backburning at Exec level prior to light-up as some of the factors that drive the need to backburn are diametrically opposed:

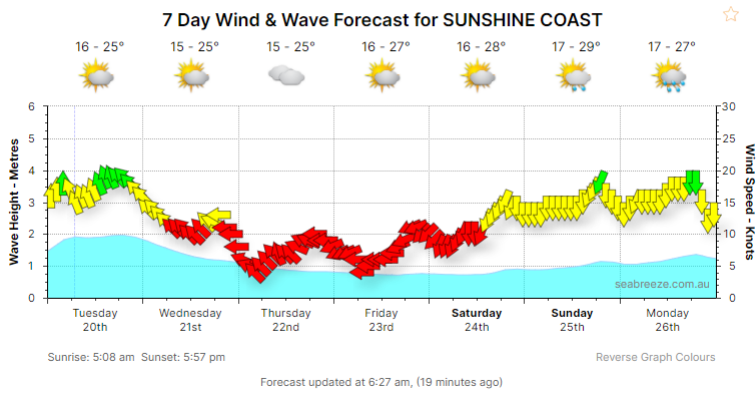
The case for no backburning includes:

Choose Wildfire or HRB
Wildfire Behaviour Guidance

3 Day Look Ahead - Daily Peak Wildfire Behaviour Guidance in the Vicinity of
FRASER ISLAND in NORTH COAST Region, MARYBOROUGH Rural Area assuming Heath & Shrubland Fuel

Monday, 19 October 2020	With a forecast peak daily fireline intensity of 8566kW/m in Heath using the Advanced Heath rate of spread model, Direct Attack on the head fire is potentially UNSAFE / backburning is potentially RISKY. Fire behaviour is likely to be a highly vigorous, rapidly spreading surface fire with an estimated peak daily forward rate of spread of 1764m/hr, exhibiting regular torching (or passive crown fire, with possible periodic crowning). Heath fuels are more resistant to changes in humidity and may continue to burn overnight and in high humidity. Heath is also a threshold fuel, which means it may not carry vigorous fire until the wind reaches a threshold, and then it can rapidly intensify and spread.
Tuesday, 20 October 2020	With a forecast peak daily fireline intensity of 10428kW/m in Heath using the Advanced Heath rate of spread model, Direct Attack on the head fire is UNSAFE / backburning is NOT ADVISED/EXTREMELY RISKY. Fire behaviour is likely to be a dangerous, extremely vigorous, very rapidly spreading surface fire with an estimated peak daily forward rate of spread of 2147m/hr, with the potential for active and long period crowning. Heath fuels are more resistant to changes in humidity and may continue to burn overnight and in high humidity. Heath is also a threshold fuel, which means it may not carry vigorous fire until the wind reaches a threshold, and then it can rapidly intensify and spread.
Wednesday, 21 October 2020	With a forecast peak daily fireline intensity of 8593kW/m in Heath using the Advanced Heath rate of spread model, Direct Attack on the head fire is potentially UNSAFE / backburning is potentially RISKY. Fire behaviour is likely to be a highly vigorous, rapidly spreading surface fire with an estimated peak daily forward rate of spread of 1769m/hr, exhibiting regular torching (or passive crown fire, with possible periodic crowning). Heath fuels are more resistant to changes in humidity and may continue to burn overnight and in high humidity. Heath is also a threshold fuel, which means it may not carry vigorous fire until the wind reaches a threshold, and then it can rapidly intensify and spread.

Sunshine Coast Weather Forecast



Elders Rural Services Insurance Real Estate Home Loans China Inv

FORECAST **RADARS & MAPS** **WARNINGS** **DAM LEVELS** **CLIMATE**

Updated at 00:40 CST

22.0°C ↑ Feels like 22.4°C

Clearing shower 17°C 27°C 40% < 1mm

Orchid Beach for Tuesday
Partly cloudy. Slight chance of a shower, most likely in the late morning and afternoon. The chance of a thunderstorm from late this morning. Winds NE/SE 15 to 20 km/h becoming light in the morning then becoming E/NE 15 to 25 km/h in the middle of the day. Daytime maximum temperatures around 30.

Fire Danger
High

DAM LEVELS

ORCHID BEACH 7 DAY FORECAST 28 DAYS RAINFALL 12 MONTHS RAINFALL NEXT 48 HOURS

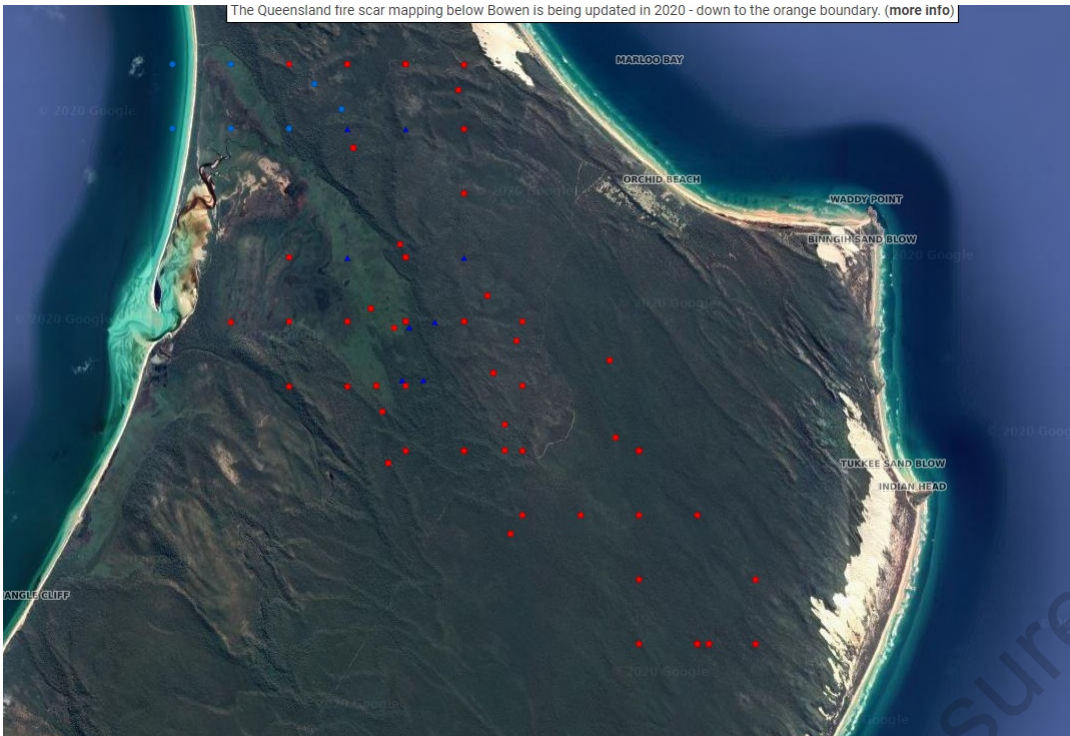
	TUE Oct 20	WED Oct 21	THU Oct 22	FRI Oct 23	SAT Oct 24	SUN Oct 25	MON Oct 26
Summary	Clearing shower	Mostly sunny	Mostly sunny	Mostly sunny	Mostly cloudy	Mostly cloudy	Heavy showers
Maximum	27°C	27°C	27°C	28°C	28°C	29°C	28°C
Minimum	17°C	16°C	16°C	17°C	18°C	19°C	19°C
Chance Of Rain	40%	40%	30%	10%	60%	90%	90%
Rain Amount	< 1mm	< 1mm	< 1mm	< 1mm	< 1mm	20-40mm	20-40mm
UV Index	Very High	Very High	Extreme	Extreme	-	-	-
Frost Risk	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	9am 3pm	9am 3pm	9am 3pm	9am 3pm	9am 3pm	9am 3pm	9am 3pm
Wind Speed	18 km/h 25 km/h	15 km/h 20 km/h	12 km/h 15 km/h	13 km/h 18 km/h	19 km/h 20 km/h	21 km/h 22 km/h	14 km/h 18 km/h
Wind Direction	SSE SE	SE ESE	E ENE	ENE NE	NNE NNE	N N	N NE
Relative Humidity	75% 75%	70% 70%	70% 68%	70% 71%	74% 74%	85% 84%	87% 86%

HERVEY BAY MARYBOROUGH BUNDABERG LADY ELLIOT ISLAND

The case for backburning includes:

The fire has advanced significantly overnight towards east coast meaning that there is a real threat to Orchid Beach if winds are from South.

The Queensland fire scar mapping below Bowen is being updated in 2020 - down to the orange boundary. ([more info](#))



Digital Earth Australia Hotspots



I'll continue to liaise with Andrew and QPWS hierarchy to determine a way forward. Do not put fire in block until this is sorted.

Thanks for continued work. My mobile is on if you need to talk.

Regards, Marc

Date : 20/10/2020 11:44:29 AM
From : "James Haig"
To : "CAMBOURN Neil"
Cc : "Michael Wassing" , "John Bolger"
Subject : Some intelligence information for Fraser Island North End Bushfire
Attachment : Fire Behaviour Summary by Incident Fraser Island 20 10 2020.pdf;IDQ20102.pdf;Fraser updated 20201020.pdf;image001.jpg;

Hi Neil, please find attached some information on the Fraser Island Fire. To give some clarity the attachments are (in order):

- A Fire Behaviour Snap Report ♦ Fire Behaviour Summary prepared by QFES Predictive Services Unit prepared this morning which covers some of the key fire behaviour parameters. The report runs until Friday.
- A site specific weather forecast from the Bureau of Meteorology from Yesterday but also covering today. I understand an updated forecast has also been requested for preparation today. Please be aware
That during the conversation with the senior meteorologist at the BoM, PSU was informed that the SE wind change originally forecast for later this morning in the yesterday ♦s forecast arrived early to the fire ground this morning (I understand it may have been by 06:00 but not sure. This is good as it will reduce the westerly spread of the fire towards Orchid Beach.
- A copy of a the fire mapping from QFES mapping system (TOM) from this morning.

Additionally, as discussed over the phone, QFES will be undertaking a Large Air Tanker water drop on the fire this morning in coordination with the ground incident management. This is a regular testing run for the DASH 8 size aircraft based at Bundaberg.

I do not know whether the Incident Control Team has requested a detailed Phoenix fire prediction but, should this be required, it can be done through the QFES liaison in the IMT or direct. Certainly QFES Predictive Services Unit is very happy to support such predictive planning that the IMT requests. I understand that there has been liaison with this unit already on this fire although a full prediction may not have been done, if desired this can be done by IMTs (including QPWS only IMTs) by calling 3635 1808.

Regards

James

James Haig
Superintendent
Executive Manager Bushfire Mitigation
Office Of Bushfire Mitigation, Rural Fire Service
Queensland Fire and Emergency Services
P 07 3635 3883 M Personal info



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All reasonable precautions will be taken to respect the privacy of individuals in accordance with the Information Privacy Act 2009 (Qld).



STEP 1 - Select Incident
QF4-20-116117 FRASER ISLAND

STEP 2 - ROS Model
Heath & Shrubland

STEP 3 - Forest Fuel Load (t/ha)
10.00t/ha

Published by QFES Predictive Services Unit (PSU). For assistance, further predictive products or expert fire behaviour advice call (All Hours) (07) 3635 1808 or e-mail PSU@qfes.qld.gov.au

STEP 4 - Heath Height (m)
1.0m

STEP 5 - Slope (Degrees)
0Deg

Fuel load selector only used Forest Model
Heath Height only used in Heath Model

Incident SNAP Fire Behaviour Summary for QF4-20-116117 FRASER ISLAND for

Today Tuesday, 20 October 2020

Fire Loc: Lat:-24.912 Long: 153.2777

Using Heath & Shrubland Rate of Spread Model, Slope = 0Deg

Based on BOM Forecast Data Updated @ 20/10/2020 8:16:12 AM

Note: Forecast weather does not fully account for local terrain effects on wind speed and direction.

HEADFIRE SAFETY: Forecast peak intensity 7623kW/m @ 15:00hr on 20th of October. Direct Attack on the headfire/ Backburning may be locally achievable, but is considered LESS SAFE and LESS EFFECTIVE. . Expect around 17hr above 4000kW/m

FLANK FIRE SAFETY: Forecast peak intensity 1906kW/m @ 15:00hr on 20th of October. Direct Attack on the flank fire is indicated to be SAFE and EFFECTIVE.

PEAK WIND SPEED: Wind speed today is forecast to peak at 28km/hr from the South East

RATES OF SPREAD: In Advanced Heath expect headfire travelling North West peaking in speed around 1962m/hr @ 15:00hr, with flanks spreading around 491m/hr. Terrain will affect direction of travel.

SPOT FIRE IGNITION RISK: Given any ember/firebrand production, spot fire ignition risk is moderate. .

IGNITION EASE & SPREAD: Minimum fuel moisture 10% burning readily sustained. Expect moderately fast development consuming most surface fuels.

CONDITIONS TONIGHT: Between 1800hr & midnight fire is likely to continue burning for around 6hr (i.e. hours below Fuel Moisture of 20%)

SHOULD I BURN TODAY BASED ON COMING DAYS FDI? Yes. Normal blacking out distances and patrolling regimes recommended

Fuel Load Used for Calculations:
Heath / Shrubland Model Uses Height & Wind Speed, Not Load

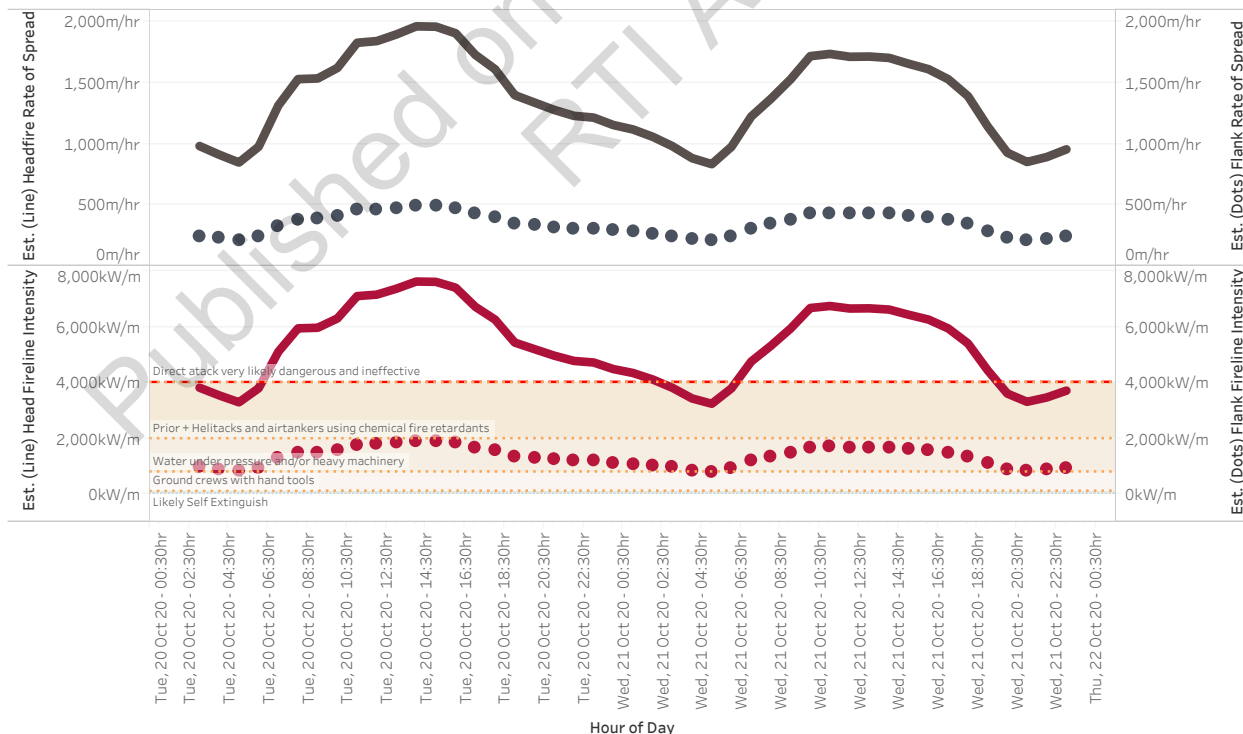
Indicative Peak Forest Spotting Distance
Today: None



Today's Peak Forest Fire Danger Index

10.4
Low-Moderate

Estimated Rate of Spread - HEADFIRE (top thick line) - FLANK No Slope (top dots) & Fireline Intensity: HEADFIRE (bottom thick line) - FLANK No Slope (bottom dots) for Tue, 20 Oct 20 - 03:00hr to Wed, 21 Oct 20 - 23:00hr in Heath & Shrubland Assumed Slope = 0Deg



Disclaimer

This Fire Behaviour Prediction Snap Report ('this Report') is provided solely for information purposes and is not to be construed, under any circumstances, by implication or otherwise, as anything other than as the opinions of the Queensland Fire and Emergency Services Predictive Services Unit in relation to anticipated fire behaviour. The information contained in this Report is provided on the basis that readers will be responsible for making their own assessment of the information contained herein.



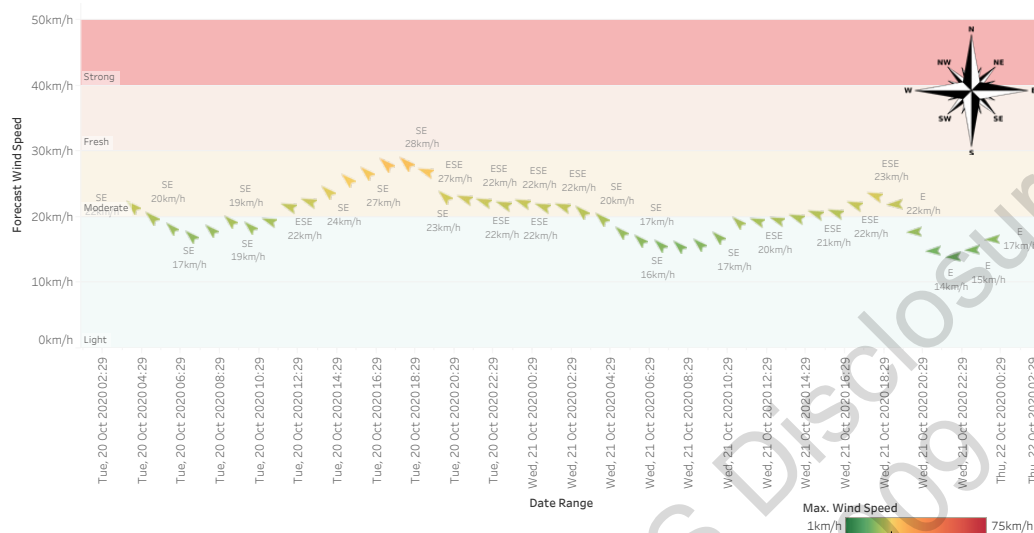
Look Ahead Wind Forecast & Fire Behaviour Guidance

6 Day Look Ahead - Estimated Peak Daily Forest Fire Danger Index Rating for QF4-20-116117 FRASER ISLAND

	Tue, October 20, 2020	Wed, October 21, 2020	Thu, October 22, 2020	Fri, October 23, 2020	Sat, October 24, 2020	Sun, October 25, 2020
QF4-20-116117 FRASER ISLAND	10.4 Low-Moderate	12.0 Low-Moderate	11.3 Low-Moderate	12.6 High	12.0 Low-Moderate	11.3 Low-Moderate

2 Day Wind Forecast in the Vicinity of Incident QF4-20-116117 FRASER ISLAND

Note: BOM forecast wind speed and direction does not fully account for local terrain effects. Thus if your fire is in the lee of hills etc., direction and speed may differ from forecast.



Look Ahead - Daily Peak Wildfire Behaviour Guidance in the Vicinity of QF4-20-116117 FRASER ISLAND assuming Heath & Shrubland Fuel, Slope = 0Deg

Wednesday, 21 October 2020

With a forecast peak daily fireline intensity of 6746kW/m in Heath using the Advanced Heath rate of spread model, Direct Attack is potentially UNSAFE / backburning is potentially RISKY. Fire behaviour is likely to be a highly vigorous, rapidly spreading surface fire with an estimated peak daily headfire forward rate of spread of 1736m/hr and flank rate of spread on flat ground of 434m/hr, exhibiting regular torching (or passive crown fire, with possible periodic crowning). Heath fuels are more resistant to changes in humidity and may continue to burn overnight and in high humidity. Heath is also a threshold fuel, which means it may not carry vigorous fire until the wind reaches a threshold, and then it can rapidly intensify and spread.

Thursday, 22 October 2020

With a forecast peak daily fireline intensity of 6563kW/m in Heath using the Advanced Heath rate of spread model, Direct Attack is potentially UNSAFE / backburning is potentially RISKY. Fire behaviour is likely to be a highly vigorous, rapidly spreading surface fire with an estimated peak daily headfire forward rate of spread of 1689m/hr and flank rate of spread on flat ground of 422m/hr, exhibiting regular torching (or passive crown fire, with possible periodic crowning). Heath fuels are more resistant to changes in humidity and may continue to burn overnight and in high humidity. Heath is also a threshold fuel, which means it may not carry vigorous fire until the wind reaches a threshold, and then it can rapidly intensify and spread.

Friday, 23 October 2020

With a forecast peak daily fireline intensity of 7296kW/m in Heath using the Advanced Heath rate of spread model, Direct Attack is potentially UNSAFE / backburning is potentially RISKY. Fire behaviour is likely to be a highly vigorous, rapidly spreading surface fire with an estimated peak daily headfire forward rate of spread of 1878m/hr and flank rate of spread on flat ground of 469m/hr, exhibiting regular torching (or passive crown fire, with possible periodic crowning). Heath fuels are more resistant to changes in humidity and may continue to burn overnight and in high humidity. Heath is also a threshold fuel, which means it may not carry vigorous fire until the wind reaches a threshold, and then it can rapidly intensify and spread.

BackBurning Approval Guidance: TacD 28.05.00-Backburn and Burning Out Operations

Condition	Approval Process
Incident Controller is to approve or not approve the burning operation. Form OM 202 – Incident Controllers Checklist to Authorise Backburn Operations assists in decision-making.	
Local Forest or Grass Fire Danger Index is not predicted to exceed 30 (Very High) during the incident.	The Incident Controller can consult the Area Director, Regional Manager Rural Fire Service (RFS); Area Commander or Fire and Rescue Service (FRS) Director, Regional Operations; or On-Call Senior Officer.
Local Forest or Grass Fire Danger Index is predicted to EXCEED 30 (Very High) during the period of operation.	Level 1 Incidents The Incident Controller must seek approval from the Regional Manager RFS or Commander Regional Operations (or their delegate). Level 2 or 3 Incidents The Incident Controller appointed by the Regional Manager RFS or Commander Regional Operations can approve as part of a formalised and documented IAP.



Forecast Weather Summary

Day Number
Multiple values

Detailed Weather Forecast in the Vicinity of QF4-20-116117 FRASER ISLAND

Source: Bureau of Meteorology Gridded Weather. This information may have changed since time of release.

Any Special Fire Weather Forecasts Issued will supersede this information.

Hour of Select Date Range	Headfire Fire Direction of Travel	Estimated Ignition / Carry Potential	Temperature (C)	Humidity (%)	Wind Direction (Deg)	Wind Speed (km/h)	GFDI	FFDI	Max. Combined Fuel Moisture	Max. Estimated Headfire Rate of Spread
Tue, 20/10/20 03:00	North West	Difficult, Patchy	16	100	138	22km/h	0	0.5	19%	982m/hr
Tue, 20/10/20 04:00	North West	Difficult, Patchy	16	100	139	20km/h	0	0.5	19%	911m/hr
Tue, 20/10/20 05:00	North West	Difficult, Patchy	17	100	141	18km/h	0	0.5	19%	847m/hr
Tue, 20/10/20 06:00	North West	Sustained	21	83	140	17km/h	0	1.4	16%	977m/hr
Tue, 20/10/20 07:00	North West	Readily Sustained	25	62	141	18km/h	0	4.8	13%	1,314m/hr
Tue, 20/10/20 08:00	North West	Readily Sustained	27	55	135	19km/h	0	7.3	11%	1,530m/hr
Tue, 20/10/20 09:00	North West	Readily Sustained	28	51	130	19km/h	0	8.6	11%	1,535m/hr
Tue, 20/10/20 10:00	West North West	Readily Sustained	29	50	122	19km/h	0	9.2	11%	1,622m/hr
Tue, 20/10/20 11:00	West North West	Readily Sustained	29	48	123	22km/h	0	10.4	10%	1,827m/hr
Tue, 20/10/20 12:00	West North West	Readily Sustained	29	50	124	22km/h	0	9.8	11%	1,841m/hr
Tue, 20/10/20 13:00	North West	Readily Sustained	28	53	129	24km/h	0	9.0	11%	1,896m/hr
Tue, 20/10/20 14:00	North West	Readily Sustained	27	55	136	26km/h	0	8.2	12%	1,962m/hr
Tue, 20/10/20 15:00	North West	Readily Sustained	26	58	134	27km/h	0	7.1	12%	1,959m/hr
Tue, 20/10/20 16:00	North West	Sustained	24	64	129	28km/h	0	5.3	13%	1,905m/hr
Tue, 20/10/20 17:00	North West	Sustained	22	72	128	28km/h	0	3.3	14%	1,728m/hr
Tue, 20/10/20 18:00	West North West	Sustained	21	74	123	27km/h	0	2.8	15%	1,611m/hr
Tue, 20/10/20 19:00	North West	Sustained	21	74	124	23km/h	0	2.5	15%	1,398m/hr
Tue, 20/10/20 20:00	West North West	Sustained	20	77	123	23km/h	0	2.1	15%	1,338m/hr
Tue, 20/10/20 21:00	West North West	Sustained	19	79	121	22km/h	0	1.8	16%	1,278m/hr
Tue, 20/10/20 22:00	West North West	Sustained	19	81	120	22km/h	0	1.6	16%	1,229m/hr
Tue, 20/10/20 23:00	West North West	Difficult, Patchy	19	83	122	22km/h	0	1.4	16%	1,215m/hr
Wed, 21/10/20 00:00	West North West	Difficult, Patchy	18	85	121	22km/h	0	1.2	17%	1,154m/hr
Wed, 21/10/20 01:00	West North West	Difficult, Patchy	18	88	121	22km/h	0	1.0	17%	1,118m/hr
Wed, 21/10/20 02:00	North West	Difficult, Patchy	17	90	125	21km/h	0	0.9	17%	1,058m/hr
Wed, 21/10/20 03:00	North West	Difficult, Patchy	17	92	127	20km/h	0	0.7	18%	981m/hr
Wed, 21/10/20 04:00	North West	Difficult, Patchy	16	93	126	18km/h	0	0.7	18%	883m/hr
Wed, 21/10/20 05:00	North West	Difficult, Patchy	17	92	127	17km/h	0	0.7	18%	834m/hr
Wed, 21/10/20 06:00	North West	Sustained	21	75	130	16km/h	0	2.0	15%	976m/hr
Wed, 21/10/20 07:00	North West	Readily Sustained	25	55	136	16km/h	0	5.9	12%	1,223m/hr
Wed, 21/10/20 08:00	North West	Readily Sustained	27	48	144	16km/h	0	8.8	11%	1,369m/hr
Wed, 21/10/20 09:00	North West	Readily Sustained	29	44	143	17km/h	0	11.0	10%	1,528m/hr
Wed, 21/10/20 10:00	North West	Readily Sustained	29	44	130	19km/h	0	11.7	10%	1,718m/hr
Wed, 21/10/20 11:00	West North West	Readily Sustained	29	44	122	19km/h	0	12.0	10%	1,736m/hr
Wed, 21/10/20 12:00	West North West	Readily Sustained	29	45	117	20km/h	0	11.0	10%	1,713m/hr
Wed, 21/10/20 13:00	West North West	Readily Sustained	28	47	114	20km/h	0	10.4	10%	1,715m/hr
Wed, 21/10/20 14:00	West North West	Readily Sustained	27	49	111	21km/h	0	9.4	11%	1,703m/hr
Wed, 21/10/20 15:00	West North West	Readily Sustained	26	52	104	21km/h	0	8.1	11%	1,655m/hr
Wed, 21/10/20 16:00	West North West	Readily Sustained	24	58	103	22km/h	0	5.8	12%	1,611m/hr
Wed, 21/10/20 17:00	West North West	Sustained	22	67	101	23km/h	0	3.7	14%	1,529m/hr
Wed, 21/10/20 18:00	West	Sustained	21	70	96	22km/h	0	3.0	14%	1,391m/hr
Wed, 21/10/20 19:00	West	Sustained	20	70	92	18km/h	0	2.6	14%	1,143m/hr
Wed, 21/10/20 20:00	West	Sustained	20	74	90	15km/h	0	2.0	15%	927m/hr
Wed, 21/10/20 21:00	West	Sustained	19	76	84	14km/h	0	1.6	15%	852m/hr
Wed, 21/10/20 22:00	West	Sustained	19	78	81	15km/h	0	1.5	15%	892m/hr
Wed, 21/10/20 23:00	West	Sustained	18	80	83	17km/h	0	1.4	16%	955m/hr



Forecast Weather Summary

Day Number
Multiple values

Detailed Weather Forecast (2) in the Vicinity of QF4-20-116117 FRASER ISLAND

Source: Bureau of Meteorology Gridded Weather. This information may have changed since time of release.

Any Special Fire Weather Forecasts Issued will supersede this information.

Hour of Select Date Range	Headfire Fire Direction of Travel	Estimated Ignition / Carry Potential	Temperature (C)	Humidity (%)	Wind Direction (Deg)	Wind Speed (km/h)	GFDI	FFDI	Max. Combined Fuel Moisture	Max. Estimated Headfire Rate of Spread
Thu, 22/10/20 00:00	West South West	Difficult, Patchy	18	82	77	11km/h	0	1.0	16%	614m/hr
Thu, 22/10/20 01:00	West South West	Difficult, Patchy	17	84	71	11km/h	0	0.9	16%	608m/hr
Thu, 22/10/20 02:00	West South West	Difficult, Patchy	17	86	65	10km/h	0	0.8	17%	559m/hr
Thu, 22/10/20 03:00	West South West	Difficult, Patchy	16	90	58	10km/h	0	0.6	17%	548m/hr
Thu, 22/10/20 04:00	West South West	Difficult, Patchy	16	89	58	11km/h	0	0.7	17%	575m/hr
Thu, 22/10/20 05:00	West South West	Difficult, Patchy	17	89	57	10km/h	0	0.7	17%	549m/hr
Thu, 22/10/20 06:00	West South West	Sustained	21	73	56	10km/h	0	1.9	15%	646m/hr
Thu, 22/10/20 07:00	South West	Readily Sustained	25	55	55	11km/h	0	5.6	12%	906m/hr
Thu, 22/10/20 08:00	South West	Readily Sustained	28	47	48	12km/h	0	8.6	10%	1,108m/hr
Thu, 22/10/20 09:00	South West	Readily Sustained	30	42	43	12km/h	0	10.9	10%	1,160m/hr
Thu, 22/10/20 10:00	South West	Readily Sustained	30	42	49	14km/h	0	11.3	10%	1,307m/hr
Thu, 22/10/20 11:00	West South West	Readily Sustained	29	43	57	15km/h	0	10.8	10%	1,345m/hr
Thu, 22/10/20 12:00	South West	Readily Sustained	29	44	46	16km/h	0	10.7	10%	1,453m/hr
Thu, 22/10/20 13:00	South West	Readily Sustained	29	45	49	19km/h	0	10.9	10%	1,638m/hr
Thu, 22/10/20 14:00	South West	Readily Sustained	28	48	51	20km/h	0	9.8	11%	1,689m/hr
Thu, 22/10/20 15:00	South West	Readily Sustained	27	51	53	21km/h	0	8.5	11%	1,662m/hr
Thu, 22/10/20 16:00	South West	Readily Sustained	25	58	54	20km/h	0	6.0	12%	1,522m/hr
Thu, 22/10/20 17:00	South West	Sustained	23	68	53	19km/h	0	3.3	14%	1,270m/hr
Thu, 22/10/20 18:00	South West	Sustained	22	71	54	19km/h	0	2.7	14%	1,194m/hr
Thu, 22/10/20 19:00	South West	Sustained	21	72	52	17km/h	0	2.4	14%	1,063m/hr
Thu, 22/10/20 20:00	South West	Sustained	20	75	54	16km/h	0	1.9	15%	980m/hr
Thu, 22/10/20 21:00	South West	Sustained	20	78	55	15km/h	0	1.6	15%	914m/hr
Thu, 22/10/20 22:00	South West	Sustained	19	79	54	15km/h	0	1.5	16%	897m/hr
Thu, 22/10/20 23:00	South West	Sustained	19	81	54	14km/h	0	1.3	16%	812m/hr
Fri, 23/10/20 00:00	South West	Difficult, Patchy	18	83	53	14km/h	0	1.1	16%	789m/hr
Fri, 23/10/20 01:00	South West	Difficult, Patchy	18	85	52	13km/h	0	1.0	16%	717m/hr
Fri, 23/10/20 02:00	South West	Difficult, Patchy	17	86	52	12km/h	0	0.8	17%	637m/hr
Fri, 23/10/20 03:00	South West	Difficult, Patchy	17	89	51	11km/h	0	0.7	17%	598m/hr
Fri, 23/10/20 04:00	South West	Difficult, Patchy	17	88	49	12km/h	0	0.7	17%	624m/hr
Fri, 23/10/20 05:00	South West	Difficult, Patchy	18	86	47	11km/h	0	0.9	17%	604m/hr
Fri, 23/10/20 06:00	South West	Sustained	21	72	45	11km/h	0	2.1	14%	748m/hr
Fri, 23/10/20 07:00	South West	Readily Sustained	26	54	43	14km/h	0	6.2	12%	1,157m/hr
Fri, 23/10/20 08:00	South West	Readily Sustained	28	48	41	15km/h	0	8.8	10%	1,289m/hr
Fri, 23/10/20 09:00	South West	Readily Sustained	29	44	39	14km/h	0	10.2	10%	1,271m/hr
Fri, 23/10/20 10:00	South West	Readily Sustained	30	44	44	17km/h	0	11.5	10%	1,576m/hr
Fri, 23/10/20 11:00	South West	Readily Sustained	30	43	43	19km/h	0	12.6	10%	1,753m/hr
Fri, 23/10/20 12:00	South West	Readily Sustained	29	44	42	20km/h	0	11.7	10%	1,732m/hr
Fri, 23/10/20 13:00	South West	Readily Sustained	29	46	41	21km/h	0	11.3	10%	1,807m/hr
Fri, 23/10/20 14:00	South West	Readily Sustained	28	49	41	23km/h	0	10.2	11%	1,878m/hr
Fri, 23/10/20 15:00	South West	Readily Sustained	27	53	40	22km/h	0	8.3	11%	1,773m/hr
Fri, 23/10/20 16:00	South West	Readily Sustained	25	60	40	22km/h	0	5.6	12%	1,573m/hr
Fri, 23/10/20 17:00	South West	Sustained	23	69	41	21km/h	0	3.3	14%	1,342m/hr
Fri, 23/10/20 18:00	South West	Sustained	22	73	44	21km/h	0	2.6	15%	1,284m/hr
Fri, 23/10/20 19:00	South West	Sustained	21	75	38	18km/h	0	2.2	15%	1,117m/hr
Fri, 23/10/20 20:00	South West	Sustained	21	78	36	17km/h	0	1.8	15%	1,027m/hr
Fri, 23/10/20 21:00	South South West	Sustained	20	81	32	16km/h	0	1.5	16%	945m/hr
Fri, 23/10/20 22:00	South South West	Sustained	20	82	30	17km/h	0	1.4	16%	990m/hr
Fri, 23/10/20 23:00	South South West	Difficult, Patchy	19	83	27	16km/h	0	1.3	16%	920m/hr



Forecast Weather Summary

Day Number
Multiple values

Detailed Weather Forecast (3) in the Vicinity of QF4-20-116117 FRASER ISLAND

Source: Bureau of Meteorology Gridded Weather. This information may have changed since time of release.

Any Special Fire Weather Forecasts Issued will supersede this information.

Hour of Select Date Range	Headfire Fire Direction of Travel	Estimated Ignition / Carry Potential	Temperature (C)	Humidity (%)	Wind Direction (Deg)	Wind Speed (km/h)	GFDI	FFDI	Max. Combined Fuel Moisture	Max. Estimated Headfire Rate of Spread
Sat, 24/10/20 00:00	South South West	Difficult, Patchy	19	85	25	16km/h	0	1.1	16%	897m/hr
Sat, 24/10/20 01:00	South South West	Difficult, Patchy	18	87	22	16km/h	0	1.0	17%	875m/hr
Sat, 24/10/20 02:00	South South West	Difficult, Patchy	18	88	20	16km/h	0	0.9	17%	843m/hr
Sat, 24/10/20 03:00	South South West	Difficult, Patchy	17	91	17	16km/h	0	0.7	17%	826m/hr
Sat, 24/10/20 04:00	South South West	Difficult, Patchy	17	90	13	17km/h	0	0.8	17%	859m/hr
Sat, 24/10/20 05:00	South South West	Difficult, Patchy	18	90	10	16km/h	0	0.8	17%	832m/hr
Sat, 24/10/20 06:00	South South West	Sustained	22	75	6	16km/h	0	2.2	15%	1,009m/hr
Sat, 24/10/20 07:00	South South West	Readily Sustained	26	57	3	20km/h	0	6.3	12%	1,490m/hr
Sat, 24/10/20 08:00	South	Readily Sustained	28	50	359	21km/h	0	9.1	11%	1,702m/hr
Sat, 24/10/20 09:00	South	Readily Sustained	29	48	356	20km/h	0	10.2	10%	1,703m/hr
Sat, 24/10/20 10:00	South	Readily Sustained	30	47	354	20km/h	0	11.0	10%	1,725m/hr
Sat, 24/10/20 11:00	South	Readily Sustained	30	45	350	21km/h	0	12.0	10%	1,825m/hr
Sat, 24/10/20 12:00	South South East	Readily Sustained	30	46	347	19km/h	0	11.2	10%	1,681m/hr
Sat, 24/10/20 13:00	South	Readily Sustained	30	48	352	20km/h	0	10.7	10%	1,743m/hr
Sat, 24/10/20 14:00	South	Readily Sustained	29	51	355	22km/h	0	9.2	11%	1,775m/hr
Sat, 24/10/20 15:00	South	Readily Sustained	27	56	358	22km/h	0	7.3	12%	1,673m/hr
Sat, 24/10/20 16:00	South South West	Readily Sustained	25	64	6	22km/h	0	4.9	13%	1,511m/hr
Sat, 24/10/20 17:00	South South West	Sustained	23	75	9	21km/h	0	2.5	15%	1,266m/hr
Sat, 24/10/20 18:00	South South West	Sustained	22	81	10	21km/h	0	1.9	15%	1,196m/hr
Sat, 24/10/20 19:00	South South West	Sustained	21	82	12	21km/h	0	1.8	16%	1,200m/hr
Sat, 24/10/20 20:00	South South West	Difficult, Patchy	21	85	14	20km/h	0	1.4	16%	1,098m/hr
Sat, 24/10/20 21:00	South South West	Difficult, Patchy	20	87	15	19km/h	0	1.2	17%	1,036m/hr
Sat, 24/10/20 22:00	South	Difficult, Patchy	20	90	349	19km/h	0	1.0	17%	995m/hr
Sat, 24/10/20 23:00	South South East	Difficult, Patchy	19	92	348	19km/h	0	0.9	17%	950m/hr
Sun, 25/10/20 00:00	South	Difficult, Patchy	19	94	356	20km/h	0	0.8	18%	972m/hr
Sun, 25/10/20 01:00	South South East	Difficult, Patchy	19	96	347	19km/h	0	0.7	18%	924m/hr
Sun, 25/10/20 02:00	South	Difficult, Patchy	18	97	351	18km/h	0	0.6	18%	867m/hr
Sun, 25/10/20 03:00	South	Difficult, Patchy	18	100	349	18km/h	0	0.5	18%	820m/hr
Sun, 25/10/20 04:00	South	Difficult, Patchy	18	100	350	19km/h	0	0.5	19%	858m/hr
Sun, 25/10/20 05:00	South South East	Difficult, Patchy	19	100	341	18km/h	0	0.6	18%	851m/hr
Sun, 25/10/20 06:00	South South East	Sustained	22	84	340	19km/h	0	1.6	16%	1,084m/hr
Sun, 25/10/20 07:00	South South East	Readily Sustained	26	62	340	23km/h	0	5.5	13%	1,619m/hr
Sun, 25/10/20 08:00	South South East	Readily Sustained	29	54	339	24km/h	0	8.8	11%	1,912m/hr
Sun, 25/10/20 09:00	South South East	Readily Sustained	30	51	338	23km/h	0	10.2	11%	1,908m/hr
Sun, 25/10/20 10:00	South South East	Readily Sustained	30	50	345	23km/h	0	10.4	11%	1,915m/hr
Sun, 25/10/20 11:00	South South East	Readily Sustained	31	49	339	25km/h	0	11.3	10%	2,051m/hr
Sun, 25/10/20 12:00	South South East	Readily Sustained	30	52	340	24km/h	0	10.0	11%	1,919m/hr
Sun, 25/10/20 13:00	South South East	Readily Sustained	30	53	341	24km/h	0	9.3	11%	1,895m/hr
Sun, 25/10/20 14:00	South South East	Readily Sustained	29	57	345	24km/h	0	7.9	12%	1,850m/hr
Sun, 25/10/20 15:00	South	Readily Sustained	27	61	350	23km/h	0	6.0	12%	1,669m/hr
Sun, 25/10/20 16:00	South	Sustained	26	68	353	23km/h	0	4.2	13%	1,532m/hr
Sun, 25/10/20 17:00	South	Sustained	24	79	354	22km/h	0	2.3	15%	1,298m/hr
Sun, 25/10/20 18:00	South	Sustained	23	83	352	22km/h	0	1.8	16%	1,220m/hr
Sun, 25/10/20 19:00	South	Sustained	22	83	354	22km/h	0	1.8	16%	1,254m/hr
Sun, 25/10/20 20:00	South	Difficult, Patchy	22	87	359	21km/h	0	1.3	16%	1,108m/hr
Sun, 25/10/20 21:00	South South West	Difficult, Patchy	21	89	2	20km/h	0	1.2	17%	1,042m/hr
Sun, 25/10/20 22:00	South South West	Difficult, Patchy	21	91	3	20km/h	0	1.0	17%	1,012m/hr
Sun, 25/10/20 23:00	South	Difficult, Patchy	20	92	359	18km/h	0	0.9	17%	941m/hr



Fire in surface fuels only
 Flame Height = 0.5-1.0m,
 Forward Rate of Spread = 50-100m/hr
 Intensity ~ 200 to 400 kW/m
Direct Attack Very Safe / Very Effective



Fire in surface and bark fuels
 Flame Height = 1.5 m (plus height of bark fires),
 Forward Rate of Spread = 100-300 m/hr
 Intensity ~ 500 to 1000 kW/m
Direct Attack Safe / Effective



Fire in Surface, Bark and Elevated Fuels
 Flame Height = 1.5 to 3 m,
 Forward Rate of Spread = 300-500 m/hr
 Intensity ~ 1500 to 2500 kW/m
Direct Attack Safe / Effective



Fire in Surface, Bark and Elevated Fuels
 Some Passive Crowning
 Flame Height = 3 to 5 m,
 Forward Rate of Spread = 500-1200 m/hr
 Intensity ~ 3000 to 4000 kW/m
Direct Attack Safe / Effective (Upper end)



Fire in Surface, Bark and Elevated Fuels
 Periodic Active Crowning
 Flame Height = 5 to 10 m,
 Forward Rate of Spread = 1200-2000 m/hr
 Intensity ~ 4000 to 10000 kW/m
Direct Attack NOT Safe / NOT Effective



Fire in Surface, Bark and Elevated Fuels
 Sustained Active Crowning
 Flame Height > 10 m,
 Forward Rate of Spread > 2000 m/hr
 Intensity ~ > 10000 kW/m
Direct Attack NOT Safe / NOT Effective

Assumptions:

Fuel / Moisture Models:

1. Forest is the McArthur Mk 5 model using the Matthews Fuel Moisture reformulation.
2. The Heath model is the Anderson's Heath Model with the Fuel Moisture Model therein.
3. Grass Models are the CSIRO Grass models for Eaten Out (1.5t/ha), Grazed (3.5t/ha) and Natural (5t/ha).
4. Woodlands used the Natural Grass ROS model with a speed reduction factor applied based on % canopy cover as outlined in the AFAC Rate of Spread guide.



IDQ20102
Australian Government Bureau of Meteorology
Queensland

Incident Weather Forecast for Fraser Island

Issued at 11:41 am EST on Monday 19 October 2020.

Incident Type: Wildfire	Website Form No: 003
Forecast Location: 1.4 km south of Lake Yeenan	Request No: 4
Latitude/Longitude: -24.91 153.238611	Fax Number: ##
Elevation (metres ASL): 43-70	Contact Ph: Personal inform 07 3635 1808
Fuel Type: Other	Contact Name: Russell Stephens-Peacock
	Email: russell.stephens-peacock@qfes.qld.gov.au

Significant wind changes during the forecast period, including uncertainties

Winds are expected to be moderate from the northwest during the day today (25-30 km/hr). From late this evening (around 8pm), winds should become light (around 10km/hr) from the northeast, before a moderate southeasterly chance (around 20 km/hr) arrives early tomorrow morning, at around 1am. These southeasterly winds will persist and strengthen during the day tomorrow, up to 25 km/hr.

Forecast thunderstorm potential, precipitation and cloud, including uncertainties

40% chance of showers overnight tonight with the southeasterly change, reducing to a 20% chance tomorrow afternoon before clearing. Nil chance of thunderstorms during the forecast period. Pyrocumulus is possible but dry lightning is unlikely.

Spatial variation of conditions and other important information

The nearest, most similar observation site is Hervey Bay, with current conditions of 26C, 25 km/hr northerly winds and relative humidity of 60%.

30 Hour Forecast commencing 1200 hours Monday 19 October 2020													
Drought factor: 10				Curing value (%): 35				Fuel Load (t/ha): 3.8					
Local Time	Temp (C)	Dewpt (C)	RH (%)	10m Wind (km/h)			1000m AGL Wind (km/h)		FFDI	GFDI	cHaines	Mix Height (m) MSL	TAL
				Dir	Speed	Gust	Dir	Speed					
1200	30	17	46	WNW	25	40	NW	20	13	0	3	2300	0
1300	30	17	46	NW	25	35	NW	20	13	0	3	2200	0
1400	30	17	46	NW	25	40	NW	20	13	0	4	2200	0
1500	29	17	48	NNW	25	45	WNW	15	11	0	4	2000	0
1600	27	17	54	NNW	25	45	W	15	9	0	5	1500	0
1700	25	18	65	NNW	30	45	W	15	6	0	5	1000	0
1800	23	18	73	NNW	25	45	W	15	4	0	5	800	0
1900	23	18	73	NNW	15	25	W	15	3	0	5	600	0
2000	22	18	78	NE	10	15	W	15	2	0	5	600	0
2100	21	18	83	NE	10	15	W	10	2	0	4	400	0
2200	21	18	83	ENE	10	15	ESE	10	2	0	4	300	1
2300	20	18	88	ENE	10	15	E	10	1	0	3	100	1
0000	19	18	94	NE	10	15	ENE	10	1	0	3	0	1
0300	17	17	100	SE	20	30	SW	5	1	0	2	0	1

30 Hour Forecast commencing 1200 hours Monday 19 October 2020													
Drought factor: 10				Curing value (%): 35				Fuel Load (t/ha): 3.8					
Local Time	Temp (C)	Dewpt (C)	RH (%)	10m Wind (km/h)			1000m AGL Wind (km/h)		FFDI	GFDI	cHaines	Mix Height (m) MSL	TAL
				Dir	Speed	Gust	Dir	Speed					
0600	17	17	100	SE	20	30	SSW	5	1	0	2	0	1
0900	27	18	58	SE	15	25	S	15	6	0	1	2000	1
1200	29	17	48	ESE	15	30	SSE	20	9	0	1	2400	0
1500	27	17	54	SE	25	40	SE	30	9	0	1	2100	0
1800	22	17	73	SE	25	45	SE	30	4	0	1	1100	0

AGL - Above Ground Level, RH - Relative Humidity, Dir - Direction, Dewpt - Dew Point, cHaines - Continuous Haines (0-13), TAL - Thunderstorm Activity Level (0-3). Note: Mixing height is above Mean Sea Level (MSL), to get AGL height subtract incident elevation from value given.

Outlook for Tuesday

Maximum temperature 29 C. Minimum relative humidity about 50%. Chance of at least 5 mm rainfall 10%. 9 am conditions: Temperature: 27 C; Relative humidity: 55%; Wind: SE 15 km/h. 3 pm conditions: Temperature: 27 C; Relative humidity: 55%; Wind: SE 25 km/h.

Outlook for Wednesday

Maximum temperature 29 C. Minimum relative humidity about 40%. Chance of at least 5 mm rainfall 5%. 9 am conditions: Temperature: 27 C; Relative humidity: 50%; Wind: SE 15 km/h. 3 pm conditions: Temperature: 28 C; Relative humidity: 45%; Wind: E 20 km/h.

Outlook for Thursday

Maximum temperature 29 C. Minimum relative humidity about 40%. Chance of at least 5 mm rainfall 5%. 9 am conditions: Temperature: 27 C; Relative humidity: 50%; Wind: NE 10 km/h. 3 pm conditions: Temperature: 28 C; Relative humidity: 50%; Wind: NE 15 km/h.

Outlook for Friday

Maximum temperature 30 C. Minimum relative humidity about 45%. Chance of at least 5 mm rainfall 0%. 9 am conditions: Temperature: 28 C; Relative humidity: 50%; Wind: N 15 km/h. 3 pm conditions: Temperature: 29 C; Relative humidity: 50%; Wind: N 20 km/h.

* ##

TOM Map

Fraser Island

Legend

Current Incidents

- FIRE VEHICLE *
- FIRE VEHICLE *
- FIRE VEGETATION
- FIRE VEGETATION EXPOSURES (FIRE VEGETATION)
- PERMITTED BURN (ATTENDANCE)
- HAZARD *
- HAZARD *
- HAZARD *
- HAZARD *
- HAZARD *
- FIRE STRUCTURE *
- FIRE STRUCTURE *
- FIRE STRUCTURE *
- FIRE STRUCTURE *
- FIRE STRUCTURE *
- (FIRE STRUCTURE)
- ASSIST ANIMAL RESCUE
- ALARM *
- ALARM *
- ALARM *
- ALARM *
- ASSIST EXTREME WEATHER
- RESCUE ROAD *
- RESCUE ROAD *
- RESCUE ROAD *
- RESCUE ROAD *
- RESCUE WATER ALL TYPES

Fire Direction

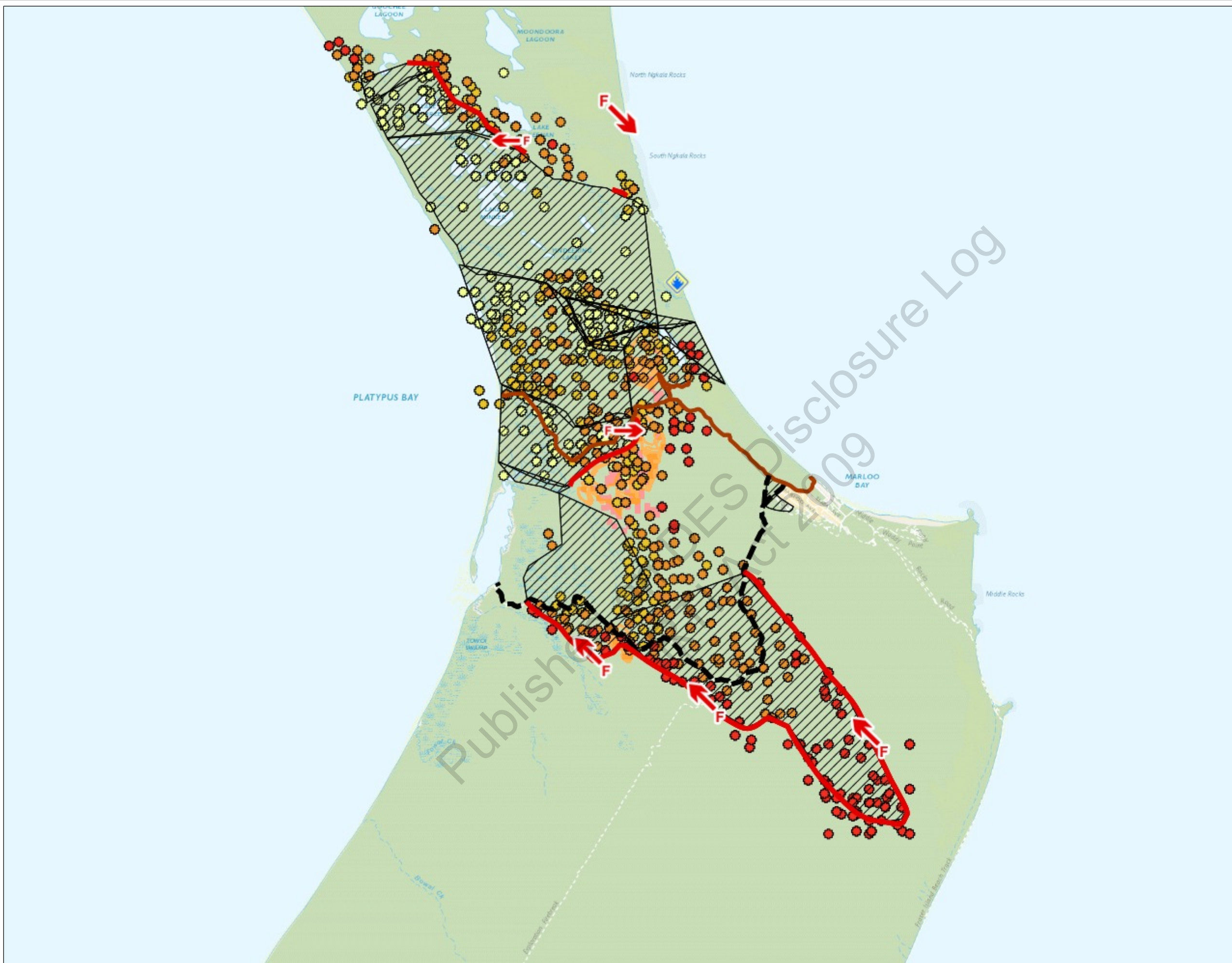
- Fire E
- Fire N
- Fire NE
- Fire NW
- Fire S
- Fire SE
- Fire SW
- Fire W

Fire Lines

- Access Track
- Back Burn - Completed
- Back Burn - Planned
- Evacuation Route
- Fire Control Line - Completed
- Fire Control Line - Planned
- Fire Edge - Active
- Fire Edge - Predicted
- Powerlines
- Sector Boundary

Fire Areas

- Burnt Area - Current
- Control Area
- All Current Hotspots
- Perimeters
- Hour Spot



Disclaimer: This product has been prepared for Queensland Fire and Emergency Services and Public Safety Business Agency. Other users must satisfy themselves it is accurate and suitable for their purpose. QFES & PSBA does not accept any liability for any loss or damage that may result from the use of or reliance on this information.



File E Release



When printed at A3 - 1: 100,000
0 2.54 5.08
Kilometres
WGS_1984_Web_Mercator_Auxiliary_Sphere

This map was automatically generated using Geocortex Essentials.



A3 map produced at:
October 20, 2020 10:23:21 AM

Date : 27/11/2020 12:21:19 PM

From : "CAMBOURN Neil"

To : "HARRIS Leigh" , "SPINKS Troy" , "MCLAUGHLIN Marty"

Subject : FW: URGENT: Escalation of Duling K'Gari Fire to Level 3 Incident

Attachment : image001.png;image005.jpg;image007.jpg;image002.png;image004.png;image009.png;image010.png;image012.png;

The formal advice for records gents.

Many thanks, Neil



Neil Cambourn

Assistant Director-General

Queensland Parks and Wildlife Service and Partnerships

Department of Environment and Science

P 07 3199 7518 M **Personal info**

Level 5, 400 George Street, Brisbane QLD 4000

From: KLAASSEN Ben <Ben.Klaassen@des.qld.gov.au>

Sent: Friday, 27 November 2020 10:43 AM

To: CAMBOURN Neil

Cc: MERRICK Jamie; HEAD Damien

Subject: RE: URGENT: Escalation of Duling K'Gari Fire to Level 3 Incident

Hi Neil

As discussed Mike Wassing has confirmed that QFES will take Incident Control of the fire with James Haig to step in. We have been asked to remain as Deputy IC and I agreed Scott would be available for that.

Thanks

Ben



Ben Klaassen

Deputy Director-General

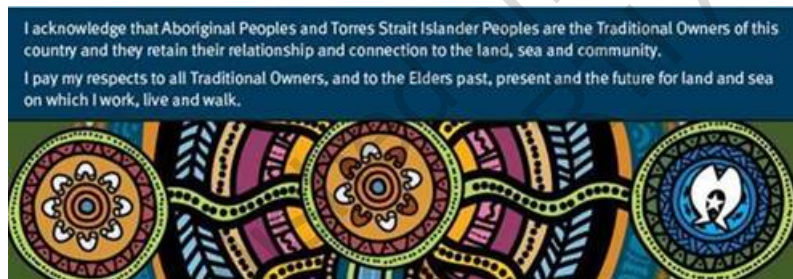
Queensland Parks and Wildlife Service and Partnerships

Department of Environment and Science

P 07 3199 7538 | M **Personal info** | E ben.klaassen@des.qld.gov.au

Level 5, 400 George St, Brisbane QLD 4000

PO Box 15187, CITY EAST QLD 4002



From: KLAASSEN Ben

Sent: Thursday, 26 November 2020 6:35 PM

To: CAMBOURN Neil

Cc: MERRICK Jamie; HEAD Damien

Subject: RE: URGENT: Escalation of Duling K'Gari Fire to Level 3 Incident

Hi

I have had a call back from Mike Wassing.

His advice from QFES is that no decision has been made the incident is Level 3 from anyone in the appropriate chain of command. It may be a view at the local level but not signed off at the correct authorisation.

He was happy for it to be discussed at tomorrow's briefing so we get clarity.

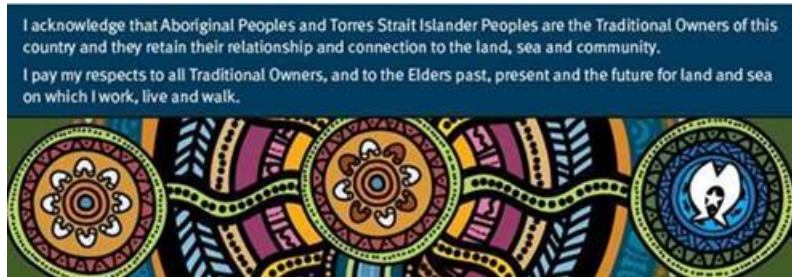
As such QPWS remains IC until tomorrow.

Mike also advised he will be doing media tomorrow for Statewide fire update which will include K'Gari fire.

Regards
Ben



Ben Klaassen
Deputy Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science
P 07 3199 7538 | M Personal info | E ben.klaassen@des.qld.gov.au
Level 5, 400 George St, Brisbane QLD 4000
PO Box 15187, CITY EAST QLD 4002



From: CAMBOURN Neil <Neil.Cambourn@des.qld.gov.au>
Sent: Thursday, 26 November 2020 3:50 PM
To: KLAASSEN Ben
Subject: FW: URGENT: Escalation of Duling K'Gari Fire to Level 3 Incident

Hi Ben,
Please see below for consideration/ discussion.

Neil



Neil Cambourn
Assistant Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science
P 07 3199 7518 | M Personal info
Level 5, 400 George Street, Brisbane QLD 4000

From: SPINKS Troy <Troy.Spinks@des.qld.gov.au>
Sent: Thursday, 26 November 2020 3:44 PM
To: CAMBOURN Neil; HEAD Damien
Cc: HARRIS Leigh
Subject: URGENT: Escalation of Duling K'Gari Fire to Level 3 Incident

Neil and Damien,

RECOMMENDATION: The Assistant Director General (or above) formally recommend transfer of control of the Duling Fire on K'gari (Fraser Island) from QPWS to QFES, as it has now been **identified by QFES as a Level 3 incident**

BACKGROUND:

- IC Nathan Connor met with QFES late this morning, and QFES advised that they consider the incident to be a Level 3 but as a landscape fire predominantly on QPWS estate, that QPWS maintains control.
- QFES have provided extra support to the IMT, including a deputy IC to ensure coordination between Departments. Nathan is currently engaged in trying to resolve the issues associated with the expanding IMT, including their operating location.
- Under the Qld Bushfire Plan, QFES is responsible for Level 3 incidents:

"A level 2 incident will also be managed by QPWS unless human life or property is threatened, or the bushfire is likely to progress beyond QPWS managed land, in which case the responsibility for the bushfire will be transferred to QFES (as will a level 3 incident). For level 2 and 3 incidents, QPWS will continue to coordinate with QFES to maintain an effective response."

- The Qld Bushfire Plan doesn't describe 'landscape' fire in roles and responsibilities - it describes fire level and the roles and responsibilities of organisations at the respective level of incident.

- As the matter of hand over to QFES has not progressed at the incident and Regional level it is appropriate to escalate concern that QPWS is still controlling a Level 3 incident beyond the trained capability of QPWS staff and inconsistent with the Qld Bushfire Plan.
- QFES Regional staff have been advised at the Assistant Commissioner level that the Duling Fire is to remain as QPWS control as it is still considered a landscape fire.
- Given this level of direction and engagement within QFES, it is recommended that we (QPWS) engage QFES at this level (Assistant Commissioner) to change the current paradigm of incident control.

For urgent consideration and progression

Regards,



Troy Spinks

Director, Technical Services

Queensland Parks and Wildlife Service and Partnerships | Park Services Branch

Department of Environment and Science

M Personal info

Gold Coast Area Office, Kabool Rd, WEST BURLEIGH QLD 4219

PO Box 3454, Burleigh Town LPO, BURLEIGH HEADS QLD 4220

Date : 15/11/2020 4:21:49 PM
From : "CAMBOURN Neil"
To : "SPINKS Troy"
Subject : Fwd: Duling Wildfire 16:30 SITREP
Attachment : image003.png;
Nothing in here that suggests any escalation required.

Regards Neil Cambourn

Begin forwarded message:

From: HEAD Damien <Damien.Head@des.qld.gov.au>
Date: 15 November 2020 at 3:06:01 pm AEST
To: Media DES <Media@des.qld.gov.au>, CUBIS Mick <Mick.Cubis@des.qld.gov.au>, CAMBOURN Neil <Neil.Cambourn@des.qld.gov.au>, KLAASSEN Ben <Ben.Klaassen@des.qld.gov.au>
Subject: Fwd: Duling Wildfire 16:30 SITREP

Sent from my iPhone

Begin forwarded message:

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>
Date: 15 November 2020 at 2:46:47 pm AEST
To: CUBIS Mick <Mick.Cubis@des.qld.gov.au>, HEAD Damien <Damien.Head@des.qld.gov.au>
Cc: MACDONALD Stirling <Stirling.MacDonald@des.qld.gov.au>, CIR Fire Team <CIR.FireTeam@des.qld.gov.au>, SEELEITHER Jamie <Jamie.Seeleither@des.qld.gov.au>
Subject: FW: Duling Wildfire 16:30 SITREP

Hi Mick – the latest on the fire. Note that the PSPA has been able to be deactivated over Cathedral's on Fraser given fire behaviour/conditions. QPS/QFES have actioned this and interaction has occurred with managers on site.

Regards, M

From: BEHRENDORFF Linda <Linda.Behrendorff@des.qld.gov.au>
Sent: Sunday, 15 November 2020 2:40 PM
To: CIR Fire Team; Fire Advice; DARGUSCH Marc; HARVEY Peter; YETMAN Brendon; SEELEITHER Jamie; EDMED Greg
Cc: GREEN John; Chris Hanlon; Michael Koch; BURNS Malcolm; KUSKIE James; LAVENDER Sven; Fitzpatrick.ShaneB[CR]; VurensVanEs.Roland@police.qld.gov.au; firecom.kaw@qfes.qld.gov.au; Andrew Marnie; TAPPLY Jenna
Subject: Duling Wildfire 16:30 SITREP

Good afternoon all,

Weather conditions: Moderate winds (~20-25 km/hr) from NNW to NNE today and low- mod fire danger predicted by SABRE. Slight SE change tomorrow early morning.

Sector breakdown:

North Sector (Sandy Cape)

- Fire at Sandy Cape still estimated by air observers yesterday to be several days from the lighthouse, main fire is burning South East back towards North Ngkala, flanking traveling towards Browns rocks- air observations to be completed every second day at Sandy cape. Next due tomorrow. Suituation predicted to change with SE change.
- Watch and wait – preparing crews for securing infrastructure mid-end of week (3 crews).

South-east sector (currently 1km nth Cathedrals)

- Fire is 1 K north of Cathedral beach due to topography and fuel variations has moved only 200 overnight along beachfront which at present has active fire visible from beachfront. Fire may still take over a day to reach cathedrals northern side.
- Still unable to Backburn northern edge of Cathedrals outer fire break due to stronger winds throughout evening
- RFS 12,000 ltr collar tank setup at Cathedral Beach helipad – currently full of water and bore tank at cathedrals quick fill is full this morning.
- Overgrown break reopened 1.3 blade width (prev 4 blade) from Nulla Kunggur SB to the Cathedral's western

FB.

- PSPA deactivated
- Watch and await and attempt to back-burn as condition allow.

South west sector (Woralie to Happy Valley sector)

- Fire is south of Woralie break on Western side fire is travelling through centre of island to the eastern side of the island.
- Head fire remains in tall forest burning towards the south east still around Freshwater (Butterfly) lakes area, flanking fire is of moderate intensity burning to south.
- Coomboo Barracks still not affected, fire is approximately 800m away (flanking fire) crews have secured site.
- Road closed erected along Moon Point Rd and Bullock Rd/ Northern Scenic drive intersections; Woralie Road eastern beach closed.
- Slashing / scraping of Dindeir Sand blow firebreak north of Happy Valley completed, Kooloro sand blow break slashing completed

Dundubara sector (Dundubara sth)

- Backing fire travelling north back into Dundubara expected to reach Dundubara Creek this evening. Watch and wait then tie-off or secure edge as required in the evening with higher humidity and reduced wind conditions. Risk of SE wind change causing ember attack upon the base/campground and infrastructure.
- Still expecting active fire south of Indian Head and several kilometres north and south of Dundubara

IMT

- QFES support officers on site
- Extra QPS assistance on island
- Smoke alert issued Saturday
- FLAME / Firecom updated 13:00

IC

DAY

Sunday AM Sven Lavender

Sunday PM– Tuesday Linda Behrendorff

NIGHT as required.

Sunday James Kuskie

Logistics Support

Saturday – Mid Monday Jenna Tappl

Mid Monday – Thursday Grahame Bully

-

Ground Crews – Sunday

Day

2 X SMU

½ NMU

2 X RFS 41's

2 X RFS 51's on standby

Night

1 X BLSR

1 X NMU

1 X NSI

½ NMU IC / Machinery operator

2 X RFS 51's on standby

Incoming crews

Monday – Friday 1 X NSI crew + 1 Logistics Officer / IC Support
Monday – Thursday 1X BAC

Thank you for your assistance.

'The legacy you leave for colleagues emerging behind you, is how you allow yourself to be treated by others.'



Linda Behrendorff

Ranger in Charge, Natural Resource Management
Great Sandy National Park – K'gari (Fraser Island) & Cooloola
Coastal and Island Parks - Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

P 07 4127 9128

M **Personal**

I acknowledge and pay my respect to Traditional Owners as the Custodians of the Lands and Seas on which I walk, work and live on.

Date : 5/11/2020 4:41:59 PM

From : "CAMBOURN Neil"

To : "KLAASSEN Ben"

Subject : Fwd: DulingCZ WF K'gari - Thursday 5.11.2020 Morning 14:30 SITREP-update

Attachment : IMG_1711.JPG;IMG_1713.JPG;IMG_1707.JPG;IMG_1698.JPG;20201105Fraser Island Southern section 1200.pdf;

Regards Neil Cambourn

Begin forwarded message:

From: CUBIS Mick <Mick.Cubis@des.qld.gov.au>

Date: 5 November 2020 at 4:26:26 pm AEST

To: CAMBOURN Neil <Neil.Cambourn@des.qld.gov.au>, HARRIS Leigh <Leigh.Harris@des.qld.gov.au>, SPINKS Troy <Troy.Spinks@des.qld.gov.au>

Subject: Fwd: DulingCZ WF K'gari - Thursday 5.11.2020 Morning 14:30 SITREP-update

Still sending up a fair bit of smoke.

Mick Cubis

Regional Director

Coastal and Islands | QPWS&Partnerships

Department of Environment and Science

P (07) 54471137 | Mobile Personal info

Begin forwarded message:

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>

Date: 5 November 2020 at 3:56:30 pm AEST

To: CUBIS Mick <Mick.Cubis@des.qld.gov.au>

Cc: MACDONALD Stirling <Stirling.MacDonald@des.qld.gov.au>

Subject: FW: DulingCZ WF K'gari - Thursday 5.11.2020 Morning 14:30 SITREP-update

The pictureswe're still okay 😊

DIRECTION
14 deg(T)

-25°10'45.3"
+153°17'09.8"

ACCURACY 5 m
DATUM WGS84



Published on DES Disclosure Log
RTI Act 2009

AAS J Evans
AOB T Collingwood

FB 460

5/11/20, 12:41:22 pm



Published on DES Disclosure Log
Project 2019

DIRECTION
338 deg(T)

-24°59'26.8"
+153°18'40.8"

ACCURACY 5 m
DATUM WGS84



AAS J Evans
AOB T Collingwood

FB 460

5/11/20, 12:28:47 pm

DIRECTION
328 deg(T)

-25°01'10.0"
+153°11'18.6"

ACCURACY 5 m
DATUM WGS84



AAS J Evans
AOB T Collingwood

FB 460

5/11/20, 12:00:14 pm



- Legend**
- Current Incidents**
- FIRE VEHICLE *
 - FIRE VEHICLE *
 - FIRE VEGETATION
 - FIRE VEGETATION EXPOSURES (FIRE VEGETATION)
 - PERMITTED BURN (ATTENDANCE)
 - HAZARD *
 - HAZARD *
 - HAZARD *
 - HAZARD *
 - HAZARD *
 - FIRE STRUCTURE *
 - FIRE STRUCTURE *
 - FIRE STRUCTURE *
 - FIRE STRUCTURE *
 - FIRE STRUCTURE *
 - (FIRE STRUCTURE)
 - ASSIST ANIMAL RESCUE
 - ALARM *
 - ALARM *
 - ALARM *
 - ALARM *
 - ASSIST EXTREME WEATHER
 - RESCUE ROAD *
 - RESCUE ROAD *
 - RESCUE ROAD *
 - RESCUE ROAD *
 - RESCUE WATER ALL TYPES
- Fire Direction**
- Fire E
 - Fire N
 - Fire NE
 - Fire NW
 - Fire S
 - Fire SE
 - Fire SW
 - Fire W
- Fire Points**
- Control Centre
 - Divisional Boundary
 - Evacuation Area
 - Fire
 - Fire - Point of Origin
 - Fire Appliance
 - Fire Hot Spot
 - General Asset
 - Note
 - POI
 - Refuge Area
 - Road Closed
 - Sector Boundary
 - Spot Fire
 - Threatened Asset
 - Water Point
- Fire Lines**
- Access Track
 - Back Burn - Completed
 - Back Burn - Planned
 - Evacuation Route
 - Fire Control Line - Completed
 - Fire Control Line - Planned
 - Fire Edge - Active
 - Fire Edge - Predicted
 - Powerlines
 - Sector Boundary
 - LAT Line - Completed
 - LAT Line - Planned

Disclaimer: This product has been prepared for Queensland Fire and Emergency Services and Public Safety Business Agency. Other users must satisfy themselves it is accurate and suitable for their purpose. QFES & PSBA does not accept any liability for any loss or damage that may result from the use of or reliance on this information.



Date : 4/11/2020 12:13:56 PM

From : "CAMBOURN Neil"

To : "CUBIS Mick", "DARGUSCH Marc", "HARRIS Leigh", "SPINKS Troy", "KLAASSEN Ben"

Cc : "YETMAN Brendon", "HARVEY Peter", "CIR Fire Team"

Subject : RE: Duling WF - 0900 SIT REP

Attachment : image001.png;image003.png;image004.png;image006.png;

Excellent work folks, sincere thanks for all of your outstanding efforts to keep this one in check.

Regards Neil



Neil Cambourn

Assistant Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science

P 07 3199 7518 M **Personal info**
Level 5, 400 George Street, Brisbane QLD 4000

From: CUBIS Mick <Mick.Cubis@des.qld.gov.au>
Sent: Wednesday, 4 November 2020 12:08 PM
To: DARGUSCH Marc; CAMBOURN Neil
Cc: YETMAN Brendon; HARVEY Peter; CIR Fire Team
Subject: RE: Duling WF - 0900 SIT REP

Thanks Marc and team, good work. Neil fyi,

thanks

Mick Cubis

Regional Director, Coastal and Islands Region
GBRIMCI | QPWS & Partnerships
Department of Environment and Science

P: 07 54471137 M **Personal info**
240 Moorindil Street, Tewantin
Qld 4565
mick.cubis@des.qld.gov.au

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>
Sent: Wednesday, 4 November 2020 11:40 AM
To: CUBIS Mick
Cc: YETMAN Brendon; HARVEY Peter; CIR Fire Team
Subject: FW: Duling WF - 0900 SIT REP

Hi Mick – things are still looking okay. Linda/crew doing good job.

Regards, Marc



Marc Dargusch

Principal Ranger – Great Sandy Area
Coastal and Islands Region | QPWS and Partnerships
Department of Environment and Science

M **Personal info** P 07 54869960
Level 6, 12 on First Avenue, Maroochydore 4558
www.des.qld.gov.au

I give my respect to the traditional and custodial Aboriginal and Torres Strait Island Elders and Owners of the Land in which I work, live and walk.

From: BEHRENDORFF Linda <Linda.Behrendorff@des.qld.gov.au>
Sent: Wednesday, 4 November 2020 10:56 AM
To: LAVENDER Sven; CIR Fire Team; Fire Advice; DARGUSCH Marc; HARVEY Peter; YETMAN Brendon
Cc: GREEN John; KUSKIE James; VIVIAN David; Chris Hanlon; Michael Koch
Subject: RE: Duling WF - 0900 SIT REP

Good morning all,

Tuesday 4.11.2020 Morning 0900 SITREP

- Winds turning northerly on Thursday, returning ESE Friday through to Tuesday with possible rain Sunday.
- Internet and mobile phones still intermittent at Dundubara
- Some active and smoke can be seen along beachfront in south Wyuna camp zone and large plume of smoke behind Wyuna camping area
- Active fire present south west / west of Orchid Beach township burning between burnt country – being monitored by RFS and QPWS staff

- Main fire still approximately 3k from Awinya break, still travelling in Nth Westerly direction into patches of unburnt ground.
- Remote sensing and observations still showing fire active in centre of island between Burad camping zone and Towoi creek visible, smoke blowing towards Wathumba area ; and at Rooney's point
- One crew on patrol today
- Planned to patrol Awinya FB each day
- Two crews available from SMU if required
- Dundubara, Zone 7 and western beach camping areas CLOSED till further notice
- Wathumba campground and Teebing camping area reopening today (park alert updated)
- Strategy - Contain any active fire north of Awinya control line.
- Main threat - fire reactivated over the weekend and pushed by northerly winds. Still several patches of active fire north of Awinya Firebreak mainly in more densely timbered country at present. Wind is currently SE with forecast during week for Northerly on Thursday and some of Friday, then returning to E/SE for rest of week. Northern side of firebreak has low – mod fuel loads due to planned burn completed four years ago.
- Firebreak being slashed today along Awinya FB on the western side from Awinya gate to Western beach.
- Tactics – Still low chance of fire crossing Awinya Firebreak by Friday, however teams to be mobilised to Dundubara by tomorrow to watch and wait, then where required as fire meets the Awinya break undertake back burn operations if required to ensure entire black edge post southerly wind change (likely to be from Friday afternoon onwards).
- Fall back – Bowarrady Firebreak has been swept already out to Awinya Link Road intersection

Resource Planning

IC

Wed - Fri – Linda Behrendorff

Sat-Sun Linda or TBA

Logistics Support

Jenna Tapplly – Di Bowman

Ground Crews

Personal info sick until at least Friday (Personal away until 5th also), leaving one crew on NMU from Wednesday to Friday
Additional crews from SMU (2); NRM (1) and Cooloola (2) + IC being sourced for Thursday-Sunday.

Ground Crews

Personal info sick until at least Friday (Personal away until 5th also), leaving only one crew on NMU + IC from Wednesday to Friday

Thank you all for the ongoing work and support received and offered in this wildfire space.

'The legacy you leave for colleagues emerging behind you, is how you allow yourself to be treated by others.'



Linda Behrendorff

Ranger in Charge, Natural Resource Management
Great Sandy National Park – K'gari (Fraser Island) & Cooloola
Coastal and Island Parks - Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

P 07 4127 9128

M Personal info

I acknowledge and pay my respect to Traditional Owners as the Custodians of the Lands and Seas on which I walk, work and live on.

Date : 25/11/2020 7:15:56 AM

From : "CAMBOURN Neil"

To : "CUBIS Mick"

Cc : "DARGUSCH Marc" , "CONNOR Nathan" , "CIR Fire Team" , "MACDONALD Stirling" , "SEELEITHER Jamie" , "YETMAN Brendon" , "HARVEY Peter" , "LAWTON Colin" , "EMBREY Teena" , "HEAD Damien" , "KLAASSEN Ben"

Subject : Re: Duling Wildfire K'Gari - update for 25/11/2020 as at 0600

Attachment : image004.png;image005.jpg;image006.jpg;image007.png;

Good news folks, thanks. Don't skimp on resources. If you need more people on the line we will get them for you.

Regards Neil Cambourn

On 25 Nov 2020, at 6:57 am, CUBIS Mick <Mick.Cubis@des.qld.gov.au> wrote:

Thanks Marc, appreciate the update and it's good to see the wind change has come through.

I have already done this morning's media update, but it pretty much aligns with what you have provided, so that's all good. Also good to see the IMT scaled up. I still haven't had any feedback about the recommendation for QFES to take over responsibility for the fire so we will continue to be the lead until notified otherwise.

Good work all and I look forward to the regular updates.

thanks

Mick Cubis

Regional Director, Coastal and Islands Region

GBRMC | QPWS & Partnerships

Department of Environment and Science

P: 07 54471137 M: Personal info

240 Moorindil Street, Tewantin

Qld 4565

mick.cubis@des.qld.gov.au

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>

Sent: Wednesday, 25 November 2020 6:39 AM

To: CUBIS Mick

Cc: CONNOR Nathan; CIR Fire Team; MACDONALD Stirling; SEELEITHER Jamie; YETMAN Brendon; HARVEY Peter; LAWTON Colin; EMBREY Teena

Subject: Duling Wildfire K'Gari - update for 25/11/2020 as at 0600

Hi Mick – We'll embed the 0900/1500 SitReps today again – pretty hard for IC/IMT as the new IMT came together yesterday. They've organised for QFES demountable unit to be dropped at Rainbow Office carpark and will work out of that space IMT too large to fit in Rainbow as it grew yesterday to fit need/demands. I'll be working further with IC/IMT to bed down a Comms officer to better deal with communicating outwards (in QFES speak ... a PIO – they love acronyms). I want to ensure key stakeholders are getting the one consistent message (has been a prob).

In case you are doing media

- The southerly change came through and fire weather conditions have eased on the fire ground.
- Four major components to fire:
 - Fire in South
 - The intent is to hold the wildfire on a southern fire control line (Smith-Poyungan/Cornwalls Road).
 - A range of options at IMT disposal with some already implemented which include: mechanical work on break, aerial support (waterbombing/aerial ignition) and back burning.
 - Happy Valley – no immediate threat, watching brief with good prep work undertaken.
 - Cathedrals on Fraser – no immediate threat, watching brief with good prep work undertaken.
 - Sandy Cape – no immediate threat, watching brief with good prep work undertaken.

All in all feeling much better with cooler southerly conditions. Time for taking action whilst we can. I'll bed down planning with appropriate docs during day so everyone in alignment.

Regards, Marc

From: DARGUSCH Marc
Sent: Tuesday, 24 November 2020 1:32 PM
To: HEAD Damien; CUBIS Mick; CAMBOURN Neil
Subject: FW: Duling Wildfire K'Gari 24/11/2020 as at 1230

Hi Mick/Damien/Neil - Situation @ 1300hrs 20201124:

- The main fire continues to move in a south easterly direction with poor fire weather conditions on the island.
- The community of Happy Valley is potentially under threat within the next 24hrs *although* the latest mapping and predictions indicate this threat has abated with an improved forecast. QFES, RFS, QPWS and QPS, Ambulance are working together to prepare the community. It is worth noting that the fire has not yet exited the closed forest into the dryer eastern vegetation types.
- Forecast wind change easterly at about 4.00am 25/11/2020 will further lessen the current risk to Happy Valley.
- Fire to the south has now just over the Bogimbah Track.
- Other sectors:
 - Active fire at the north of the island at Sandy Cape sector is being monitored.
 - Cathedral Beach sector is blacking out.
- IMT has relocated and ramped up (refer attached pdf) to Rainbow Beach. Nathan Connor is now the IC.
- Divisional control is operating out of QPWS Dundabara.

Given the fire proximity to Happy Valley (and smaller communities to south including Yidney Rocks etc) + Kingfisher Bay Resort the current QPWS run IMT would be comfortable with QFES taking control if QFES happy to attempt to utilise the Smith-Poyungun Road as the southern control line & have QPWS on IMT with them.

Some fire predictions are contained below.

Regards, Marc



Marc Dargusch

Principal Ranger – Great Sandy Area
Coastal and Islands Region | QPWS and Partnerships
Department of Environment and Science

Personal P 07 54869960
Level 6, 12 on First Avenue, Maroochydore 4558
www.des.qld.gov.au

I give my respect to the traditional and custodial Aboriginal and Torres Strait Island Elders and Owners of the Land in which I work, live and walk.

Predicted fire spread details below as sourced from QFES FBAN imbedded in IMT Rainbow;

Fire spread prediction generated this morning for Fraser Island - Happy Valley.

The image below is for 14:00 hrs today & 0100 hrs Wednesday. The Simulation runs through to 25th November in the attached KMZ file, but this will be revised throughout today as new mapping is made available.



Fire Spread to 14:00hrs 24-11-20



Fire Spread to 0100hrs 25th Nov 2020

Assumptions used to develop this prediction:

- Active fire edge as determined by Air Obs at 08:20hrs 24-11-20 have been used.
- No active fire suppression is being undertaken.
- No additional backburning has been undertaken.
- Phoenix standard inputs have not been adjusted.
- Weather is from BOM grids downloaded this morning.



John Atkinson
Senior Project Officer
Fire Team | Queensland Parks and Wildlife Service
Department of Environment and Science
P 07 4999 8533 | E John.Atkinson@des.qld.gov.au
Level 5 | 44 Nelsen Street | Mackay

Published on DES Disclosure Log
RTI Act 2009

Date : 15/10/2020 3:21:16 PM
From : "CAMBOURN Neil"
To : "CUBIS Mick", "HEAD Damien"
Cc : "DARGUSCH Marc"
Subject : RE: Duling Wildfire sitrep 1200pm
Attachment : image001.png;image002.png;image004.png;
Thanks Mick



Neil Cambourn
Assistant Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science
P 07 3199 7518 M **Personal info**
Level 5, 400 George Street, Brisbane QLD 4000

From: CUBIS Mick <Mick.Cubis@des.qld.gov.au>
Sent: Thursday, 15 October 2020 3:20 PM
To: HEAD Damien; CAMBOURN Neil
Cc: DARGUSCH Marc
Subject: FW: Duling Wildfire sitrep 1200pm

Damien and Neil,

Midday sitrep fyi. All looking ok.

thanks

Mick Cubis
Regional Director, Coastal and Islands Region
GBRMC | QPWS & Partnerships
Department of Environment and Science

P: 07 54471137 M **Personal info**
240 Moorindil Street, Tewantin
Qld 4565
mick.cubis@des.qld.gov.au

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>
Sent: Thursday, 15 October 2020 3:06 PM
To: CUBIS Mick
Cc: SEELEITHER Jamie; HARVEY Peter; YETMAN Brendon; EMBREY Teena; KLEKAR John
Subject: FW: Duling Wildfire sitrep 1200pm

From: KUSKIE James <James.Kuskie@des.qld.gov.au>
Sent: Thursday, 15 October 2020 12:19 PM
To: DARGUSCH Anthony; HARVEY Peter; LAVENDER Sven; GREEN John; DARGUSCH Marc
Subject: Duling Wildfire sitrep 1200pm

Temp 28.1, Hum 48% Wind 15kph SE.

Duling camp zone is cleared of campers and has been burnt out with no active fire in there at present.
Ocean lake campers have been directed to move by DES staff and at present there are still 3 camps packing up and will be gone within the hour.

At present the fire is still traveling in a N/NW direction approx. 500m to 1klm in land.
The S flank of the fire has travelled approx. 1klm S of Orange creek and the SE edge is 100m from the beach and approx. 200m south of Orange creek.

There are currently 2 QPWS fire units on scene preparing around infrastructure and also directing campers to leave. Signage and park alerts have been installed in the area.

I will do another Sitrep at 3pm but if you have any questions feel free to give me a call.

Thanks.



James Kuskie
004 Ranger K'gari (Fraser Island) North
Coastal and Islands Region / QPWS & Partnerships
Department of Environment and Science

P 07 41 279 138 Ext 9
Dundubara, Fraser Island

Published on DES Disclosure Log
RTI Act 2009

Date : 5/11/2020 4:41:31 PM
From : "CAMBOURN Neil"
To : "CUBIS Mick" , "KLAASSEN Ben"
Cc : "SPINKS Troy" , "HARRIS Leigh"
Subject : Re: DulingCZ WF K'gari - Thursday 5.11.2020 afternoon 14:30 SITREP-update
Attachment : image003.png;

Thanks Mick, the piccis are pretty impressive! Has burnt a fair bit of country now.

Regards Neil Cambourn

On 5 Nov 2020, at 4:24 pm, CUBIS Mick <Mick.Cubis@des.qld.gov.au> wrote:

Hi guys, latest update FYI. May need to consider some backburning tomorrow.

Mick Cubis
Regional Director
Coastal and Islands | QPWS&Partnerships
Department of Environment and Science
P (07) 54471137 | Mobile Personal info

Begin forwarded message:

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>
Date: 5 November 2020 at 3:53:37 pm AEST
To: CUBIS Mick <Mick.Cubis@des.qld.gov.au>
Cc: MACDONALD Stirling <Stirling.MacDonald@des.qld.gov.au>
Subject: FW: DulingCZ WF K'gari - Thursday 5.11.2020 afternoon 14:30 SITREP-update

Hiya – the latest

M

From: BEHRENDORFF Linda <Linda.Behrendorff@des.qld.gov.au>
Sent: Thursday, 5 November 2020 3:49 PM
To: CIR Fire Team; Fire Advice; DARGUSCH Marc; HARVEY Peter; YETMAN Brendon
Cc: TOMS Merv; PALMER Matt; GREEN John; VIVIAN David; Chris Hanlon; Michael Koch; BURNS Malcolm; KUSKIE James; LAVENDER Sven; SEELEITHER Jamie
Subject: DulingCZ WF K'gari - Thursday 5.11.2020 afternoon 14:30 SITREP-update

SITREP 14:30

- QFES Air operations advised fire is ~3km from sand blow travelling in a SE direction and not expected to cross the break today (images attached)
- NNW wind change expected to slightly change the direction of the front in a southerly direction.
- Crews are traversing the line as a famil for tomorrows proposed activities and expected to return via Bowarady firebreak.
- Truck to remain at the Bowarady link road.
- Sprinklers running on the northern Dundubara accommodation
- Image 1708 is Orchid Beach activity within the burn block and protected by mitigation burn.

Proposed activity

Watch and wait until tomorrows wind change.

Proceed with original proposal if approved – spot light on southerly winds between Milby's dune and Jim's corner.

Dundubara issues won't allow me to send images mentioned within.

'The legacy you leave for colleagues emerging behind you, is how you allow yourself to be treated by others.'



Linda Behrendorff

Ranger in Charge, Natural Resource Management

Great Sandy National Park – K'gari (Fraser Island) & Cooloola

Coastal and Island Parks - Queensland Parks and Wildlife Service & Partnerships

Department of Environment and Science

P 07 4127 9128

M **Personal**

I acknowledge and pay my respect to Traditional Owners as the Custodians of the Lands and Seas on which I walk, work and live on.

Published on DES Disclosure Log
RTI Act 2009

Date : 15/10/2020 11:19:30 AM

From : "CAMBOURN Neil"

To : "CUBIS Mick"

Subject : RE: K'gari Wildfire Duling CZ

Attachment : image001.png;image003.png;image004.png;image006.png;image008.png;

Very good mate thanks!



Neil Cambourn

Assistant Director-General

Queensland Parks and Wildlife Service and Partnerships

Department of Environment and Science

P 07 3199 7518 M **Personal info**

Level 5, 400 George Street, Brisbane QLD 4000

From: CUBIS Mick <Mick.Cubis@des.qld.gov.au>

Sent: Thursday, 15 October 2020 11:15 AM

To: CAMBOURN Neil; HEAD Damien; TRACEY Alena

Cc: Media DES; DARGUSCH Marc; MACDONALD Stirling

Subject: RE: K'gari Wildfire Duling CZ.

I think the gate was removed during the Newman regime, but the road is closed to visitors, and only open to locals. We will definitely check that no one is in harms way.

Mick Cubis

Regional Director, Coastal and Islands Region

GBRMC | QPWS & Partnerships

Department of Environment and Science

P: 07 54471137 M **Personal info**

240 Moorindil Street, Tewantin

Qld 4565

mick.cubis@des.qld.gov.au

From: CAMBOURN Neil <Neil.Cambourn@des.qld.gov.au>

Sent: Thursday, 15 October 2020 11:03 AM

To: CUBIS Mick; HEAD Damien; TRACEY Alena

Cc: Media DES; DARGUSCH Marc; MACDONALD Stirling

Subject: RE: K'gari Wildfire Duling CZ.

Sounds good Mick, it will probably be a good conservation outcome.

Might be a few horses displaced? Also can we check that we don't have any Orchid Beach locals or boaties over at Platypus Bay if/ once it gets closer. Do we still have the gate on Platypus Bay road?



Neil Cambourn

Assistant Director-General

Queensland Parks and Wildlife Service and Partnerships

Department of Environment and Science

P 07 3199 7518 M **Personal info**

Level 5, 400 George Street, Brisbane QLD 4000

From: CUBIS Mick <Mick.Cubis@des.qld.gov.au>

Sent: Thursday, 15 October 2020 9:50 AM

To: CAMBOURN Neil; HEAD Damien

Cc: Media DES; DARGUSCH Marc; MACDONALD Stirling

Subject: FW: K'gari Wildfire Duling CZ.

Latest update on the current situation,

thanks

Mick Cubis

Regional Director, Coastal and Islands Region

GBRMC | QPWS & Partnerships

Department of Environment and Science

P: 07 54471137 M **Personal info**

240 Moorindil Street, Tewantin

Qld 4565

mick.cubis@des.qld.gov.au

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>

Sent: Thursday, 15 October 2020 9:44 AM

To: CUBIS Mick

Cc: SEELEITHER Jamie; YETMAN Brendon; HARVEY Peter; MACDONALD Stirling; EDMED Greg; EMBREY Teena; KLEKAR John

Subject: K'gari Wildfire Duling CZ.

Hi Mick – just a bit of a heads up on the K'gari wildfire.

- The attached indicates location/wildfire extent.
- The crew are currently removing campers from the Ocean Lake Camp Zone,. There is a watching brief on the need to close Marloo CZ although, no need currently.
- ParkAlerts + behind the scenes booking system work will be coordinated by PC-Eurong.
- TS – Fire are interacting with QFES to ensure they are fully briefed and feeding info to IC RE:Modelling/resourcing options.
- Feedback is that the fire is pumping out plenty of smoke as it is in the swamp associated with Ocean Lake still all under control.
- Current thinking is we are in a watching space with time to evaluate due to diminishing SE influence.

I've included a link/excerpt from Flame below + the next SitRep is planned for midday today.

Regards, Marc



Marc Dargusch

Principal Ranger – Great Sandy Area

Coastal and Islands Region | QPWS and Partnerships

Department of Environment and Science

M **Personal** P 07 54869960

Level 6, 12 on First Avenue, Maroochydore 4558

www.des.qld.gov.au

I give my respect to the traditional and custodial Aboriginal and Torres Strait Island Elders and Owners of the Land in which I work, live and walk.

Flame capture:

- https://flame.npsr.qld.gov.au/FLAME/app.aspx?fw_menu=fls&fls_tab=flswip&assocheaddetsde10_k_id=13318488
- Flame details print below:

Fire Lifecycle Great Sandy National Park/NP/W/2020/002 (#13318488)

Burn Type:	Wildfire	Fire Name:	Duling
Fire Stage:	Update	Park:	Great Sandy National Park (#12359094)
Location Type:	On Estate	Agency:	QPWS (#1395420)

Fire Details

Latest Situation Reported

Situation Report Entered By: James Kuskie (#13192930)15-Oct-2020 8:03:22 AM
External to Department
No

Situation Report Info Reported By: James Kuskie (#13192930)15-Oct-2020 8:08:00 AM

Detected By

External to Department
Yes
Detected By Name
Paul Fishburn

Incident Controller: James Kuskie (#13192930)15-Oct-2020 1:30:00 AM
Organisation: QPWS

Fire Status

Fire Status: Going Contained Safe Out
Fire Severity: (Refer to severity tables for details)
Patchy Low Moderate High Very High Extreme Unknown Not Assessed
AIIMS Category of Incident: Level 1 Level 2 Level 3

Values Threatened

Principle Value Threatened:	Life	Property	Environmental	Production	None
Secondary Value Threatened:	Life	Property	Environmental	Production	None

Fire Responsibility

Current Fire Responsibility: (Agency or Incident controller currently managing this fire)
QPWS

Number of Resources

This is the resources currently at the fire ground.
Number of QPWS staff present: 3
Number of other personnel present: 0

Number of QPWS fire units present: 2
Number of other agency fire units present: 0

Control Strategy

Control Strategy: Control Mop-up Patrol (on-site) Monitor (remotely)

General Comments

Provide brief comment on current actions, predictions or other information relevant to the fire.
Should include time/date of comment, current incident controller and contact phone number, and control objective.
All previous advice will be made visible in order of reporting, but cannot be changed only updated.

General 14.10.2020 AD 1440_ Fire phoned in to QPWS by Paul Fishburn (Orchid Beach Rural fire brigade) @ 130pm. Fire located at the southern end of Duling camping area - Ignition cause - Campfire escaped. JT & GOC on scene. JT incident control. JT & GOC suppress fire flank that was progressing towards nearby camps. Fire is progressing in a NW manner with flame height 0.5 - 1m. JT & GOC currently notifying nearby camps & directing camps within duling camping area to move. Another QPWS crew from dundubara currently on route to assist.
15.10.20 0800 JRK incident controller. 2 QPWS crew on ground monitoring situation GOC PA AR. Fire has moved 2.5klms towards the N just past Ngkala Rocks bypass and 500m towards the south into Orange creek. Wind speed 15kph, 23 degrees, Hum 60%. Campers being evacuated out of area.

From: KUSKIE James <James.Kuskie@des.qld.gov.au>
Sent: Thursday, 15 October 2020 9:03 AM
To: HARVEY Peter; LAVENDER Sven; GREEN John; PALMER Matt; DARGUSCH Anthony
Subject: Wildfire Duling CZ.

Attached is the latest imagery we have for the situation as Duling CZ wildfire.

The fire has travelled approximately 2.5 klms to the north and is just past Ngkala Rocks bypass and in about 500m inland from the coast. It has also travelled 500m South and in the swamp behind Orange creek.
At present we are evacuating the Ocean lake CZ and have requested a Park alert for the closure of Ocean lake CZ and Duling CZ.

At present there are 2 QPWS units on site monitoring the situation and moving campers out of Ocean lake.

If you have any questions feel free to give me call on 0497 136 354.



James Kuskie
004 Ranger K'gari (Fraser Island) North
Coastal and Islands Region / QPWS & Partnerships
Department of Environment and Science

P 07 41 279 138 Ext 9
Dundubara, Fraser Island
PMB 20 MS 2173
Rainbow Beach QLD 4581

Date : 15/10/2020 8:11:41 AM

From : "CAMBOURN Neil"

To : "CUBIS Mick"

Cc : "HEAD Damien" , "Media DES" , "DARGUSCH Marc" , "MACDONALD Stirling"

Subject : Re: Ocean Lake Wildfire Sitrep 1 @ 1700 14/10/20

Attachment : image003.png;

Thanks Mick, can you pls provide an update on conditions this morning once they have assessed conditions.

Regards Neil Cambourn

Sent from my iPhone

On 15 Oct 2020, at 7:27 am, CUBIS Mick <Mick.Cubis@des.qld.gov.au> wrote:

FYI

Mick Cubis

Regional Director

Coastal and Islands | QPWS&Partnerships

Department of Environment and Science

P (07) 54471137 | Mobile Personal info

Begin forwarded message:

From: BEHRENDORFF Linda <Linda.Behrendorff@des.qld.gov.au>

Date: 14 October 2020 at 4:59:31 pm AEST

To: CUBIS Mick <Mick.Cubis@des.qld.gov.au>, CIR Fire Team <CIR.FireTeam@des.qld.gov.au>

Cc: HARVEY Peter <Peter.Harvey@des.qld.gov.au>, YETMAN Brendon <Brendon.Yetman@des.qld.gov.au>, DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>, DARGUSCH Anthony <Anthony.Dargusch@des.qld.gov.au>, "THOMPSON Jeremy Daniel (DES)" <Jeremy.Thompson@des.qld.gov.au>, GREEN John <John.Green@des.qld.gov.au>, BUTTSWORTH Scott <Scott.Buttsworth@des.qld.gov.au>

Subject: Ocean Lake Wildfire Sitrep 1 @ 1700 14/10/20

Hi,

- Wildfire reported via OBRFS to Jeremy at approximately 1330
- Jeremy and Gavin attended scene with Orchid Beach RFS
- Fire located in Duling Camping zone, North of Orange Creek, North eastern K'gari
- Source of fire found to be abandoned campfire that was covered with sand – campers responsible not present
- Currently 3 camps in the area, two packing up to move. Other camp not present (attempts were made to contact them through booking system, but not answering phones)
- Presently one crew on site protecting the camp , fire approximately 40 meters away at 1430, crew to remain until campers return or site secured.
- Fire is deemed not to be containable, high fuel loads and strong south east winds pushing it inland
- Campers in Ocean Lake camp zone not under direct threat at present, but may need to move in the future.
- Orchid beach township protection burns all completed this year, unlikely township will be threatened
- Anthony has done initial FLAME SitRep and Maryborough QFES updated on situation
- Jeremy to update FIRECOM

Regards,

Sven Lavender.

'The legacy you leave for colleagues emerging behind you, is how you allow yourself to be treated by others.'



Linda Behrendorff

Ranger in Charge, Natural Resource Management

Great Sandy National Park – K'gari (Fraser Island) & Cooloola

Coastal and Island Parks - Queensland Parks and Wildlife Service & Partnerships

Department of Environment and Science

P 07 4127 9128

M Personal info

I acknowledge and pay my respect to Traditional Owners as the Custodians of the Lands and Seas on which I walk, work and live on.

Date : 19/10/2020 1:01:28 PM
From : "CAMBOURN Neil"
To : "HEAD Damien"
Subject : RE: RE: QF4-20-116117 Sitrep
Attachment : image001.png;image002.png;image004.png;
Thanks



Neil Cambourn
Assistant Director-General
Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science
P 07 3199 7518 M **Personal info**
Level 5, 400 George Street, Brisbane QLD 4000

From: HEAD Damien <Damien.Head@des.qld.gov.au>
Sent: Monday, 19 October 2020 12:55 PM
To: CAMBOURN Neil
Subject: FW: RE: QF4-20-116117 Sitrep

From: DARGUSCH Marc <Marc.Dargusch@des.qld.gov.au>
Sent: Monday, 19 October 2020 12:33 PM
To: CUBIS Mick
Cc: HEAD Damien
Subject: FW: RE: QF4-20-116117 Sitrep

Mick – Latest SitRep below. Will provide preferred Fire Management Plan including further IMT detail (with note QFES Liaison Officer in place at Dundy) this PM. QFES looking to run community meet mid-arvo for Orchid Beach Community. More info as it comes to hand.

Confirm following closed due to wildfire:

- Platypus and Wathumba tracks.
- Camping:
 - Zone 8 –Duling CZ (fire origin), Ocean Lake CZ & Marloo CZ.
 - Wathumba Camping Area.
 - Camp zones within stretch from Wathumba Creek to Awinya Creek.

Regards, M

From: KUSKIE James <James.Kuskie@des.qld.gov.au>
Sent: Monday, 19 October 2020 12:21 PM
To: DARGUSCH Marc; YETMAN Brendon; GREEN John; LAVENDER Sven
Cc: CIR Fire Team
Subject: RE: QF4-20-116117 Sitrep

As of 1200pm

Fire is still traveling in S direction and just got news from the spotter plane at 1200pm there is not a large fire front but a few small ones. In the past 4 hours it seems to have only moved south a further 100m.

We have 1 QPWS crew on site monitoring the situation and 1 tractor removing fallen trees.

RFS are assisting in monitoring the situation from the township with 3 more units on route to assist from mainland. QFRES liaison officer are with IMT at Dundubara.



James Kuskie
004 Ranger K'gari (Fraser Island) North
Coastal and Islands Region / QPWS & Partnerships
Department of Environment and Science

P 07 41 279 138 Ext 9
Dundubara, Fraser Island
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