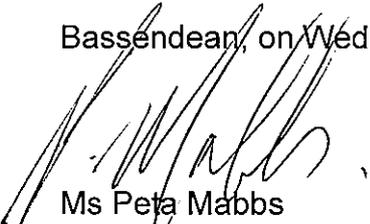


TOWN OF BASSENDEAN
NOTICE OF A MEETING OF THE
BASSENDEAN LOCAL EMERGENCY MANAGEMENT
COMMITTEE

Dear Committee Member

A meeting of the Bassendean Local Emergency Management Committee of the Town of Bassendean will be held in the Council Chamber, 48 Old Perth Road, Bassendean, on Wednesday, 4 September 2019, commencing at 3.30pm.


Ms Peta Mabbs
CHIEF EXECUTIVE OFFICER

30 August 2019

1.0 DECLARATION OF OPENING/ANNOUNCEMENT OF

Acknowledgement of Country

The Town of Bassendean acknowledges the past and present traditional owners of the land on which we gather to conduct this meeting, and pays its respects to their Elders, both past and present.

2.0 ATTENDANCES, APOLOGIES AND APPLICATIONS FOR LEAVE OF ABSENCE

Apologies

Cr Mykytiuk

3.0 DEPUTATIONS

4.0 CONFIRMATION OF MINUTES

4.1 Minutes of the Bassendean Local Emergency Management Committee meeting held on 5 June 2019

COMMITTEE/OFFICER RECOMMENDATION – ITEM 4.1

That the minutes of the BLEMC meeting held on 5 June 2019, be confirmed as a true record. (Refer to **Attachment 1**).

5.0 ANNOUNCEMENTS BY THE PRESIDING PERSON WITHOUT DISCUSSION

6.0 DECLARATIONS OF INTEREST

7.0 BUSINESS DEFERRED FROM PREVIOUS MEETING

8.0 OFFICER REPORTS

8.1 Flood Mitigation Project - Update

The Town of Bassendean has completed the mapping of the flood markers. It was reported at the June meeting that the Town of Bassendean will install the flood markers through the utilisation of internal resources. This has now been completed.

OFFICER RECOMMENDATION – ITEM 8.1

That the information on the Flood Mitigation Project be received.

8.2 Town of Bassendean Review of Council Committees Structure.

The Town of Bassendean endorsed a new Caretaker Period Policy at the Ordinary Council Meeting held 27/8/19. As part of that policy, Council has disbanded all Committees with the exception of the Audit and Governance Committee, the Bassendean Local Emergency Committee and the Town Assets Committee.

Membership of the Bassendean Local Emergency Committee will remain unchanged post appointment of the new Council.

OFFICER RECOMMENDATION – ITEM 8.2

That the information on the Town of Bassendean review of Council Committees structure be received.

8.3 Local Government Emergency Risk Management Project Report

The Town of Bassendean is currently a participant in the State Risk Assessment Project Local. The Town of Bassendean has completed assessment of three hazards those being:

- Heatwave;
- Air Crash; and
- HAZMAT (Chemical substance)

The Town of Bassendean will participate in a workshop to be hosted by the City of Canning on Wednesday 25 September 2019 where the storm and flood hazards will be assessed. The risk report has been amended to reflect the assessment of the Air Crash and HAZMAT hazards. (Refer to **Attachment 2**).

OFFICER RECOMMENDATION – ITEM 8.3

That the Risk Management Project Report be accepted and that the current version of the Town of Bassendean Risk Report be noted.

8.4 Town of Bassendean LEMC Business Plan

The Town of Bassendean LEMC Business Plan was adopted at the June 2019 meeting of the LEMC. The LEMC should discuss a tabletop exercise and relevant detail in line with SEMC Policy 4.8.

OFFICER RECOMMENDATION – ITEM 8.4

That the Town of Bassendean LEMC adopt the outcome of the annual exercise discussion.

8.5 Emergency Management Agency Reports

SEMC Business Unit

The SEMC Business Unit Report will be tabled at the meeting by Merveen Cross.

District Emergency Management Committee (DEMC)

The Central DEMC Minutes will be circulated when received.

WALGA EMAG

The WALGA EMAG minutes will be distributed when received.

Local Welfare Committee

No meeting has been conducted in the past quarter.

OFFICER RECOMMENDATION – ITEM 8.5

That the Emergency Management Agency Reports be received.

8.6 Post-Incident Reports and Post Exercise Reports

The Committee has requested all HMA's routinely forward post incident reports to the Town for presenting to LEMC.

Any relevant post incident and post exercise reports are to be tabled at the meeting.

OFFICER RECOMMENDATION– ITEM 8.6

That post incident and post exercise reports be received.

8.7 Contact Details and Key Holders

The current Contact Details and Key Holders' details will be circulated at the meeting for any update requirements.

The LEMC Executive Officer is in the process of updating the ToB Contacts and Resources Register. Following confirmation of several administrative positions and responsibilities, the document will be amended and presented to the December meeting of the LEMC.

OFFICER RECOMMENDATION – ITEM 8.7

That the Committee members' contact details be confirmed, as amended.

8.8 Preparedness, Prevention, Response and Recovery Issues

Members are invited to discuss:

- preparedness issues;
- prevention issues;
- response issues; and
- recovery issues. (Inward correspondence received from DFES regarding the appointment of a State Recovery Coordinator. (Refer to **Attachment 3**).

OFFICER RECOMMENDATION – ITEM 8.8

That Preparedness, Prevention, Response and Recovery Issues raised, be received.

9.0 MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN

10.0 ANNOUNCEMENTS OF NOTICES OF MOTION FOR THE NEXT MEETING

11.0 CONFIDENTIAL BUSINESS

ATTACHMENT NO. 1

TOWN OF BASSENDEAN

MINUTES

BASSENDEAN LOCAL EMERGENCY MANAGEMENT COMMITTEE HELD IN THE COUNCIL CHAMBER, 48 OLD PERTH ROAD, BASSENDEAN ON WEDNESDAY 5 JUNE 2019, AT 3.30PM

1.0 DECLARATION OF OPENING/ANNOUNCEMENT OF VISITORS

The Acting Presiding Member declared the meeting open, welcomed all those in attendance and conducted an Acknowledgement of Country.

2.0 ATTENDANCES, APOLOGIES AND APPLICATIONS FOR LEAVE OF ABSENCE

Members

Snr Sgt Matt McCaughey, Kiara Police, Acting Presiding Member
Cr Melissa Mykytiuk
Cr Kathryn Hamilton
Sharna Merritt, Senior Ranger
Ryan Hamblion, Department for Communities
Graeme Haggart, Director Community Development
Ken Cardy, Manager Parks & Environment (from 3.50pm)

Staff

John Lane, Emergency Management Officer/XO
Amy Holmes, Minute Secretary

Apologies

Cr Bob Brown, Presiding Member
Jeff Somes, Environmental Health Officer
Gordon Munday, Manager Bassendean SES Unit

3.0 DEPUTATIONS

Nil

4.0 CONFIRMATION OF MINUTES

4.1 Minutes of the Bassendean Local Emergency Management Committee meeting held on 6 March 2019

COMMITTEE/OFFICER RECOMMENDATION – ITEM 4.1

MOVED Sharna Merritt, Seconded Cr Mykytiuk, that the minutes of the BLEMC meeting held on 6 March 2019, be confirmed as a true record.

CARRIED UNANIMOUSLY 6/0

5.0 ANNOUNCEMENTS BY THE PRESIDING PERSON WITHOUT DISCUSSION

Nil

6.0 DECLARATIONS OF INTEREST

Nil

7.0 BUSINESS DEFERRED FROM PREVIOUS MEETING

Nil

8.0 OFFICER REPORTS

8.1 Flood Mitigation Project - Update

The Town of Bassendean has completed the mapping and is in possession of flood markers for installation. A decision will need to be made by the Town of Bassendean as to the engagement of suitable contractors for the completion of the installation of flood markers.

The Bassendean SES have advised that they are unable to complete this project and therefore an additional point was added to the recommendation.

COMMITTEE/OFFICER RECOMMENDATION – ITEM 8.1

BLEMC – 1/06/19 MOVED Cr Hamilton, Seconded Cr Mykytiuk, that:

1. The information on the Flood Mitigation Project be received; and

2. The Committee notes the recommendation that the markers will now be installed by contractors, yet to be appointed, rather than the SES, to be completed by 30 June 2019.

CARRIED UNANIMOUSLY 6/0

Item 8.2 was deferred for discussion later in the meeting.

8.3 Town of Bassendean LEMC Business Plan

Ken Cardy, Manager Parks & Environment, joined the meeting at 3.50pm.

In line with State Emergency Preparedness Procedure 7, the Executive Officer should:

- Coordinate the development and submission of committee documents in accordance with legislative and policy requirements including an Annual Report, Annual Business Plan and maintenance of LEMAs.

The Executive Officer has prepared the Town of Bassendean's LEMC Business Plan for discussion and adoption.

COMMITTEE/OFFICER RECOMMENDATION – ITEM 8.3

BLEMC – 2/06/19 MOVED Ken Cardy, Seconded Cr Mykytiuk, that the Town of Bassendean LEMC adopt the Business Plan 2019/20 subject to future amendments as required.

CARRIED UNANIMOUSLY 7/0

8.4 Emergency Management Agency Reports

SEMC Business Unit

The SEMC Business Unit Report will be circulated when received.

District Emergency Management Committee (DEMC)

The Central DEMC Minutes will be circulated when received.

WALGA EMAG

The WALGA EMAG minutes will be distributed when received.

Local Welfare Committee

No meeting has been conducted in the past quarter.

COMMITTEE/OFFICER RECOMMENDATION – ITEM 8.4

BLEMC – 3/06/19 MOVED Matt McCaughey, Seconded Sharna Merritt, that the Emergency Management Agency Reports be received.
CARRIED UNANIMOUSLY 7/0

8.5 Post-Incident Reports and Post Exercise Reports

The Committee has requested all HMA's routinely forward post incident reports to the Town for presenting to LEMC.

Any relevant post incident and post exercise reports are to be tabled at the meeting.

COMMITTEE/OFFICER RECOMMENDATION– ITEM 8.5

BLEMC – 4/06/19 MOVED Cr Mykytiuk, Seconded Graeme Haggart, that **the Committee notes that no post incident or post exercise reports have been received** at this time.
CARRIED UNANIMOUSLY 7/0

8.6 Contact Details and Key Holders

The current Contact Details and Key Holders' was circulated at the meeting for any update requirements.

COMMITTEE/OFFICER RECOMMENDATION – ITEM 8.6

BLEMC – 5/06/19 MOVED Sharna Merritt, Seconded Ken Cardy, that the Committee members' contact details be confirmed, as amended.
CARRIED UNANIMOUSLY 7/0

8.7 Preparedness, Prevention, Response and Recovery Issues

Ryan Hamblion

Emergency Welfare Training will be held on 25 June. The aim is to inform and prepare Departmental staff and key stakeholders from our partnering agencies on the operation of providing welfare services to the community during and after an emergency.

COMMITTEE/OFFICER RECOMMENDATION – ITEM 8.7

BLEMC – 6/06/19 MOVED Cr Mykytiuk, Seconded Ryan Hamblion, that Preparedness, Prevention, Response and Recovery Issues raised, be received.

CARRIED UNANIMOUSLY 7/0

8.2 Local Government Emergency Risk Management Project Report

The Town of Bassendean is currently a participant in the State Risk Assessment Project Local. The first hazard workshop dealing with Heatwave took place on 7 November 2018 at the City of Bayswater, hosted by officers from DFES Special Risks Section.

The Town of Bassendean is awaiting confirmation of the location and timing of the next workshop in the series.

In the interim, the LEMC should discuss the Heat Wave Risk Register to determine whether risk statements with a treatment priority of 1 or 2 meet the requirements for treatment at the local level.

The Committee discussed the heatwave treatment options. John Lane, Emergency Management Officer, recorded comments in the risk register, for future reference.

- *The Town can be more proactive in advertising facilities with air conditioning that people can go to, such as the library.*
- *Adopt a programme for the dissemination of information to the community.*

COMMITTEE/OFFICER RECOMMENDATION – ITEM 8.2

BLEMC – 7/06/19 MOVED Sharna Merritt, Seconded Cr Mykytiuk, that the **Committee notes** the treatment options **discussed** relative to the Heat Wave hazard and that details of **the** discussion **will** be added to the risk register for future reference during the treatment phase.

CARRIED UNANIMOUSLY 7/0

9.0 MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN

Nil

10.0 ANNOUNCEMENTS OF NOTICES OF MOTION FOR THE NEXT MEETING

Nil

11.0 CONFIDENTIAL BUSINESS

Nil

12.0 CLOSURE

The next meeting of the BLEMC is to be held on Wednesday 4 September 2019, commencing at 3.30pm.

There being no further business, the Presiding Member declared the meeting closed, the time being 4.30pm.

ATTACHMENT NO. 2



RISK MANAGEMENT REPORT

SEPTEMBER 2019

Table of Contents

RISK MANAGEMENT REPORT.....	1
SEPTEMBER 2019	1
Introduction	3
Workshop 1.....	4
Near Worst Case Scenario	4
Agency Situation Reports.....	6
Risk Analysis	9
Assessment Results.....	9
Summary of risk assessment	10
Risk Register - Heatwave	12
Workshop 2.....	13
Near Worst Case Scenario - HAZMAT	13
250 metre radius collapse – people trapped 60% deceased.....	15
Risk Analysis.....	15
Assessment Results.....	15
Summary of risk assessment	16
Risk Register – HAZMAT (Chemical Substance).....	17
Near Worst Case Scenario – Air Crash.....	19
Assessment Results.....	20

Summary of risk assessment 21
Risk Register – Air Crash 22
Workshop 3 – Flood and Storm 25

Introduction

In 2013, the State Emergency Management Committee (SEMC) initiated the State Risk Project, which was designed to gain a comprehensive and consistent understanding of the risks faced at state, district and local levels. Consequently, a series of state-level risk assessment workshops were held to assess the risks posed by seven sudden-onset natural hazards. The results were reported to the Commonwealth in 2013 and an update of the state's risk profile was delivered in 2017.

The State Risk Project uses both the methodology and criteria outlined in the National Emergency Risk Assessment Guidelines (NERAG) and internationally recognized standards for the risk assessment process (AS/NZS ISO 31000:2009). Assessments, based on a worst-case scenario event (and a near worst-case scenario event for State-level), are conducted in workshop settings. The scenarios are scalable for state, district and local levels and are tailored accordingly. This methodology ensures all data is consistent and can be compared.

The local level phase of the project commenced in 2017, with local government take-up, participation and support of the project being very strong. The aim of the local level component is to provide training, support and tools to local governments to assist them in undertaking the emergency risk management process (as required by existing policy).

The Town of Bassendean was invited to participate in the State Risk Project - Local program being conducted by the Office of Emergency Management a sub-department of the Department of Fire and Emergency Services (DFES). The TOB joined with the City of Swan, The City of Bayswater, City of Belmont and the Town of Victoria Park in risk workshops.

The TOB has identified the following hazards that are likely to impact to TOB should a worst-case scenario event occur in the future:

- Heatwave
- Storm
- Flood
- Earthquake
- HAZMAT
- Air Crash

Workshop 1

The first workshop to examine a heatwave event as a source of risk was conducted on 7 November 2018 hosted by the City of Bayswater.

Near Worst Case Scenario

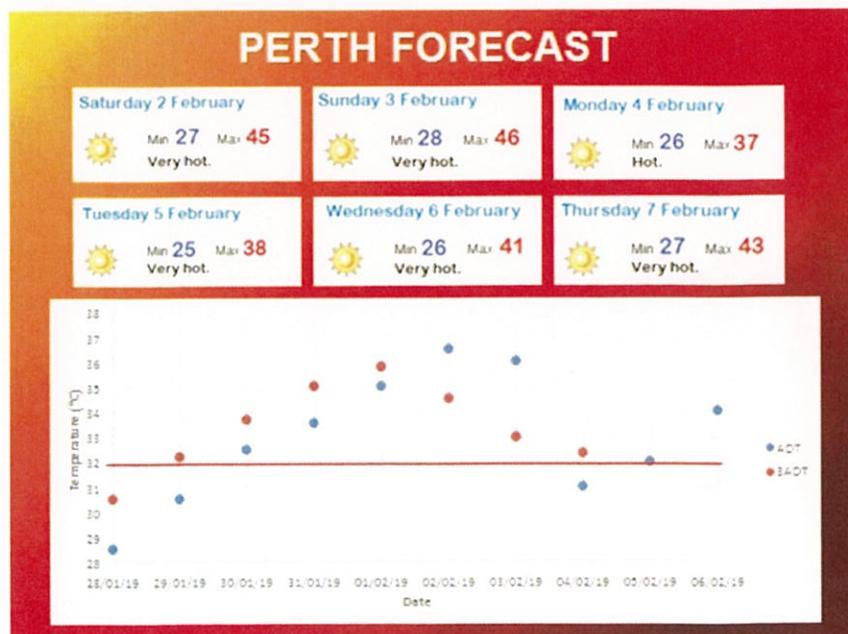
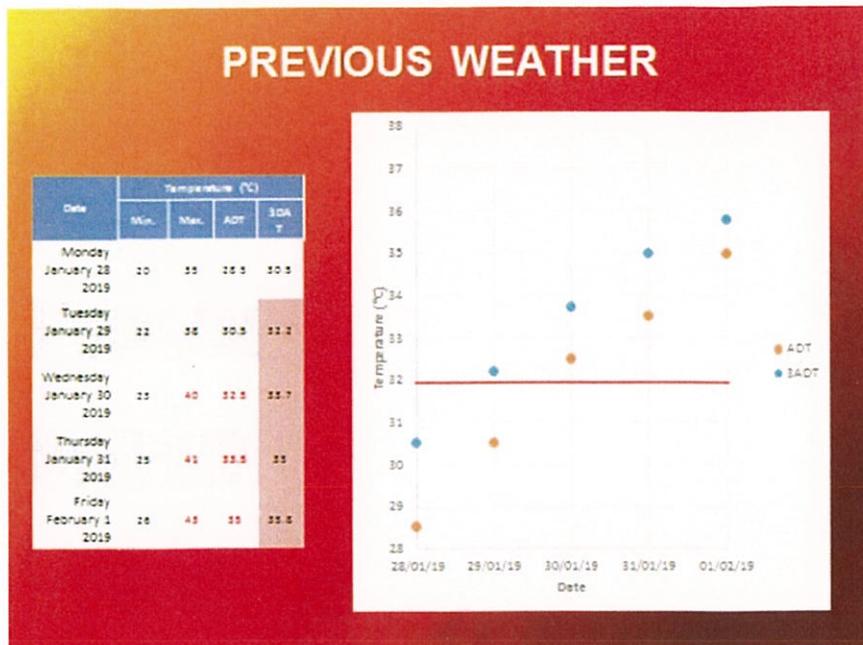
Assisted by State agencies, the following near worst case scenario for the hazard of heatwave was presented.

It is approaching the end of the holiday season. We have just had a mild December through the south. For the month of January, Perth has experienced an average max of 31°C which included three separate occasions of 40°C, but all were followed by a significant temperature decrease the following day.

- It is Friday 1 February 2019, the last Friday of the school holiday with public schools returning on Monday 4 February.
- The preceding days have seen maxima of 40, 41 with today likely to reach 43°C.
- There is no real relief in sight with the forecast 45°C for Saturday and 46°C for Sunday.
- The last time the temperature was above 43°C was 5 January 2015 (44.4°C). DFES are dealing with two level 2 bush fires in the metropolitan area.
- The Bureau of Meteorology had a high level of confidence with the forecasting leading into this period of extreme weather.
- The WA Health Department as Hazard Management Agency for Heatwave commenced the Alert Phase on 25 January 2019 when maxima forecast of 40°C+ on three or more consecutive days.
- Standby Phase commenced on 29 January 2019, the first day of the forecast heatwave.
- Response Phase commenced on 29 January 2019, the first day of the forecast heatwave.

During the weather situation such as this the main utility providers, Western Power and the Water Corporation are likely to experience significant impacts to their services.

As provided by State Emergency Management Policy the Hazard Management Agency Department of Health instigated an Operations Area Support Group (OASG) meeting.



Agency Situation Reports

Department of Health WA

- State Health Incident Control Centre activated.
- Heatwave State Hazard Plan activated.
- Incident declared Level 3.
- Emergency Declaration under consideration.
- OASG established.
- Public Messaging Plan activated.
- Public infrastructure affected.
- Essential services disrupted.
- Multiple heatwave related fatalities expected.
- Increased hospital presentations.

Bureau of Meteorology

- Issuing emergency services briefings.
- Participating in OASG meetings.
- BOM Liaison Officer embedded in the State Health Incident Control Centre (SHICC).
- Media releases with DOH.
- Enhanced social media including, videos outlining observed and forecast conditions.
- Fire Danger Rating for the Metropolitan Area - severe to extreme across the period.

Western Power

- Participating in OASG meetings
- 6 power sub-stations non-operational.
- 25-30,000 customers without power.
- Power restoration estimated 3-5 days.
- 103 electrical hazards reported.
- 18 emergency repair teams activated.
- Emergency response generators deployed and available when needed.
- Rolling Load Schedule implemented.
- 5 X Local Government Areas seriously impacted.

Water Corporation

- Participating in OASG and SHICC meetings.
- Critical pump stations have had emergency generators installed where possible.

- No reported overflows to date but as fatigue issues increase the risk of overflows increases.
- Small waste water overflows of possible but limited risk of large volumes of waste water being dispersed into the environment.
- Potable water supplies unaffected at this time and not expected to be an issue on any large scale.

St John Ambulance WA

- Participating in OASG meetings.
- Ambulance Coordination Group activated.
 - Fatigue management
 - Rostering to call back crews
 - Higher than normal sick leave
 - Clinical and training personnel tasked on road
- Spike in 000 calls - Staff numbers increased.
- Emergency theme/trend in 000 calls.
 - Respiratory / altered consciousness, heat exposure.
 - Higher incidents in inner eastern suburbs
- Crew availability/ distribution increased.

Department of Fire and Emergency Services

- Participating in OASG meetings.
- Fire Danger Rating set at extreme.
- Total Fire Ban in place.
- 2 X Level 2 bush fires in the metro area.
- Providing water transport service.
- Fire emergency services on stand-by.

Department of Communities

Role- Coordinate and manage services under the State Welfare Plans including the activation of air-conditioned only evacuations centres in consultation with the Department of Health in accordance with local government arrangements.

- DC Emergency Services alerted - Unit, S/DESO's and early response teams (ERT).
- OASG participation and providing advice on;
 - Key strategic locations for welfare centres.
 - Identification of existing vulnerable population client bases.
 - Support and advice being given re welfare issues including vulnerable groups.
- Liaison Officer provided to SHICC.
- On call ERT placed on stand-by plus additional teams on alert.
- 2 X Welfare/ Respite Centres established - one either side of the Swan River.

One City of Bayswater (The Rise) managed by DC with support from COB and one at City of Belmont (Recreation Centre) Managed by City of Belmont.

- Local governments notified that if they choose to open a welfare centre to provide relief and support to their community, they need to check they have air conditioning - DC may not necessarily be available to assist.

WA Police

- Participating in OASG.
- Supporting DFES at bush fires (traffic management and planning).
- Traffic management duties at major intersections due to power disruptions.
- Increased police presence at transportation hubs, shopping centres and public areas.
- Assisting with evacuation of residence from aged care facilities and/or hospitals.
- Assisting in the identification of at risk, aged and vulnerable persons in affected areas.
- Responding to an increase in reported offenses.
- Responding to increase in reported sudden deaths.

Public Transport Authority

- Participating in OASG meetings.
- PTA Emergency Response Team activated.
- Perth to Midland rail line shut down.
- Perth to Armadale rail line shut down.
- Bus services disrupted.
- Power outages equals no trains.
- Rail lines buckled in some areas of the network.
- Restoration and repairs est. 24-48 hours.

Local Government

- Participating in OASG meetings.
- LG Recovery Groups activated.
- Welfare/Respite Centres established where required.
- Aged Care facilities impacted through loss of power - residents being relocated.
- Transportation Support Plan activated.
- Assisting with public information messaging.
- Water use reduction plan implemented.
- Animal Welfare Plan activated.
- Outdoor music event cancelled.

Risk Analysis

The TOB prepared 29 risk statements under the 5 impact categories as follows;

- People
- Economy
- Public Administration
- Social Setting and
- Environment

The National Emergency Risk Assessment Guide provides the parameters of each of the impact categories.

People - people consequences describe deaths and injuries as a direct result of the emergency event, relevant to the population being considered under the established context.

Economy - economic consequences include economic and financial losses resulting directly from damage due to the emergency event. This criterion related to reduced economic activity and losses as a result of the emergency event as part of the established context of the risk assessment. In this context it is measured against the GDP of the Town of Bassendean Local Government District.

Public Administration - public administration consequences are concerned with the impact of the emergency event on the delivery of the core functions of governing bodies including State and local government.

Social Setting - social setting consequences are concerned with the effects on communities as a result of the emergency event, as distinct from the personal effects as described in the people category.

Environment - environmental consequences include loss of species and landscapes, and loss of environmental value as a result of the emergency event ranging from minor damage to permanent loss of a species/s or irreparable damage to an ecosystem.

Assessment Results

This assessment looked at the hazard of heatwave as the source of the risk across all 5 impact categories mentioned above. A total of 29 risk statements were assessed.

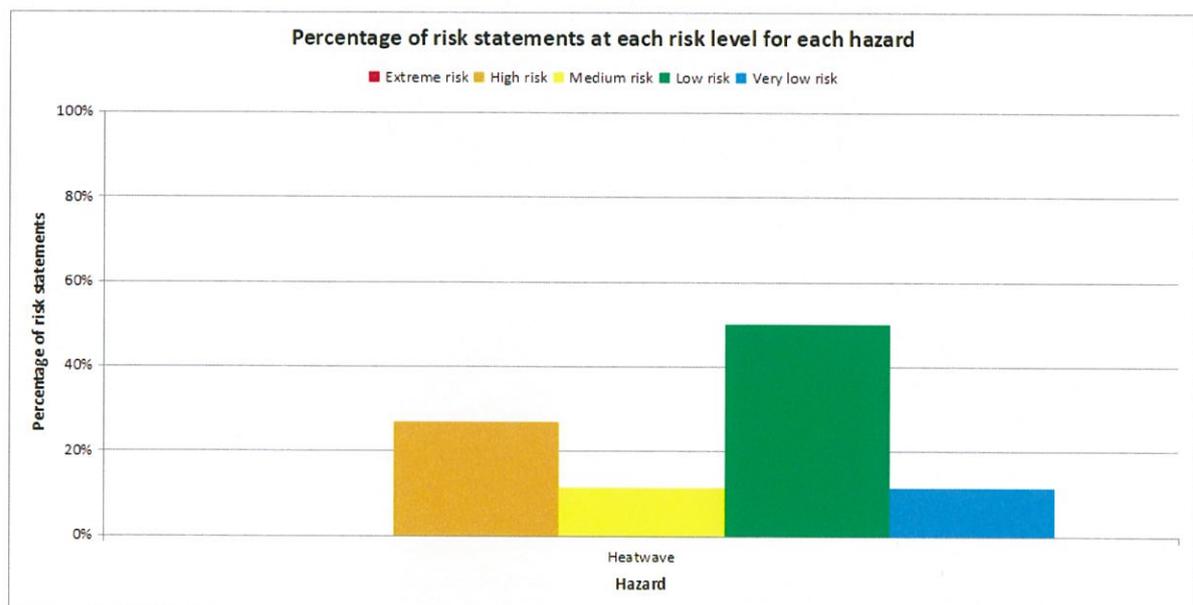
People - 4 risk statement relating to people were assessed with all 4 being assessed as "High" risk. (Refer risk Register)

Economy - 5 risk statements relating to the impacts on the economy were assessed with 3 being assessed as posing a “Medium” level of risk and the remaining 2 assessed as posing “Low” risk.

Public Administration - 7 risk statements relating to the impacts on the public administration were assessed with 4 being assessed as posing a “High” risk, 1 posing a “medium” risk while the remaining 2 assessed as posing a “Low” risk.

Social Setting - 8 risk statements relating to the social setting of the community were assessed with 6 being assessed as posing “Low” risk and the remaining 2 assessed as posing “Very Low” risk.

Environment - 4 risk statements relating to environmental impacts were assessed with 3 assessed as being of “low” risk and 1 “Very Low”.



Summary of risk assessment

Following the assessment of the impacts of a worst-case scenario heatwave for the Town of Bassendean, there are only 7 risk statements falling into the category as “High” risk with treatment priority 2 representing 22% of the total risk statements assessed. The likelihood of such an event as described in the scenario have been assessed by the Hazard Management Agency as having an Annual Exceedance Probability (AEP) of 0.005% in any year.

There are only four (4) risk statements that have been assessed as requiring treatment with treatment priority 2, HW1, HW4 HW10, and HW14. Three of these risk statements refer to the people category with the remaining one (1) referring to public administration.

HW1, 2, 4 refer to risk to the health of the population, namely death or serious life-threatening illness. As the TOB delivers in-home care to around 400 residents, there will need to be robust discussion around treatment options.

HW15 relates to the Town of Bassendean's ability to maintain the core home-based services it currently delivers to the community. Treatment options will need to be discussed.

The Local Emergency Management Committee will now undertake a review of the risk register and identify risks that require treatment and those that will be monitored and reviewed on an annual basis.

Risk Register - Heatwave

The below register records only those risks assessed as High or Extreme.

People

Risk ID	Risk Statement	Impact Category	Maximum Consequence	Likelihood	Confidence	Risk Level	Priority
HW1	There is the potential that a prolonged heatwave event will impact the health of people and cause death(s) within the Bassendean community.	People	Catastrophic	Rare	High	High	2
HW2	There is the potential that a prolonged heatwave event will impact the health of people and cause injury and/or serious illness within the Bassendean community.	People	Catastrophic	Rare	High	High	2
HW4	There is the potential that a prolonged heatwave event will cause blackouts across the electricity supply network exposing vulnerable people in the community to the possibility of death or life-threatening illness.	People	Catastrophic	Rare	High	High	2
HW15	There is the potential that a prolonged heatwave event will impact on home-based services and service providers impacting on their ability to maintain core services	Public Admin	Catastrophic	Rare	High	High	2

Workshop 2

Workshop 2 was hosted by the City of Belmont and the Town of Victoria Park and was held on Monday 29 July.

Two hazard sources were assessed at this workshop, these being:

1. HAZMAT and
2. Air Crash

The Department of Fire and Emergency Services (DFES) prepared a near worst case scenario for a HAZMAT incident involving a liquified petroleum gas incident. Based on a LPG incident at a service station, each local government identified an area within their district where the highest threat for this type of incident existed. The Town of Bassendean centred the incident on the Puma Kiara service station located at 157 Morley Dr East. This site is surrounded by high density housing and schools and was decided by the risk team as a suitable site for this type of scenario.

Near Worst Case Scenario - HAZMAT

The scenario is identified as a Chemical Substance incident under the broader category of HAZMAT with an Annual Exceedance Probability (AEP) of 0.01980%

Scenario

At around Midday Monday 29th July 2019, a 4WD vehicle being driven in an erratic manner in an easterly direction on Morley Drive, leaves the carriageway and collides with a row of petrol bowsers before colliding with a LPG tanker carrying 40,000 Litres of LPG fuel parked on the service station forecourt filling the storage tank.

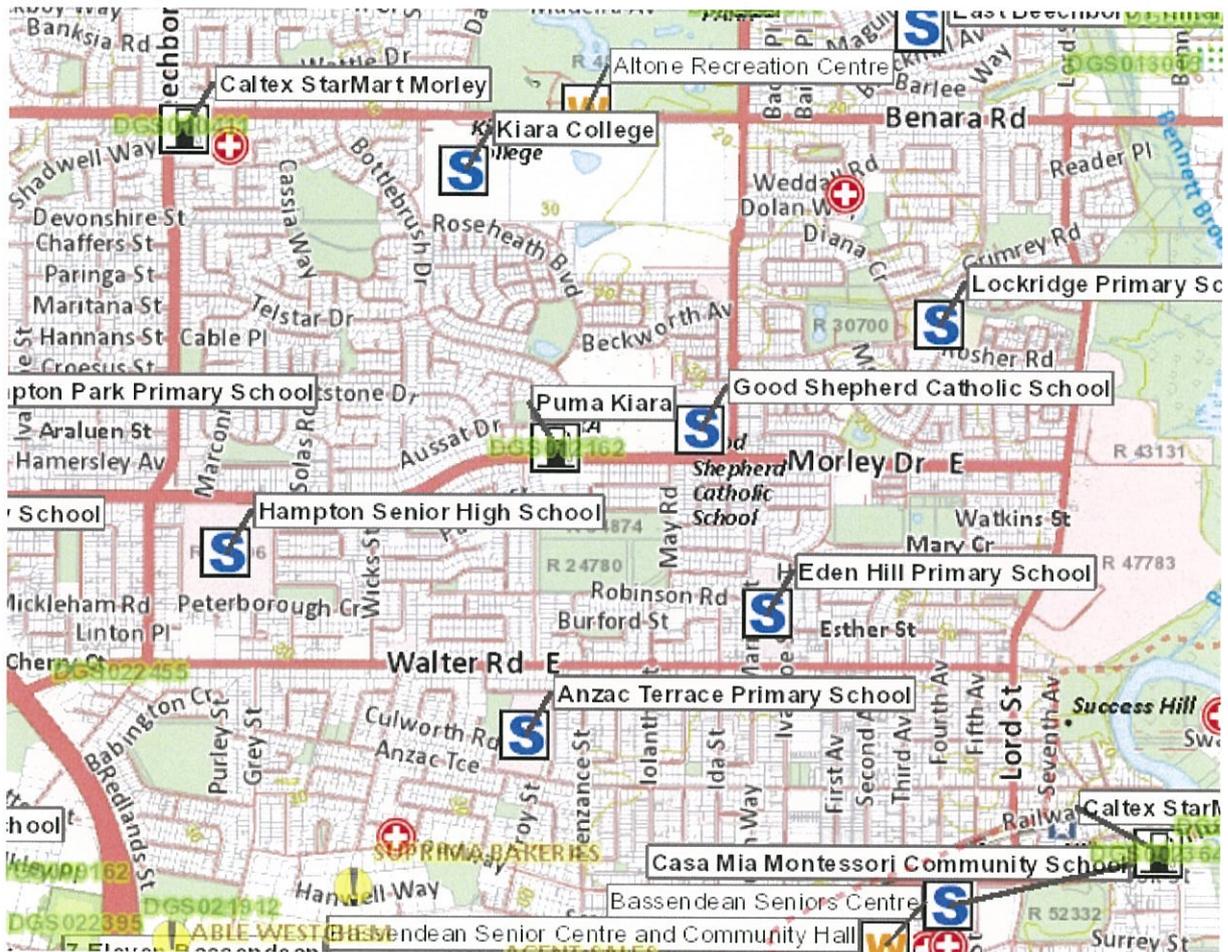
A fire erupts following the collision engulfing the vehicle, bowsers and the tanker. A jet of flame from pipework directly impinges the head space of the LPG tanker.

Following the collision, the following response occurs;

- +6 minutes Firefighters arrive
- +7 minutes LPG tanker BLEVE
 - Fireball radius 80m (100% deceased), other smaller fires are started
 - Significant structural building damage 250m (collapse – people trapped 60% deceased)
 - Minor structural building damage 500m (glass shattered – people injured 10% deceased)
 - Large shrapnel 1200m
 - Smaller shrapnel 2000m
- +60 minutes Ambulance and medical services overwhelmed, all roads in vicinity closed
- +120 minutes Fire under control, casualties triaged, roads remain closed
- +300 minutes fire extinguished, casualties transferred to holding area and hospitals, roads remain closed
- +1 day investigation underway, casualties in hospitals and holding centres, roads remain closed

- +2 days roads opened except for immediate vicinity of service station
- +5 days investigation concludes, all roads open

Information for this scenario has been developed from the 2016 Emergency Response Guidebook.





Legend (Not to scale)

- 80 metre radius 100% deaths
- 250 metre radius collapse – people trapped 60% deceased

Risk Analysis

The TOB prepared 24 risk statements under the 5 impact categories as follows;

- People
- Economy
- Public Administration
- Social Setting and
- Environment

The National Emergency Risk Assessment Guide provides the parameters of each of the impact categories.

Assessment Results

This assessment looked at the hazard of heatwave as the source of the risk across all 5 impact categories mentioned above. A total of 29 risk statements were assessed.

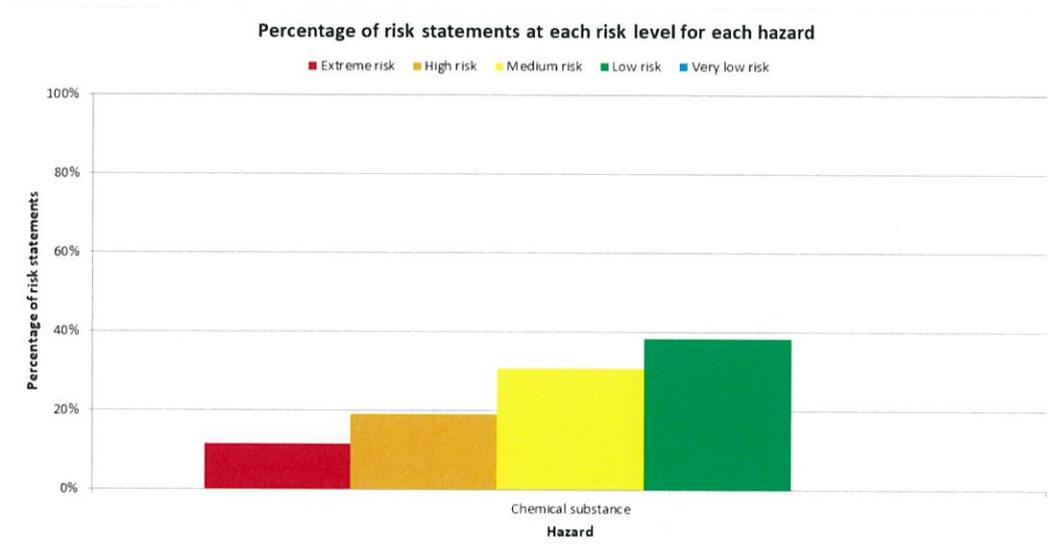
People - 4 risk statement relating to people were assessed with all 4 being assessed as “Extreme” risk. (Refer risk Register).

Economy - 4 risk statements relating to the impacts on the economy were assessed with 3 being assessed as posing a “High” level of risk and the remaining 1 assessed as posing “Moderate” risk.

Public Administration - 7 risk statements relating to the impacts on the public administration were assessed with 2 being assessed as posing a “High” risk, 2 posing a “Medium” risk while the remaining 3 assessed as posing a “Low” risk.

Social Setting - 6 risk statements relating to the social setting of the community were assessed with 2 being assessed as posing “Medium” risk and the remaining 4 assessed as posing “Low” risk.

Environment - 2 risk statements relating to environmental impacts were assessed with all assessed as being of “low” risk.



Summary of risk assessment

Following the assessment of the impacts of a worst-case scenario HAZMAT (Chemical Substance) for the Town of Bassendean, there are three (3) risk statements falling into the “Extreme” risk category. The risk to people from death or injury would present the greatest risk to the Town of Bassendean community. The likelihood of such an event as described in the scenario have been assessed by the Hazard Management Agency as having an Annual Exceedance Probability (AEP) of 0.01980% in any year.

Six (6) risk statements have been assessed as requiring treatment and assigned treatment priority 2 with a risk level of “High”. One (1) risk statement (CS5) dealing with economy was listed as treatment priority 2 due to the assessment team recording the confidence level as “Low” as a reasonable assessment could not be made without the input of Western Power.

Risk Register – HAZMAT (Chemical Substance)

Risk ID	Risk Statement	Impact Category	Maximum Consequence	Likelihood %	Confidence	Risk Level	Priority
CS1	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean will impact private buildings and contents, resulting in financial losses.	Economy	Major	100	High	High	2
CS2	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean will impact commercial buildings, contents and services, resulting in financial losses.	Economy	Major	100	High	High	2
CS5	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean will impact power infrastructure, resulting in repair costs and/or financial losses.	Economy	Moderate	70	Low	Medium	2
CS6	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean will result in recovery activities, resulting in costs to local government.	Economy	Major	100	High	High	2

Risk ID	Risk Statement	Impact Category	Maximum Consequence	Likelihood %	Confidence	Risk Level	Priority
CS8	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean will cause an increased demand (surge) on DFES services at the local level, impacting their ability to maintain core services.	Public Admin	Major	90	Moderate	High	2
CS10	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean will cause an increased demand (surge) on WA Police services at the local level, impacting their ability to maintain core services.	Public Admin	Major	100	High	High	2
CS15	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean will impact the health of people and cause death(s).	People	Catastrophic	100	Highest	Extreme	2
CS16	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean	People	Catastrophic	100	Highest	Extreme	2
CS17	There is the potential that a major liquified petroleum HAZMAT incident within the Town of Bassendean	People	Catastrophic	100	High	Extreme	2

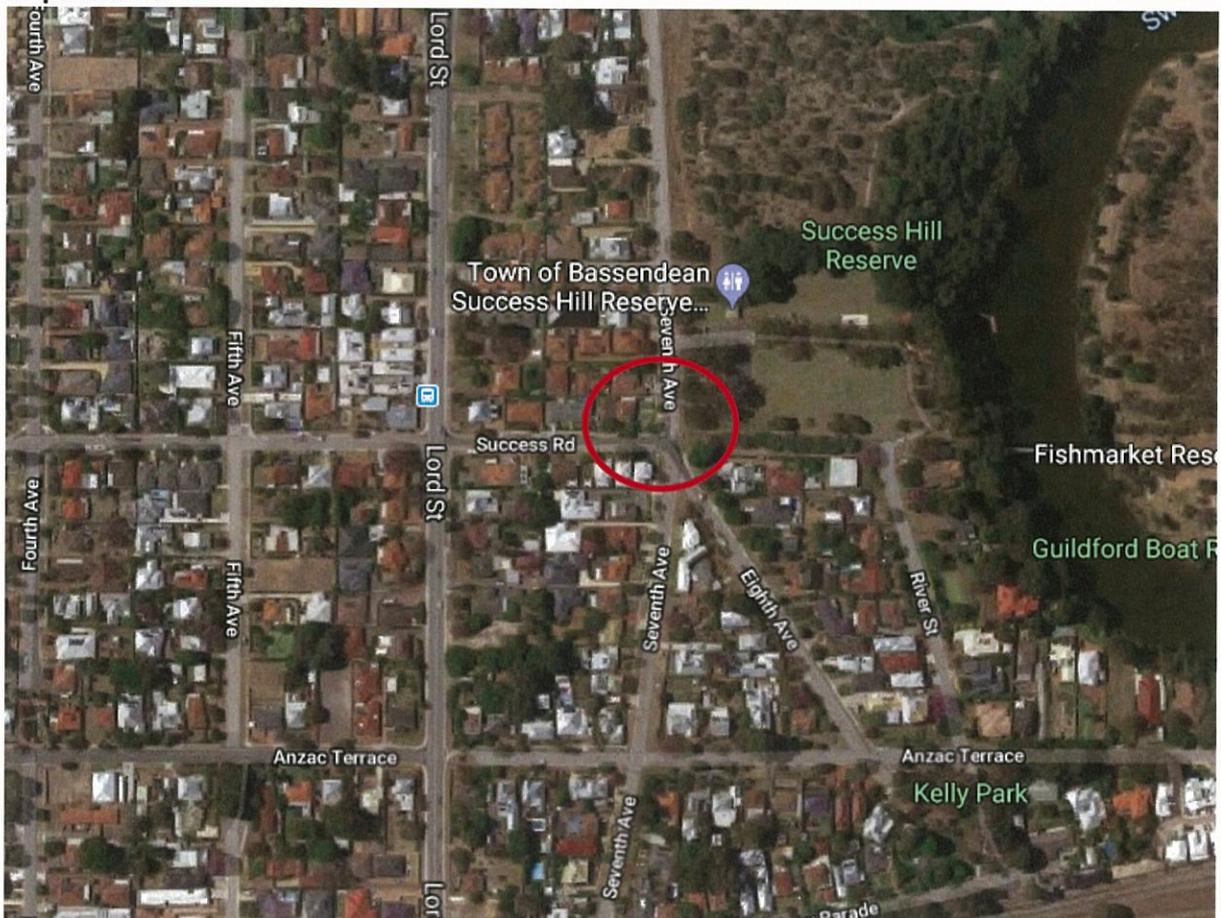
Near Worst Case Scenario – Air Crash

Scenario

There are 475 souls including 25 crew on board the Raptor airlines A380 flight RA 434. The craft is fully fueled and is also transporting 5000 litres of hazardous chemicals not clearly defined in the manifest. The aircraft departs Perth from runway 21 and at noon on Monday 29 July.

The plane departs on a north by northeast flight trajectory but deviates off the flight path and crashes in a slight nose down attitude into the ground. The initial impact area is in a densely populated area of Success Hill just below Success Hill Reserve.

Impact area



Expected Impacts on community at risk

People:

In addition to the 475 on board the aircraft and given the time of day it would be likely that deaths on the ground could be as high as 50.

Economy:

The crash site is away from the major business centre of Bassendean and Industrial area. Diversion of traffic for long periods of recovery and reconstruction may cause economic stress in the wider community.

There would be significant economic impacts on private households and the local government recovery activities.

Public Administration:

The Town of Bassendean administration would be greatly impacted, and service delivery would suffer accordingly. The Town would require significant State government support during any recovery process.

Social:

The local community would be severely impacted by this disaster and would take many years to recover. The loss of homes and changes to street scapes following recovery would diminish the aesthetic value of the locality. People may not rebuild or return.

Environmental impacts:

Dependant on the spread of debris and toxic substances as a result of impact over a large area and the proximity to the Swan River would require significant cleanup processes outside of the capacity of the Town of Bassendean.

The TOB prepared 37 risk statements under the 5 impact categories as follows;

- People
- Economy
- Public Administration
- Social Setting and
- Environment

The National Emergency Risk Assessment Guide provides the parameters of each of the impact categories.

Assessment Results

This assessment looked at the hazard of heatwave as the source of the risk across all 5 impact categories mentioned above. A total of 37 risk statements were assessed.

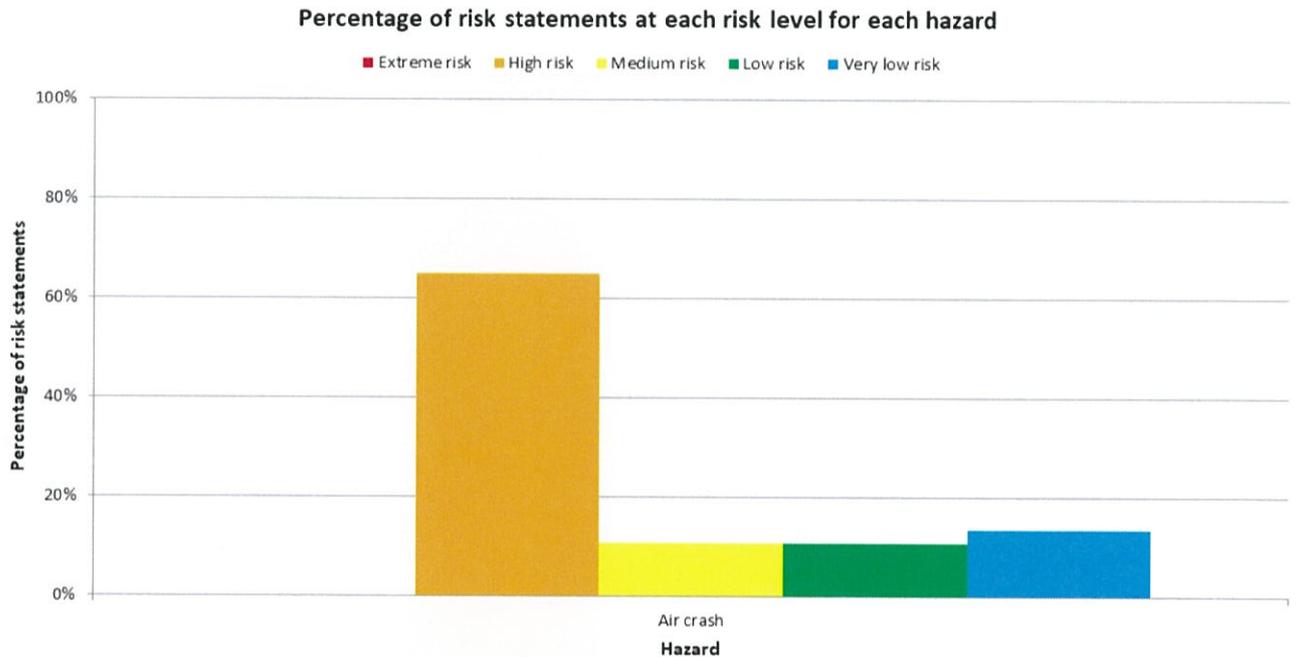
People - 4 risk statement relating to people were assessed with all 4 being assessed as "High" risk with catastrophic consequences.

Economy - 7 risk statements relating to the impacts on the economy were assessed with 4 being assessed as posing a "High" level of risk, 2 assessed as "Medium" risk and the remaining 1 assessed as posing "Low" risk.

Public Administration - 8 risk statements relating to the impacts on the public administration were assessed with 3 being assessed as posing a "High" risk, 1 posing a "Medium" risk, 2 "low" risk while the remaining 2 assessed as posing a "Very Low" risk.

Social Setting - 9 risk statements relating to the social setting of the community were assessed with 6 being assessed as posing "High" risk, 1 assessed as "Medium" risk, with the remaining 2 assessed as posing "Very Low" risk.

Environment - 8 risk statements relating to environmental impacts were assessed with 7 assessed as posing a “High” level of risk, while 1 was assessed as “low” risk.



Summary of risk assessment

Following the assessment of the impacts of a worst-case scenario Air Crash for the Town of Bassendean, there are twenty-three (23) risk statements falling into the “High” risk category. The risk to people from death or injury would present the greatest risk to the Town of Bassendean community along with the destruction of property, infrastructure and the obvious threat to the environment. The likelihood of such an event as described in the scenario have been assessed by the Hazard Management Agency as having an Annual Exceedance Probability (AEP) of 0.00664% in any year with a likelihood rating of “Rare” across all risk statements assessed.

Of the thirty-seven (37) risk statements assessed, 62% fall into the High-Risk category. Seventeen (17) risk statements have been assessed as requiring treatment as either Priority 1 or Priority 2. There four (4) risk statement listed against a treatment priority of 1 and this is directly attributable to the confidence rating of “Low” assigned to this risk as the assessment team did not have the relevant expertise available at the time. Only one (1) of these relates to the impact category “People” and the remaining three (3) are environmental impacts.

Risk Register – Air Crash

Risk ID	Risk Statement	Impact Category	Maximum Consequence	Likelihood %	Confidence	Risk Level	Priority
AC1	There is the potential that a severe air crash event within the Town of Bassendean will impact private buildings and contents, resulting in financial losses.	Economy	Catastrophic	100	High	High	2
AC3	There is the potential that a severe air crash event within the Town of Bassendean will impact main road transport routes, resulting in repair costs and/or financial losses.	Economy	Catastrophic	100	High	High	2
AC5	There is the potential that a severe air crash event within the Town of Bassendean will impact power infrastructure, resulting in repair costs and/or financial losses.	Economy	Catastrophic	100	High	High	2
AC6	There is the potential that a severe air crash event within the Town of Bassendean will result in recovery activities, resulting in costs to local government.	Economy	Catastrophic	100	High	High	2
AC10	There is the potential that a severe air crash event within the Town of Bassendean will cause an increased demand (surge) on St John Ambulance services at the local level, impacting their ability to maintain core services.	Public Admin	Catastrophic	90	High	High	2

Risk ID	Risk Statement	Impact Category	Maximum Consequence	Likelihood %	Confidence	Risk Level	Priority
AC19	There is the potential that a severe air crash event within the Town of Bassendean will cause health services (e.g. ICU units, hospitals, remote nursing posts, small country hospitals, clinics) to be overwhelmed, resulting in further deaths directly attributable to the hazard event.	People	Catastrophic	60	Low	High	1
AC20	There is the potential that a severe air crash event within the Town of Bassendean will impact the health of residents in the area and cause death or serious injury/illness, impacting the wellbeing of the community.	Social Setting	Catastrophic	90	Moderate	High	2
AC27	There is the potential that a severe air crash event within the Town of Bassendean will result in a loss of income/employment, impacting the community wellbeing.	Social Setting	Major	80	Moderate	High	2
AC28	There is the potential that a severe air crash event within the Town of Bassendean will impact the aesthetics of the area, impacting the community wellbeing.	Social Setting	Catastrophic	90	High	High	2
AC29	There is the potential that a severe air crash event within the Town of Bassendean will result in the breakdown of existing family and support networks (including social community networks), impacting the community wellbeing.	Social Setting	Catastrophic	90	High	High	2

Risk ID	Risk Statement	Impact Category	Maximum Consequence	Likelihood %	Confidence	Risk Level	Priority
AC30	There is the potential that a severe air crash event within the Town of Bassendean will impact wildlife.	Environment	Catastrophic	75	Low	High	1
AC31	There is the potential that a severe air crash event within the Town of Bassendean will impact flora.	Environment	Catastrophic	75	Low	High	1
AC32	There is the potential that a severe air crash event within the Town of Bassendean will impact native vegetation.	Environment	Catastrophic	75	Low	High	1
AC33	There is the potential that a severe air crash event within the Town of Bassendean will cause the spread of vegetative diseases.	Environment	Catastrophic	75	Low	High	2
AC34	There is the potential that a severe air crash event within the Town of Bassendean will impact on vulnerable environmental ecosystems and/or identified critically endangered species.	Environment	Catastrophic	75	Moderate	High	2
AC37	There is the potential that a severe air crash event within the Town of Bassendean will cause debris and pollutants to enter marine or estuarine/riverine environments, impacting marine ecology.	Environment	Catastrophic	90	Moderate	High	2

Workshop 3 – Flood and Storm

To be completed following the September workshop at the City of Canning

ATTACHMENT NO. 3



Our Ref: D05859

Dear CEO

NEW STATE RECOVERY COORDINATOR

I am writing to advise that a new State Recovery Coordinator (SRC) has been appointed by the Fire and Emergency Services Commissioner.

Effective from 29 July 2019, Mr Graham Swift will take up the role of the SRC and Assistant Commissioner Resilience and Recovery within the Department of Fire and Emergency Services (DFES). Mr Swift comes to the role after a five year tenure as the DFES Assistant Commissioner Country Operations having overseen many major emergencies in regional Western Australia.

The new points of contact for the SRC and Deputy SRC positions are as below:

State Recovery Coordinator
Assistant Commissioner Graham Swift
T: (08) 9395 9401 M: 0418 954 146
E: Graham.Swift@dfes.wa.gov.au

Deputy State Recovery Coordinator
Suellen Flint
T: (08) 9395 9418 M: 0427 080 689
E: Suellen.Flint@dfes.wa.gov.au

For all operational notifications of the SRC the DFES District Officer State Situation remains the initial point of contact on 08 9395 9201 or 0407 942 138.

Thank you for your support during my time as SRC. We are making significant improvements to the sector through a collaborative and unified approach to recovery, keep up the great work. Should you have any queries, please contact Suellen Flint using the contact details above.

Yours sincerely

RICK CURTIS
ASSISTANT COMMISSIONER RESILIENCE & RECOVERY
25 July 2019