



Flood Emergency Management Plan

Appendix C

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Montague St Development

Flood Emergency Management Plan

Prepared for

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Client representative

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Date

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RevA



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| Flood Warden | |

DRAFT

1. Introduction

1.1 Background

A new light industrial development is proposed within Invermay. The proposal includes a new building comprising 5 separate tenancies.

As the proposed development is located within the *Invermay/Inveresk Flood Inundation Area*, the proposed development must consider and respond to use and development standards under *LAU-S10.0 Invermay/Inveresk Flood Inundation Specific Area Plan, Tasmania Planning Scheme - Launceston.*, of which flood emergency management must be considered.

This Flood Emergency Management Plan is based upon the most recent flood modelling data as reported in *North and South Esk Rivers Flood Modelling and Mapping Update Volume 1: Technical Report (BMT, 2018)*, and *North and South Esk Rivers Flood Modelling and Mapping Update, Levee Breach Assessment (BMT, 2018)*.

This document presents the known risks at the planning phase of the proposed development. This plan must be regularly reviewed to ensure all operational issues are captured and a plan is in place to manage risk. The update must be facilitated by a suitably qualified person in the field of flood emergency management.

This document should remain live and be progressively updated as circumstances of the business operation change.

1.2 Plan structure

Flood emergency management can be described in four distinct categories:

- Prevention and Mitigation
- Preparedness
- Response; and
- Recovery.

The plan details the **FLOOD RESPONSE** aspect of flood emergency management only.

The site is contained within the Inveresk Flood Inundation Area and as such, much of the flood emergency management will be coordinated at a regional and municipal level. This plan details the specific actions the site must undertake to both complement the municipal emergency management plan but also manage its own residual risk.

1.3 Regional context

The *Municipal Emergency Management Plan* provides a plan for the management of hazards within Launceston. It acts at a local level and addresses hazards relevant to the Launceston community. In the context of this flood emergency management plan, it defines who is responsible for emergency management relating to flooding.

City of Launceston and Tasmania Police have an evacuation plan for Invermay. Depending on the severity of a flood, or at any time Tasmania Police feel that the community is at risk, an evacuation order may be issued.

Within Launceston, TasPolice are the lead authority for flood emergency management. Any instruction provided by Tasmania Police must be followed.

2. Site details

2.1 Location

The site is located on the corner of Howard and Montagu Street in Invermay. The site is located approximately 200m west of the East Tamar Highway and 250m south of the Mowbray Levee. In the event of a levee over topping or levee failure, the entire site will be subject to substantial flooding

The site has an access via Howard and Montagu Street. The site is generally flat like most of Invermay with a ground level of approximately 1.2 - 1.5m AHD.

The site location and associated points of interest are presented below in Figure 1 and Figure 2.

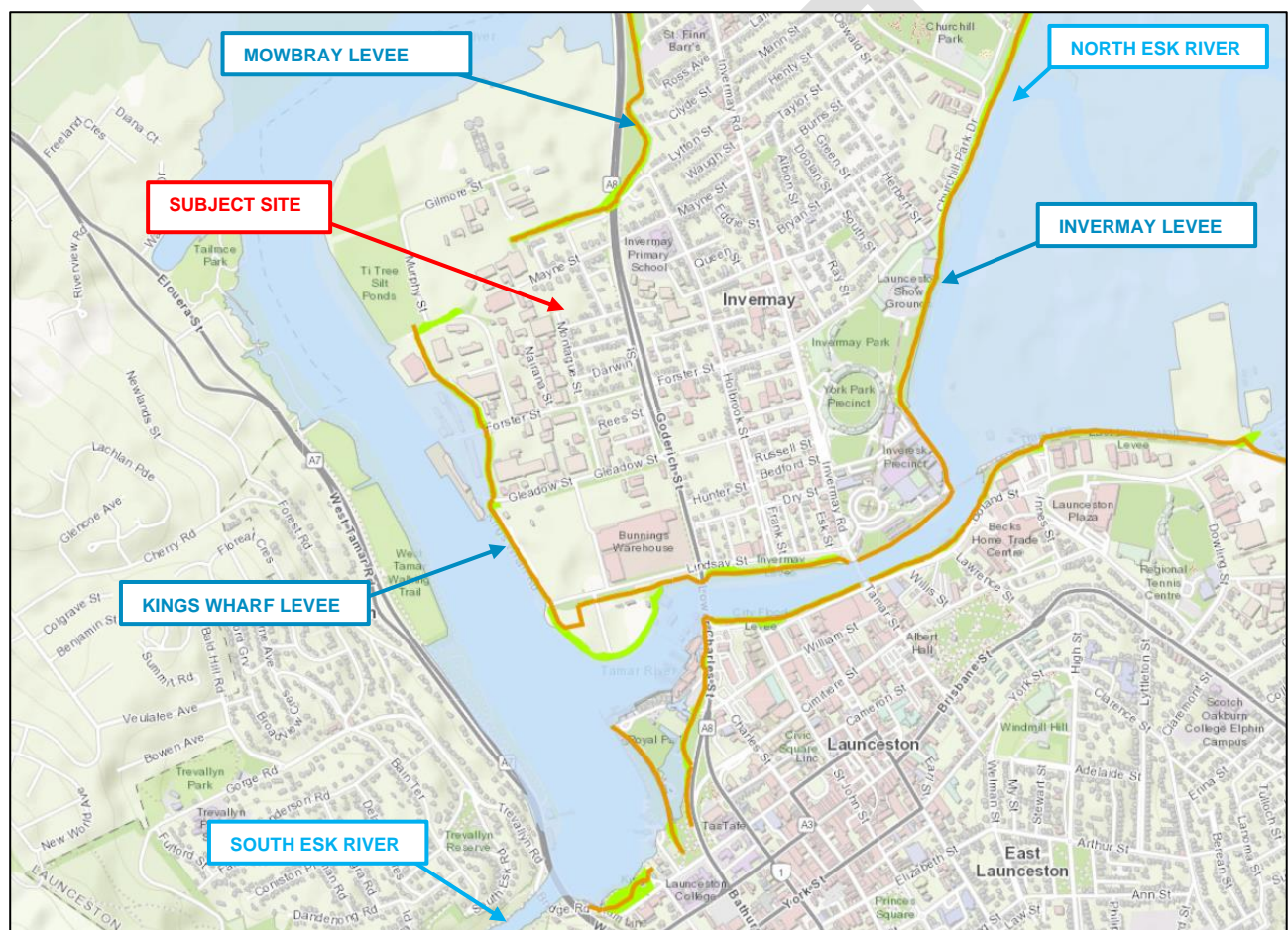


Figure 1: Subject site and relevant points of interest

The site is contained within an area serviced by flood levees. Flood levees can provide protection to flood liable land for some flood events, although, it is not practical to provide protection from all events. A flood levee may fail due to an unforeseen reason, or a flood levee may be overtopped by an event exceeding its design capacity. Under either of these scenarios, the site will likely be affected by flood water. It is possible that the building could be inundated by flood water in excess of 3.0m deep.



Figure 2: Site Location

3. Risks and issues

Table 1 presents risks and issues associated with the operation of the facility in relation to its exposure to flood hazard. These risk and issue are based on the information known at the planning stage of the development. It is intended that as new risks and issues are identified that this table be updated to ensure that the flood emergency response escalation chart (Table 2) is appropriate.

Table 1: Risks and Issues

| ID | Risk / Issue | Date |
|----|--|----------|
| 01 | Stock and equipment located on the ground floor which may be exposed to flood water | Jan 2023 |
| 02 | People and staff could be located at the facility during a flood. In the event of a flood access to and from the site will be disrupted. | Jan 2023 |
| 03 | Each tenancy must be aware of this plan. Ensure as tenancy changes over time they are aware of the flood risk | Jan 2023 |

4. Flood emergency response

The primary focus of flood emergency management is the protection of life. This plan prioritises protection of life over that of property. Notwithstanding, it is recommended that employees and officers implement measures to reduce the likely damage that may occur to property in the event of flooding.

The successful implementation of this flood emergency response plan requires an employee or officer to act as the 'Flood Warden'. The flood warden will be responsible for monitoring flood advice and flood warning from the relevant agency. They will also be responsible for ensuring employees are aware of the flood risk.

The City of Launceston has undertaken several flood studies to map areas affected by flooding. The link below presents Council's latest flood information. This information is correct as at January 2023.

<https://launceston.maps.arcgis.com/apps/webappviewer/index.html?id=19c346f2067b4b6c884631b6d8dd5075>

During a flood event, the Bureau of Metrology's website¹ should be monitored. The BoM is the primary source of flood warning and will give an indication of the likely magnitude of flooding expected to arrive at Launceston.

¹ <http://www.bom.gov.au/tas/warnings/>

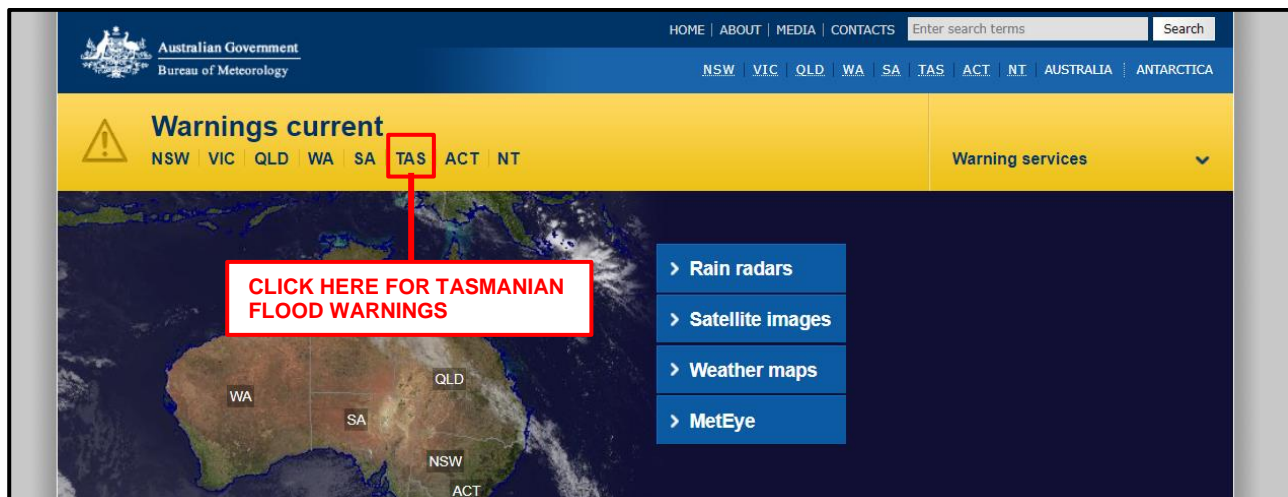


Figure 3: Bureau of Metrology Home Page

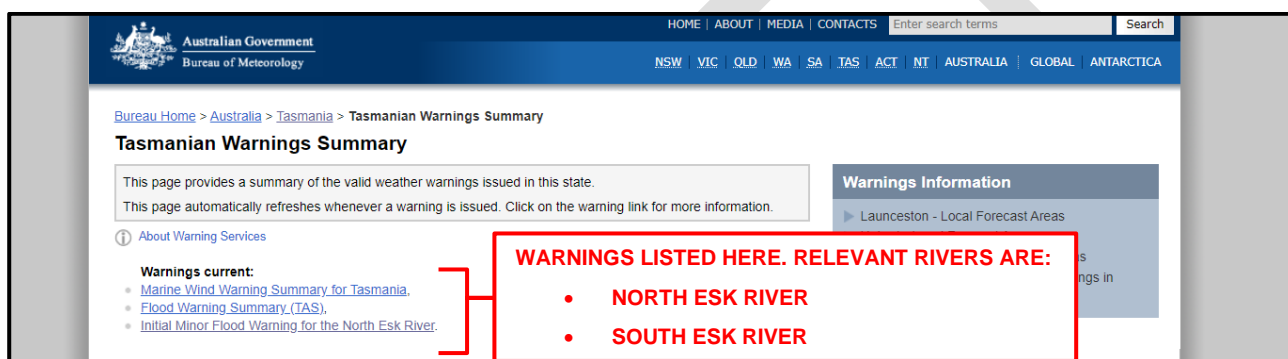


Figure 4: Bureau of Metrology Warnings Page

Advice on actions to take in the lead up to a flood event may be available from several sources. It is recommended to monitor the TasALERT web page in the lead up and during a flood event. <https://www.alert.tas.gov.au/>

TasALERT is the primary source of emergency warning and information from emergency services.

Table 2 details specific tasks and actions to be undertaken as an event escalates. The triggers are aligned to river flood classifications which aligns to the BoM flood warning system.

Table 2: Flood Emergency Response Escalation Chart

| Phase | Trigger | Action | Responsible Person |
|------------------------|---|--|----------------------------|
| Ongoing | Annually or following a flood event | Review this FERP annually to ensure it is up to date and reflects the current operation of the function centre and includes any new identified risks/issues. | Flood Warden |
| | Always | Ensure an employee or officer is the flood warden at all times. Flood warden required for each tenancy | Manager / Property Manager |
| | Always | Ensure all new employees are aware of the flood risk of the site and their role in a flood emergency. | Flood Warden |
| | Always | Flood warden to monitor flood warnings from the Bureau of Meteorology at all times. | Flood Warden |
| | Always | Ensure equipment is facility is located such that if a flood occurs, damage can be minimised. | Manager |
| Flood Watch | Flood watch advice issued for either the North or South Esk River. | Commence more frequent review of flood warning advice from the Bureau of Meteorology. | Flood Warden |
| Minor Flood Warning | Minor flood warning issued for either the North Esk River (Corra-Linn) or South Esk River (Trevallyn Dam). | Continue monitoring of advice from the Bureau of Meteorology, TasLAERT and Tasmania Police. | Flood Warden |
| Moderate Flood Warning | Moderate flood warning issued for either the North Esk River (Corra-Linn) or South Esk River (Trevallyn Dam). | Continue monitoring of advice from the Bureau of Meteorology, TasALERT and Tasmania Police. | Flood Warden |
| | | Issue notice to all staff members stating moderate flood warning in place. All staff to be on notice that if event does escalate that they will need to be ready to immediately evacuate the facility. | Flood Warden |
| | | Prepare for possible closure of facility | Manager |

| Phase | Trigger | Action | Responsible Person |
|---------------------|---|--|------------------------|
| Major Flood Warning | Major flood warning for either the North Esk River (Corra-Linn) or South Esk River (Trevallyn Dam). | Plan for a possible evacuation. Send non-essential staff home. | Flood Warden / Manager |
| Evacuation | Evacuation order issued by Tasmania Police | Responsible person to notify all staff and patrons to immediately leave the premises and go to a nearby safer place (Either there home outside of the floodplain or an evacuation centre). | Manager |
| | | Persons not currently at the site to be notified to stay home. | Manager |
| | | All equipment and stock to remain on site and facility to be closed | Manager |
| | | Do not return to the site until Tasmania Police have advised it is safe to so. | Manager |

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Montague Street Development Flood Emergency Management Plan

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Located nationally —

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Newcastle
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