



Local Flood Guide

Manningham

Understand, prepare, and respond effectively to your flood risk.



FLOOD STORM
EMERGENCY **132 500**



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Victorian State Emergency Service acknowledges Aboriginal Traditional Owners of Country throughout Victoria and pays respect to their cultures and Elders past and present.

Disclaimer: Victoria State Emergency Service assumes no responsibility or liability for any errors or omissions for any of the content in this document.

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For more information visit: ses.vic.gov.au/plan-and-stay-safe



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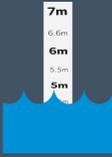
Local flood information

Suburbs within the Manningham area that are most likely to be impacted during a flood event are:

- Bulleen
- Warrandyte
- Doncaster
- Doncaster East
- Templestowe
- Templestowe Lower



There are six main creeks in the City of Manningham. All six creeks flow into the Yarra River.



Although flooding in Manningham only lasts a short time, these floods can cause severe damage.



Flooding can happen quickly after heavy rainfall, giving people little to no time to prepare and take action.

Why does Manningham flood?

Manningham is characterised as being hilly with many low lying areas and has six main creeks. This means areas can be affected by flooding from rivers and creeks as well as **flash flooding** from heavy rainfall. Flooding can happen quickly and you may not receive an official warning.

- **High intensity, short duration rainfall:** Intense, short bursts of rainfall can cause flash flooding across the Manningham area. Stormwater drainage may not be able to drain the amount of rainfall, causing them to overflow and the ground may be unable to absorb the amount of rainfall, naturally causing the water to pool.
- **Prolonged rainfall:** Stormwater drainage may not be able to drain the amount of water after a long duration of rain, causing them to overflow.
- **Connected waterways:** The Brushy Creek, Jumping Creek, Anderson Creek, Mullum Mullum Creek, Ruffey Creek and Koonung Creek all flow into the Yarra River. Floodwater from these sources can cause or increase the impact of flooding in the Manningham area.

How do floods impact communities?

Even if your home or workplace stays dry, floods can impact you in many ways.



Buildings flooded



Road closures



Drinking water supply and quality affected



Power outages



Mobile and internet network outage

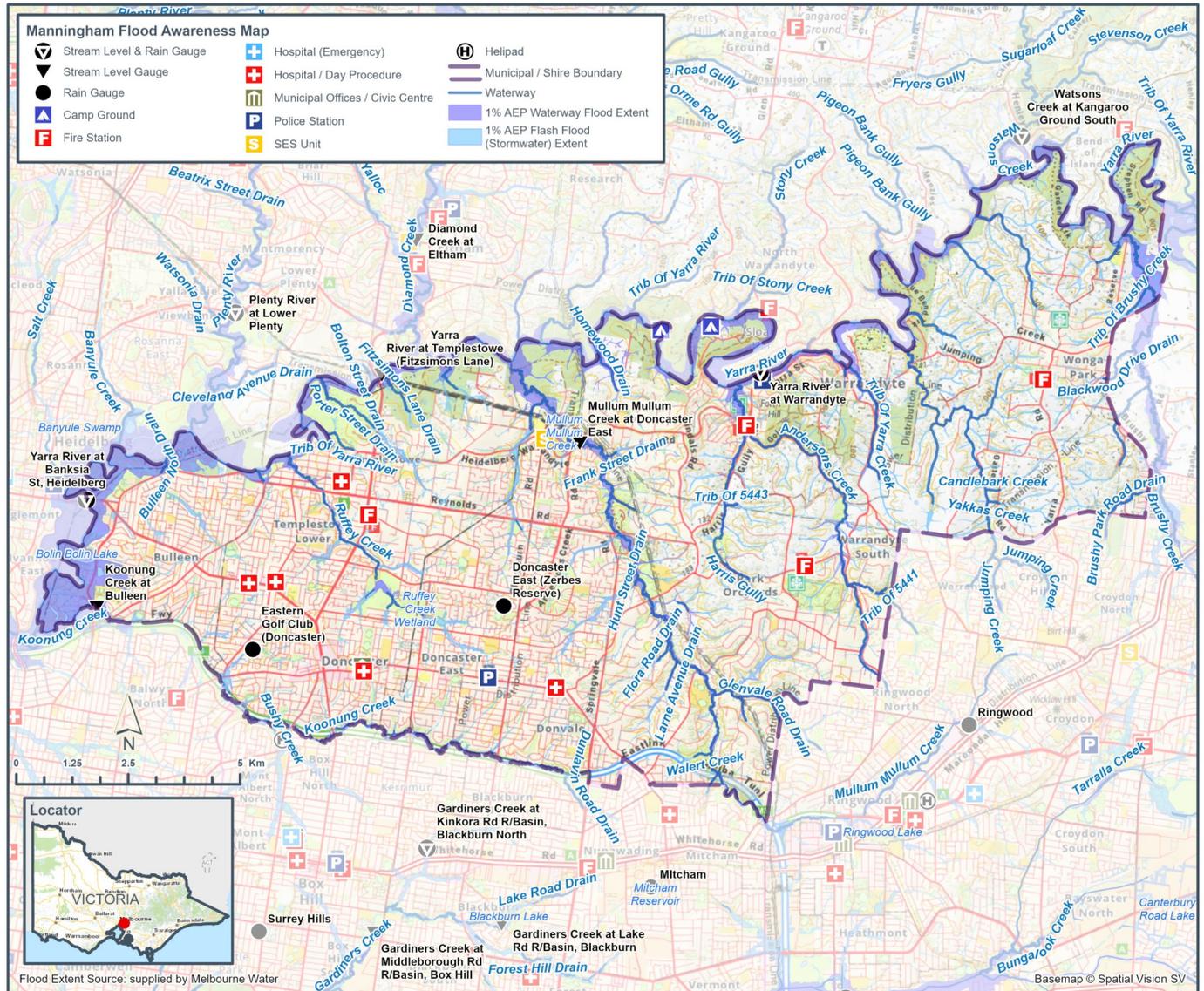


Sewage overflows inside building

Check your home, work, and travel routes for floodwater

If this map shows potential flood risk for you, ensure you take action to **plan and prepare for floods**. See [page 9](#) for more information.

- This map shows the area likely to flood in a significant flood event.
- This is referred to as a 1% Annual Exceedance Probability (AEP), which means there is a 1% chance of this size flood (or greater) happening in any year.



Due to the significant amount of foliage in the Manningham area, storms with heavy rainfall result in **flash flooding** that can contain fallen branches. Never drive, ride or walk through floodwater.



What might happen in a flood in your area?

Yarra River flood levels at the Heidelberg gauge

Although no two floods are the same and the environment is constantly changing, the following tables provide an idea of what to expect at different flood heights.



Floodwater height (metres)*	Potential impacts^
12.58	10 properties at risk of flooding.
Flood height shown on map, see page 4 .	Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> ■ Bus route 903 along Manningham Road West. ■ Water over the road may occur on Manningham West Road, Bulleen.
9.20	Major flood level
	One property will be impacted at this level.
9.0	Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> ■ Stand at Carey Baptist Grammar Sports Centre, Bulleen Road, Bulleen
	■ 5th Feb 2011 flood peak level
8.30	Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> ■ Trinity Grammar School Sporting Complex, Bulleen Road ■ Marcellin College Sports Grounds, Bulleen Road ■ Carey Baptist Grammar Sports Centre
8.30	Moderate flood level
	One property will be impacted at this level.
	Community infrastructure that may be impacted by floodwater includes:
7.90	<ul style="list-style-type: none"> ■ Bulleen Park, Bulleen Road ■ Freeway Public Golf Course, Bulleen Road ■ Water over the road may occur on Bulleen Road, Bulleen
6.0	Minor flood level

*The height measurement is at the Heidelberg gauge.

^This table includes information from previous flood studies, which are scientific models used to predict impacts at different flood heights and flows.

What might happen in a flood in your area?

Yarra River flood levels at the Templestowe gauge

Although no two floods are the same and the environment is constantly changing, the following tables provide an idea of what to expect at different flood heights.



Floodwater height (metres)*	Potential impacts^
10.28 Flood height shown on map, see page 4 .	Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> Bus routes 280 and 282 along Templestowe Road, Templestowe Lower Water over the road may occur at the intersection of Union Street and Templestowe Road, Templestowe Lower
8.60	12 properties at risk of flooding. <ul style="list-style-type: none"> Water over the road may occur on Riverwood Lane and Ruffey Street, Templestowe Lower
8.0	Major flood level
6.7	One property will be impacted at this level. Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> Stand at Carey Baptist Grammar Sports Centre, Bulleen Road, Bulleen
6.0	Moderate flood level
	Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> Trinity Grammar School Sporting Complex, Bulleen Road Marcellin College Sports Grounds, Bulleen Road Carey Baptist Grammar Sports Centre
4.0	Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> Yarra Valley Country Club, Templestowe Road Birrarung Park, Templestowe Road
3.50	Minor flood level
	Community infrastructure that may be impacted by floodwater includes: <ul style="list-style-type: none"> Sections of the Main Yarra Trail between Warrandyte and Bulleen

*The height measurement is at the Templestowe gauge.

^This table includes information from previous flood studies, which are scientific models used to predict impacts at different flood heights and flows.

What might happen in a flood in your area?

Yarra River flood levels at the Warrandyte gauge



Although no two floods are the same and the environment is constantly changing, the following tables provide an idea of what to expect at different flood heights.

Floodwater height (metres)*	Potential impacts^
9.82 Flood height shown on map, see page 4.	<p>10 properties in total at risk of flooding.</p> <p>Community infrastructure that may be impacted by floodwater includes:</p> <ul style="list-style-type: none"> Bus route 364 along Ringwood-Warrandyte Road, Warrandyte <p>Water over the road may occur on:</p> <ul style="list-style-type: none"> Ringwood-Warrandyte Road, Warrandyte Tills Drive, Warrandyte Yarra Street, Warrandyte at Whipstick Gully Road Whipstick Gully Road, Warrandyte
8.72	<ul style="list-style-type: none"> 7 properties in total at risk of flooding. Water over the road may occur on Police Street, Warrandyte
8.35	<ul style="list-style-type: none"> 6 properties in total at risk of flooding. Water over the road may occur on First Street, Warrandyte
6.5	Major flood level
4.5	Moderate flood level
	<ul style="list-style-type: none"> 1 property in at risk of flooding.
3.0	Minor flood level

*The height measurement is at the Warrandyte gauge.

^This table includes information from previous flood studies, which are scientific models used to predict impacts at different flood heights and flows.



What roads are likely to flood?

During a flood, the roads listed below may flood and could be closed or become isolated.

For current road closures, check [VicTraffic](#). [VicEmergency](#) may include road closures in its warnings, see [page 10](#) for more information.

Warrandyte	Bulleen	Templestowe Lower
■ Everard Drive	■ Bulleen Road	■ Riverwood Lane
■ First Drive	■ Greenaway Street	■ Ruffey Street
■ Greenaway Street	■ Kim Close	■ Templestowe Road
■ Police Street	■ Kim Close	■ Union Street
■ Taroon Avenue	■ Manningham Road West	
■ Tills Drive		
■ Whipstick Gully Road		





Stay safe by never driving through floodwater. It can take just 15cm of flowing water to float a car, that's the height of an average pen.

Previous flood impacts

While no two floods are the same, understanding the impacts of past floods can help you anticipate impacts of future flood events.

November, 2011 Flood

- 55 millimetres of rain fell on Melbourne, taking the monthly rainfall total to 136 millimetres. This became the wettest November in Melbourne since 1975.
- The heavy rainfall resulted in flooding across many areas as the ground was already saturated meaning that more rain was not able to soak in.
- Several areas in Manningham were affected with Bulleen experiencing the most.

Your local services

Catchment Management Authority

For general advice about flooding and controls based on planning zones and overlays.

- **Melbourne Water**
melbournewater.com.au | 13 17 22

Local Council

For relief support after a flood event and general land use planning.

- **Manningham Council**
manningham.vic.gov.au |
03 9840 9333

Plan and prepare for floods

1 How to stay informed

VicEmergency is Victoria's source of emergency information and warnings.

- Set-up a watch zone for your area for alerts when warnings are issued.
- Learn about the three different warning levels.



VicEmergency app
emergency.vic.gov.au
1800 226 226



vicemergency



@vicemergency



2 Make an Emergency Plan

Use information from your Local Flood Guide and your Catchment Management Authority, to help you decide;

- What you will do in a flood emergency
- When you will do it
- Who you will inform



Red Cross RediPlan is a free tool that helps you create a simple emergency plan that supports the flood actions you have chosen.

- Visit redcross.org.au/prepare
- Download the [Get Prepared](#) app

3 Prepare an emergency kit



You may need to stay safe for 72 hours in a disaster before help arrives. Make sure you have safe drinking water, food, and any special needs or medications for all family.



There will be extra items to be added to your emergency kit in an emergency like clothes, a phone and charger.



Watch a video on how to get your Emergency kit ready.

youtu.be/XgyLnKDMkNo

4 Reduce impacts to your property

- Keep gutters and drains clear of debris including leaves and any other items.
- Check your building and contents insurance, what kind of flooding does it cover?
- Move your valuable possessions up high.
- Back up important files and documents to a cloud storage or USB kept elsewhere.
- Identify higher ground on or around your property, away from the danger area.
- Consider buying sand and sandbags ahead of time, refer to our Sandbag Guide for more information.

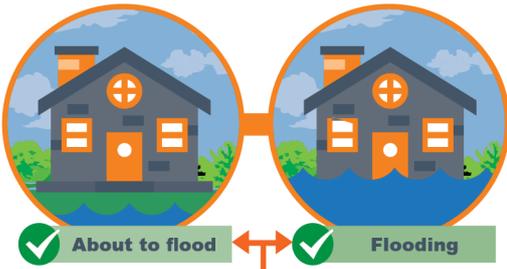


For more details and other tips, visit:
ses.vic.gov.au/flood



What to do in a flood emergency

When to call VICSES



 **Flood emergency assistance call VICSES 132 500**

 **If life threatening call triple zero 000**

Stay Informed

VicEmergency

Emergency warnings will provide information on what is happening and advice of what you should do.

You may not receive an official warning before a flood.



VicEmergency app
emergency.vic.gov.au
1800 226 226



vicemergency @vicemergency



■ Set-up a watch zone for alerts for your area.

Bureau of Meteorology



Monitor rainfall, river levels, weather forecasts/warnings.

bom.gov.au/vic/flood/melbourne.shtml

Emergency broadcasters



Radio | ABC 91.1FM

TV | Sky News

If you expect floodwater at your property

1



Bag it

Sandbag doorways and low-lying windows to slow floodwater entering your home.

2



Block it

Block toilets, bath and drains using a sandbag ideally placed inside a plastic rubbish bag.

3



Lift it

Put your valuables and electrical items as high as possible. Turn off power, gas, and water at the mains.

4



Leave

■ Leave **before** the flood arrives.

■ Check warnings from VicEmergency for information like evacuation or relief centres, and road closures.

■ Travel to the home of family or friends who are in a safe location, away from the flooded area.

Take your emergency kit and add the items below:



Phone & charger



Prescriptions & medication



Clothes for your family



Strong shoes



Pet needs

Never drive through floodwater

Large



A Large 4WD can be moved by water only 45cm deep.

Small



A small car can be moved by water only 15cm deep.



For more details and other tips, visit:

ses.vic.gov.au/flood

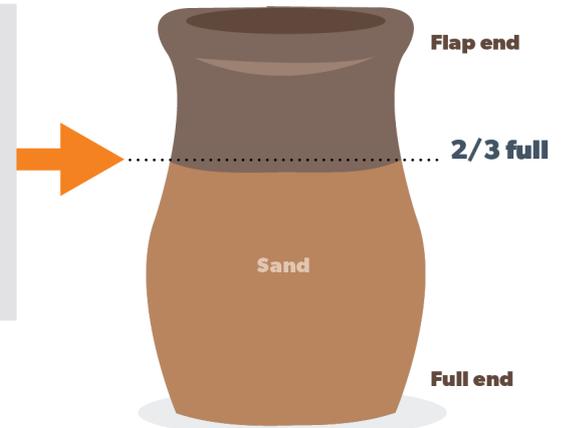


Sandbagging

Sandbags won't stop the water completely, but can reduce the amount of water entering your home.

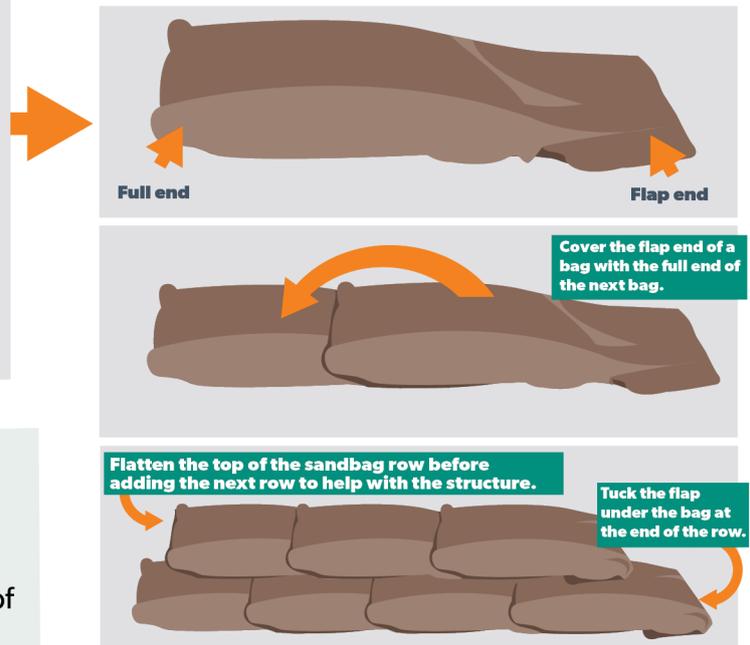
How do I fill a sandbag?

- Only use sand to fill hessian bags. Do not use dirt.
- Only fill sandbag two-thirds full.
- Do not over fill the sandbag as it will be too heavy to carry.
- Do not tie the top of the sandbag.
- Take care when filling and lifting the sandbag, to avoid injury.



How do I lay sandbags?

- Lay sandbags like brickwork. Stagger rows so that the joins do not line up.
- Start at one end and work to the other end.
- Ensure the unfilled part of the bag is covered by the next bag.
- Tuck flap under the bag at the end of the row.
- If the sandbag wall is going to be more than five (5) bags high, you will need to lay two (2) rows wide.



Where do I place the sandbags?

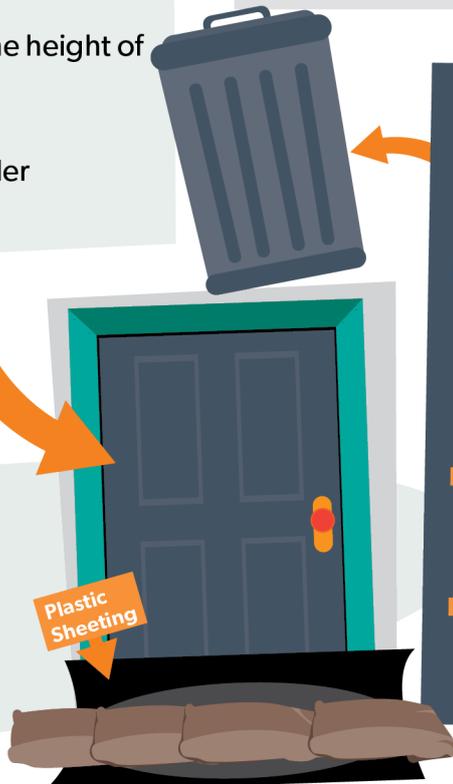
- Place sandbags in plastic bags to cover drainage holes in home (e.g. showers, toilets, sinks) to stop back flow of water.
- Place a small wall across doorways, at least the height of the expected water level. Be careful not to trap yourself inside.
- If available, plastic sheeting may be used under sandbags to reduce the seepage.

Block it

Toilets, bath and all drain holes



Plastic Sheeting



What do I do once I have finished with the sandbags?

- Sturdy gloves should be worn when handling wet sandbags as they can contain chemicals, waste and diseases.
- Sandbags that have been in contact with floodwater need to be thrown away.
- Contact your local council to find out how to dispose of your sandbags safely.



Sandbags and sand

Preparing your home

Having sandbag supplies ready can assist you before a flooding emergency occurs.

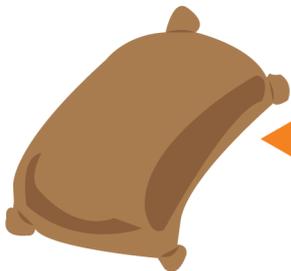


What supplies do I need to sandbag my home?

- Sandbags
- Sand
- Plastic sheeting
- Gloves and safety goggles
- Shovel and hand scoop

Where can I purchase these supplies?

- Many sandbag supplies can be purchased from hardware stores or garden centres.
- VICSES do not routinely supply sandbags to households.
- During floods, sandbag distribution points may be established in flood-affected areas.

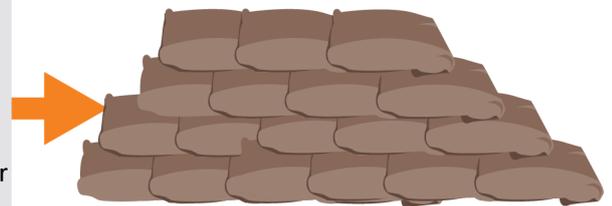


How many sandbags will I need and how much sand?

- Most homes can be protected by less than 25 sandbags.
- The number of sandbags will depend on your local flood risk and availability.
- Sandbags are filled 2/3 full which requires around 15-20kgs of sand per bag.

How do I store my sand and sandbags?

- Filled sandbags only have a short shelf life.
- It is recommended to store sandbags empty.
- Sandbags should be stored in a cool dry area away from UV light.
- Sand should be kept dry and can be stored in water resistant containers or under a tarp.
- Sand is heavy - ensure it is stored so it can be moved safely.



When should I sandbag my home?

- **You** are best placed to decide if there is a need to sandbag your home, based on local knowledge and past flood events.
- Monitor your local conditions. Stay up-to-date with weather forecasts and warnings by downloading the **BOM Weather** and **VicEmergency** apps, or call the VicEmergency Hotline on 1800 226 226.
- If you think you are at risk, do not wait for an official warning to act.