

Version 5.0  
February 2019



# Storm & Flood Emergency Plan

Sub-plan 1 of 8 of the Municipal Emergency  
Management Plan

City of Port Phillip and VICSES  
DRAFT



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## Distribution List

Copy No.	Issue To:		Date
	Position	Organisation	
Original	MEMP Committee Executive Officer	Port Phillip City Council	
1	Council Office Copy	Port Phillip City Council	
2	MEMP Committee Chairman	Port Phillip City Council	
3	MERO	Port Phillip City Council	
4	Deputy MERO	Port Phillip City Council	
5	MRM	Port Phillip City Council	
6	MERC	Victoria Police	
7	RERC	Victoria Police	
8	REMI	Victoria Police	
9	Deputy MERC	Victoria Police	
10	ROEM	VICSES Central RHQ	
11	Controller	VICSES (Port Phillip Unit)	
12	Team Leader Hydrology & Flood Warnings	Melbourne Water	
13	Flood Warning Manager	Bureau of Meteorology (Flood Warning)	
14	Regional Emergency Management Officer	VicRoads	
15	EM Unit	Ambulance Victoria	
16	Emergency Management Officer	Dept of Education and Training	
17	Emergency Management Coordinator	Department of Health and Human Services	
18	ICC's	VICSES	
19	Commander	MFB	
20	Area Chief Ranger	Parks Vic	
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## Document Transmittal Form / Amendment Certificate

This Municipal Storm Flood Emergency Plan (SFEP) will be amended, maintained and distributed as required by VICSES in consultation with Port Phillip Council.

Suggestions for amendments to this Plan should be forwarded to VICSES Regional Office Unit 6, 3-5 Gilda Court, Mulgrave, Vic, 3170.

MEMO  
City of Port Phillip  
Private Bag No.3  
PO St Kilda VIC 3182

Amendments listed below have been included in this Plan and promulgated to all registered copyholders.

Amendment Number	Date of Amendment	Amendment Entered By	Summary of Amendment
Draft V 2.1	03/06/11	L Daniel	
Draft V 2.2	14/02/2012	L Daniel	Conversion to new Draft V2.2 Oct 2011
Draft V 2.3	19/12/2012	D Martin	Update following meeting with SES
Final Version 3.0	15/2/2013	A Barnard	Document for MEMPC sign off
Update 3.1	29/02/2016	J Lenihan	Agency & reference updates
Draft V 4.0	3/11/2016	R Butler/A Barnard	Updates of Appendices A,B,C,F and addition of G
Draft V 5.0	28/01/2019	R Butler	Update of Appendices A, B, C, F, G and addition of H

This plan will be maintained on the City of Port Phillip website [www.portphillip.vic.gov.au](http://www.portphillip.vic.gov.au) and the VICSES website [www.ses.vic.gov.au](http://www.ses.vic.gov.au)

## List of Abbreviations & Acronyms

The following abbreviations and acronyms are used in the Plan:

The following abbreviations and acronyms are used in the Plan			
AAR	After Action Review	FZ	Floodway Zone
AEP	Annual Exceedance Probability	IC	Incident Controller
AHD	Australian Height Datum (the height of a location above mean sea level in metres)	ICC	Incident Control Centre
AIDR	Australian Institute of Disaster Resilience	IMT	Incident Management Team
AIIMS	Australasian Inter-service Incident Management System	IMS	Incident Management System
AoCC	Area of Operations Control Centre / Command Centre	EMLO	Emergency Management Liaison Officer
ARI	Average Recurrence Interval	LSIO	Land Subject to Inundation Overlay
ARMCANZ	Agricultural & Resource Management Council of Australia & New Zealand	MECC	Municipal Emergency Coordination Centre
AV	Ambulance Victoria	MEMP	Municipal Emergency Management Plan
BoM	Bureau of Meteorology	MEMPC	Municipal Emergency Management Planning Committee
CEO	Chief Executive Officer	MERC	Municipal Emergency Response Coordinator
CERA	Community Emergency Risk Assessment	MERO	Municipal Emergency Resource Officer
CFA	Country Fire Authority	MFB	Metropolitan Fire and Emergency Services Board
CMA	Catchment Management Authority	MRM	Municipal Recovery Manager
RERC	Regional Emergency Response Coordinator	PMF	Probable Maximum Flood
RERCC	Regional Emergency Response Coordination Centre	RCC	Regional Control Centre
DHHS	Department of Health and Human Services	RDO	Regional Duty Officer
DoI	Department of Infrastructure	SBO	Special Building Overlay
DoT	Department of Transport	SCC	State Control Centre
DJPR	Department of Economic Development, Jobs, Precincts and Regions	SCC	State Control Centre
DELWP	Department of Environment, Land, Water and Planning	SERP	State Emergency Response Plan
EMMV	Emergency Management Manual Victoria	SEWS	Standard Emergency Warning Signal
EMT	Emergency Management Team	SHERP	State Health Emergency Response Plan
EO	Executive Officer	SOP	Standard Operating Procedure
FO	Floodway Overlay	VicPol	Victoria Police
FWS	Flood Warning System	VICSES	Victoria State Emergency Service

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## **Part 1. INTRODUCTION**

### **1.1 Municipal Endorsement**

This Storm and Flood Emergency Plan (SFEP) has been prepared by the City of Port Phillip Council and with the authority of the MEMPC pursuant to Section 20 of the Emergency Management Act 1986 (as amended).

This SFEP is a sub plan to the City of Port Phillip Municipal Emergency Management Plan (MEMP), is consistent with the Emergency Management Manual Victoria (EMMV) and the Victoria Flood Management Strategy (DNRE, 1998a), and takes into account the outcomes of the Community Emergency Risk Assessment (CERA) process undertaken by the Municipal Emergency Management Planning Committee (MEMPC).

The Storm and Flood Emergency Plan is consistent with the Regional Flood Emergency Plan and the State Flood Emergency Plan.

This Storm and Flood Emergency Plan is a result of the cooperative efforts of the City of Port Phillip Council Flood Planning Committee (MFPC) and its member agencies.

This Plan is endorsed by the City of Port Phillip MEMPC as a sub plan of the MEMP.

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## 1.2 The Municipality

An outline of the City of Port Phillip in terms of its location, demography and other general matters is provided in the MEMP. An outline of the flood threat is provided in Appendix A of this Plan.

## 1.3 Purpose and Scope of this Storm and Flood Emergency Plan

The purpose of this SFEP is to detail arrangements agreed for the planning, preparedness/prevention, response and recovery from flood incidents within the City of Port Phillip

As such, the scope of the Plan is to:

- Identify the Flood Risk to City of Port Phillip;
- Support the implementation of measures to minimise the causes and impacts of flood incidents within the City of Port Phillip;
- Detail Response and Recovery arrangements including preparedness, Incident Management, Command and Control;
- Identify linkages with Local, Regional and State emergency and wider planning arrangements with specific emphasis on those relevant to flood.
  - Flood Management Plan for City of Port Phillip (2019-2024).
  - Draft Elster Creek Catchment Flood Management Plan (2019-2024).
  - Central Regional Emergency Response Plan (VICSES) 2018/2019
  - City of Port Phillip Municipal Emergency Management Plan

## 1.4 Municipal Flood Planning Committee (MFPC)

Membership of the City of Port Phillip Flood Planning Committee (MFPC) will comprise of the following representatives from the following agencies and organisations:

- VICSES (i.e. Unit Controller & Regional Officer – Emergency Management) (**Chair**),
- Port Phillip Council (Municipal Emergency Resource Officer (MERO))
- Victoria Police (City of Port Phillip Municipal Emergency Response Co-ordinator) (MERC)
- Melbourne Water,
- Department of Health and Human Services (DHHS) as required,
- Department of Sustainability and Environment, Land, Water and Planning as required
- Metropolitan Fire and Emergency Services Board (MFESB)
- VicRoads
- Local community representatives and
- Other agencies as required

## 1.5 Responsibility for Planning, Review & Maintenance of this Plan

This Municipal Flood Emergency Plan must be maintained in order to remain effective.

VICSES through the Flood Planning Committee has responsibility for preparing, reviewing, maintaining and distributing this plan.

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The MFPC will meet at least once per year.

The plans should be reviewed:

- Following any new flood study;
- Change in non-structural and/or structural flood mitigation measures;
- After the occurrence of a significant flood event within the Municipality to review and where necessary amend arrangements and information contained in this Plan.

## **1.6 Endorsement of the Plan**

The SFEP will be circulated to MFPC members to seeking acceptance of the draft plan.

Upon acceptance, the plan is forwarded to the MEMPC for endorsement with the recommendation to include the SFEP as a sub-plan of the MEMPlan.

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## **Part 2. PREVENTION / PREPAREDNESS ARRANGEMENTS**

### **2.1 Community Awareness for all Types of Flooding**

Details of this SFEP will be released to the community through local media, the FloodSafe program, websites (VICSES and the Municipality) upon formal adoption by the City of Port Phillip Council.

VICSES with the support of Port Phillip Council will coordinate community education programs for flooding within the council area. E.g. Flood Safe / Storm Safe.

A Community Education Plan (CEP) to support this plan will be developed in conjunction with VICSES local units. VICSES local units will lead the delivery of the CEP with support from Port Phillip Council and VICSES Regions.

### **2.2 Structural Flood Mitigation Measures**

The following summary of structural flood mitigation measures exist within the Council area:

Refer to appendix A and C for detailed information of structural flood mitigation measures.

### **2.3 Non-structural Flood Mitigation Measures**

#### **2.3.1 Exercising the Plan**

Arrangements for exercising this Plan will be at the discretion of the MEMPC. This Plan should be regularly exercised, preferably on an annual basis.

Arrangements for flood warning are contained within the State Flood Emergency Plan and the EMMV (Part7) and on the BoM website.

Specific details of local flood warning system arrangements are provided in appendix E.

#### **2.3.2 Flood Wardens**

Flood Wardens provide a means of gathering information in real time on flood behaviour along a stream system, and a network for the distribution of community information and warnings to the community along the stream system.

The following arrangements for Flood Wardens have been established:

No Flood Wardens have been established in the City of Port Phillip.

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## **Part 3. RESPONSE ARRANGEMENTS**

### **3.1 Introduction**

#### **3.1.1 Activation of Response**

Flood response arrangements may be activated by the Regional Duty Officer (RDO) VICSES Central Region or Incident Controller.

The Incident Controller/RDO VICSES will activate agencies as required and documented in the State and Region Flood Emergency Plans.

#### **3.1.2 Responsibilities**

There are a number of agencies with specific roles that will act in support of VICSES and provide support to the community in the event of a serious flood within the City of Port Phillip. These agencies will be engaged through the EMT.

The general roles and responsibilities of supporting agencies are as agreed within the City of Port Phillip MEMP, EMMV (Part 7 'Emergency Management Agency Roles'), State Flood Emergency Plan and Regional Flood Emergency Plan.

#### **3.1.3 Municipal Emergency Coordination Centre (MECC)**

Liaison with the MECC will be through the established Division/Sector Command and through Municipal involvement in the Incident EMT, in particular the Municipal Emergency Response Coordinator (MERC). The VICSES RDO / ICC will liaise with the MECC directly if no Division/Sector Command is established.

The function, location, establishment and operation of the MECC will be as detailed in the City of Port Phillip MEMP.

#### **3.1.4 Escalation**

Most flood incidents are of local concern and an appropriate response can usually be coordinated using local resources. However, when these resources are exhausted, the State's arrangements provide for further resources to be made available, firstly from neighbouring Municipalities (on a regional basis) and then on a State-wide basis.

Resourcing and event escalation arrangements are described in the EMMV ('State Emergency Response Plan' – section 3.6).

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## 3.2 Strategic Control Priorities

To provide guidance to the Incident Management Team (IMT), the following strategic control priorities shall form the basis of incident action planning processes:

1. Protection and preservation of life is paramount - this includes:
  - a. Safety of emergency services personnel, and;
  - b. Safety of community members including vulnerable community members and visitors/tourist located within the incident area.
2. Issuing of community information and community warnings detailing incident information that is timely, relevant and tailored to assist community members make informed decisions about their safety.;
3. Protection of critical infrastructure and community assets that supports community resilience;
4. Protection of residential property as a place of primary residence;
5. Protection of assets supporting individual livelihoods and economic production that supports individual and community financial sustainability
6. Protection of environmental and conservation values that considers the cultural, biodiversity, and social values of the environment;

Circumstances may arise where the Incident Controller is required to vary these priorities, with the exception being that the protection of life should remain the highest. This shall be done in consultation with the State Controller and relevant stakeholders based on sound incident predictions and risk assessments.

## 3.3 Command, Control & Coordination

The Command, Control and Coordination arrangements in this Municipal Flood Emergency Plan must be consistent with those detailed in State and Regional Flood Emergency Plans. For further information, refer to sections 3.3,3.4, 3.5 & 3.6 of the EMMV.

The specific details of the Command, Control and Coordination arrangements for this plan are to be provided in **Appendix C**.

### 3.3.1 Control

Functions 5(a), 5(b) and 5(c) at Part 2 of *the Victoria State Emergency Service Act 1986 (as amended)* detail the authority for VICSES to plan for and respond to flood.

Part 7.1 of the EMMV prepared under the *Emergency Management Act 1986 (as amended)*, identifies VICSES as the Control Agency for flood. It identifies DSE as the Control Agency responsible for “*dam safety, water and sewerage asset related incidents*” and other emergencies

All flood response activities within the City of Port Phillip including those arising from a dam failure or retarding basin / levee bank failure incident will therefore be under the control of the appointed Incident Controller, or his / her delegated representative.

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### **3.3.2 Incident Controller (IC)**

An Incident Controller (IC) will be appointed by the VICSES (as the Control Agency) to command and control available resources in response to a flood event on the advice of the Bureau of Meteorology (or other reliable source) that a flood event will occur or is occurring. The Incident Controller responsibilities are as defined in Part 3.36 of the EMMV

### **3.3.3 Incident Control Centre (ICC)**

As required, the Incident Controller will establish an Incident Control Centre (ICC) from which to initiate incident response command and control functions. The decision as to if and when the ICC should be activated, rests with the Control Agency (i.e. VICSES).

Pre-determined Incident Control Centre locations are:

- Dandenong
- Sunshine
- Ferntree Gully

### **3.3.4 Divisions and Sectors**

To ensure that effective Command and Control are in place, the Incident Controller may establish Divisions and Sectors depending upon the complexity of the event and resource capacities.

The following Sectors may be established to assist with the management of flooding within the Municipality:

Port Phillip Unit: 525 Williamstown Road, Port Melbourne

Currently the following locations have been identified as possible Divisional Command Points for events within the Port Phillip Municipality.

Glen Eira SES - 92 Bignell Road, Bentleigh East

SES VHQ - 168 Sturt Street, Southbank

Note: Another project is running concurrently that seeks to identify suitable locations in to the future for Division Command locations & Sector Command location points, which may see this location change.

### **3.3.5 Incident Management Team (IMT)**

The Incident Controller will form an Incident Management Team (IMT).

Refer to 3.5 of the EMMV for guidance on IMTs and Incident Management Systems (IMs).

### **3.3.6 Emergency Management Team (EMT)**

The Incident Controller will establish a multi-agency Emergency Management Team (EMT) to assist the flood response. The EMT will consist of key personnel (with appropriate authority) from stakeholder agencies and relevant organisations who need to be informed of strategic issues related to incident control and who are able to provide high level strategic guidance and policy advice to the Incident Controller for consideration in developing incident management strategies.

Organisations, including City of Port Phillip required within the EMT will provide an Emergency Management Liaison Officer (EMLO) to the ICC if and as required as well as

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other staff and / or resources identified as being necessary, within the capacity of the organisation.

Refer to 3.5 of the EMMV for guidance on EMTs.

### **3.3.7 On Receipt of a Flood Watch / Severe Weather Warning**

Incident Controller or VICSES RDO (until an incident controller is appointed) will undertake actions as defined within the flood intelligence cards (appendix C). General considerations by the Incident Controller/VICSES RDO will be as follows:

- Review flood intelligence to assess likely flood consequences
- Monitor weather and flood information – [www.bom.gov.au](http://www.bom.gov.au)
- Assess Command and Control requirements.
- Review local resources and consider needs for further resources regarding personnel, property protection, flood rescue and air support
- Notify and brief appropriate officers. This includes Regional Control Centre (RCC) (if established), State Control Centre (SCC) (if established), Council, other emergency services through the EMT.
- Assess ICC readiness (including staffing of IMT and EMT) and open if required
- Ensure flood bulletins and community information are prepared and issued to the community
- Monitor watercourses and undertake reconnaissance of low-lying areas
- Develop media and community information management strategy
- Ensure flood mitigation works are being checked by owners
- Develop and issue incident action plan, if required
- Develop and issue situation report, if required

### **3.3.8 On Receipt of the First and Subsequent Flood Warnings**

Incident Controller/VICSES RDO (until an incident controller is appointed) will undertake actions as defined within the flood intelligence cards (appendix C). General considerations by the Incident Controller/VICSES RDO will be as follows:

- Develop an appreciation of current flood levels and predicted levels. Are floodwaters, rising, peaking or falling?
- Review flood intelligence to assess likely flood consequences. Consider:
  - What areas may be at risk of inundation
  - What areas may be at risk of isolation
  - What areas may be at risk of indirect affects as a consequence of power, gas, water, telephone, sewerage, health, transport or emergency service infrastructure interruption
  - The characteristics of the populations at risk
- Determine what the at-risk community need to know and do as the flood develops.
- Warn the at-risk community including ensuring that an appropriate warning and community information strategy is implemented including details of:
  - The current flood situation

- 
- Flood predictions
  - What the consequences of predicted levels may be
  - Public safety advice
  - Who to contact for further information
  - Who to contact for emergency assistance
  - Liaise with relevant asset owners as appropriate (i.e. water and power utilities)
  - Implement response strategies as required based upon flood consequence assessment.
  - Continue to monitor the flood situation – [www.bom.gov.au/vic/flood/](http://www.bom.gov.au/vic/flood/)
  - Continue to conduct reconnaissance of low-lying areas

### 3.4 Community Information and Warnings

Guidelines for the distribution of community information and warnings are contained in the State Flood Emergency Plan.

Community information and warnings communication methods available include:

- Emergency Alert;
- Phone messages (including SMS);
- Radio and Television;
- Two-way radio;
- Mobile and fixed public address systems;
- Sirens;
- Verbal Messages (i.e. Doorknocking);
- Agency Websites;
- VICSES Flood Storm Information Line;
- Variable Message Signs (i.e. road signs);
- Community meetings;
- Newspapers;
- Email;
- Telephone trees;
- Community Flood Wardens;
- Newsletters;
- Letter drops;
- Social media and/or social networking sites (i.e. twitter and/or facebook).

Refer to Appendix C and E for the specific details of how community information and warnings are to be provided.

The release of flood bulletins and information with regard to response activities at the time of a flood event is the responsibility of VICSES, as the Control Agency.

Council has the responsibility to assist VICSES to warn individuals within the community including activation of flood warning systems, where they exist. Responsibility for public information, including media briefings, rest with VICSES as the Control Agency.

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Other agencies such as MFB, DELWP and VICPOL may be requested to assist VICSES with the communication of community flood warnings.

In cases where severe flash flooding is predicted, dam failure is likely or flooding necessitating evacuation of communities is predicted, the Incident Controller will use the Emergency Alert System and Standard Emergency Warning System (SEWS).

DH will coordinate information regarding public health and safety precautions.

### **3.5 Media Communication**

The Incident Controller through the Information Unit established at the ICC will manage Media communication. If the ICC is not established the RDO will manage all media communication.

### **3.6 Impact assessment**

An impact assessment can be conducted in accordance with part 3 of the EMMV to assess and record the extent and nature of damage caused by flooding. This information may then be used to provide the basis for further needs assessment and recovery planning by DHS and recovery agencies.

### **3.7 Preliminary Deployments**

When flooding is expected to be severe enough to cut access to towns, suburbs and/or communities the Incident Controller will consult with relevant agencies to ensure that resources are in place if required to provide emergency response. These resources might include emergency service personnel, food items and non-food items such as medical supplies, shelter, assembly areas, relief centres etc.

### **3.8 Response to Flash Flooding**

Emergency management response to flash flooding should be consistent with the guideline for the emergency management of flash flooding contained within the State Flood Emergency Plan.

When conducting pre-event planning for flash floods the following steps should be followed, and in the order as given:

1. Determine if there are barriers to evacuation by considering warning time, safe routes, resources available and etc;
2. If evacuation is possible, then evacuation should be the adopted strategy and it must be supported by a public information capability and a rescue contingency plan;
3. Where it is likely people will become trapped by floodwaters due to limited evacuation options safety advice needs to be provided to people at risk advising them not to attempt to flee by entering floodwater if they become trapped, and that it may be safer to seek the highest point within the building and to telephone 000 if they require rescue. This advice needs to be provided even when evacuation may be possible, due the likelihood that not all community members will evacuate.
4. For buildings known to be structurally un-suitable an earlier evacuation trigger will need to be established (return to step 1 of this cycle).
5. If an earlier evacuation is not possible then specific preparations must be made to rescue occupants trapped in structurally unsuitable buildings either pre-emptively or as those people call for help.

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During a flash flood it will often be difficult, due the rapid development of flooding, to establish evacuation (emergency relief) centres ahead of actually triggering the evacuation as is normal practice but this is insufficient justification for not adopting evacuation.

Refer to **Appendix C** for response arrangements for flash flood events.

### 3.9 Evacuation

In Victoria, evacuation is largely voluntary, However in particular circumstances, legislation provides some emergency services with authority to remove people form areas or prohibit their entry.

The decision to recommend or warn people to prepare to evacuate or to evacuate immediately rests with the Incident Controller.

It is the choice of individuals as to how they respond to this recommendation.

Once the decision is made, VicPol are responsible for the management of the evacuation process where possible. VICSES and other agencies will assist where practical. VICSES is responsible for the development and communication of evacuation warnings.

VicPol and/or Australian Red Cross may take on the responsibility of registering people affected by a flood emergency including those who have been evacuated.

Refer to section 3.8 of the EMMV and the Evacuation Guidelines for guidance of evacuations for flood emergencies.

Refer to **Appendix C** of this Plan for detailed evacuation arrangements for City of Port Phillip.

### 3.10 Flood Rescue

VicPol as the designated Control Agency for water rescue, coordinates rescues undertaken during flood events.

In order to activate water rescue services, VicSES as a Control Agency for overall flood response, will identify areas at risk of requiring rescue and notify the Officer in Charge of the Water Police Search and Rescue Squad to request pre-deployment of rescue resources to those areas.

In conducting rescues VicPOL may require the assistance of appropriately trained and equipped personnel. In these circumstances, appropriately trained and equipped VicSES units or other agencies may carry out rescues.

Rescue operations may be undertaken where voluntary evacuation is not possible, has failed or is considered too dangerous for an at-risk person or community. An assessment of available flood rescue resources (if not already done prior to the event) should be undertaken prior to the commencement of Rescue operations.

Rescue is considered a high-risk strategy to both rescuers and persons requiring rescue and should not be regarded as a preferred emergency management strategy. Rescuers should always undertake a dynamic risk assessment before attempting to undertake a flood rescue.

Resources available for use for rescues to be carried out within City of Port Phillip can be/are detailed in **Appendix C**.

### 3.11 Animal Welfare

Animal management guidelines are provided in the MEMP along with the location and contact details for appropriate animal welfare entities.

The requirement for animal management in Port Phillip is not expected to be excessive or involve large livestock animals.

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Matters relating to the welfare of livestock, companion animals and wildlife (including feeding and rescue) are referred to DEDJTR. This includes requests for emergency supply and / or delivery of fodder to stranded livestock or for livestock rescue.

Matters relating to the welfare of wildlife are to be referred to DELWP.

### **3.12 Aircraft Management**

Aircraft can be used for a variety of purposes during flood operations including evacuation, resupply, reconnaissance, intelligence gathering and emergency travel.

Air support operations will be conducted under the control of the Incident Controller.

The Incident Controller may request aircraft support through the State Air Desk located at the State Control Centre will establish priorities.

Suitable airbase facilities are located at:

- Essendon
- Moorabbin

### **3.13 Resupply**

Communities, neighbourhoods or households can become isolated during floods as a consequence of road closures or damage to roads, bridges and causeways. Under such circumstances, the need may arise to resupply isolated communities/properties with essential items.

When predictions/intelligence indicates that communities, neighbourhoods and/or households may become isolated, VICSES will advise businesses and/or households that they should stock up on essential items.

After the impact, VICSES can support isolated communities through assisting with the transport of essential items to isolated communities and assisting with logistics functions.

Resupply operations are to be included as part of the emergency relief arrangements with VICSES working with the relief agencies to service communities that are isolated.

### **3.14 Essential Community Infrastructure and Property Protection**

Essential Community Infrastructure and Property (e.g. residences, businesses, roads, power supply etc.) may be affected in the event of a flood.

The City of Port Phillip maintains a small stock of sandbags, and back-up supplies are available through the VICSES Regional Headquarters. The Incident Controller will determine the priorities related the use of sandbags, which will be consistent with the strategic priorities.

If VICSES sandbags are becoming limited in supply, then priority will be given to protection of Essential Community Infrastructure. Other high priorities may include for example the protection of historic buildings.

Property may be protected by:

- Sandbagging to minimise entry of water into buildings
- Encouraging businesses and households to lift or move contents
- Construction of temporary levees in consultation with Melbourne Water, LGA and VICPOL and within appropriate approval frameworks.

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The Incident Controller will ensure that owners of Essential Community Infrastructure are kept advised of the flood situation. Essential Community Infrastructure providers must keep the Incident Controller informed of their status and ongoing ability to provide services.

Refer to **Appendix C** for further specific details of essential infrastructure requiring protection.

### 3.15 Disruption to Services

Disruption to services other than essential community infrastructure and property can occur in flood events. Refer to appendix C for specific details of likely disruption to services and proposed arrangements to respond to service disruptions in City of Port Phillip.

### 3.16 Road Closures

City of Port Phillip and VicRoads will carry out their formal functions of road closures including observation and placement of warning signs, road blocks etc. to its designated local and regional roads, bridges, walking and bike trails. City of Port Phillip staff may also liaise with and advise VicRoads as to the need or advisability of erecting warning signs and / or of closing roads and bridges under its jurisdiction. VicRoads are responsible for designated main roads and highways and Councils are responsible for the designated local and regional road network.

VICROADS and City of Port Phillip will communicate community information regarding road closures.

### 3.17 Dam Failure

DELWP is the Control Agency for dam safety incidents (e.g. breach, failure or potential breach / failure of a dam), however VICSES is the Control Agency for any flooding that may result.

Major dams with potential to cause structural and community damage within the Municipality are contained in **Appendix A**.

### 3.18 Waste Water related Public Health Issues and Critical Sewerage Assets

Inundation of critical sewerage assets including septic tanks and sewerage pump stations may result in water quality problems within the Municipality. Where this is likely to occur or has occurred the responsibility agency for the critical sewerage asset should undertake the following:

- Advise VICSES of the security of critical sewerage assets to assist preparedness and response activities in the event of flood;
- Maintain or improve the security of critical sewerage assets;
- Check and correct where possible the operation of critical sewerage assets in times of flood;
- Advise the ICC in the event of inundation of critical sewerage assets.

It is the responsibility of the City of Port Phillip Environmental Health Officer to inspect and report to the MERO and the ICC on any water quality issues relating to flooding.

### 3.19 After Action Review

VICSES will coordinate the after action review arrangements of flood operations as soon as practical following an event.

All agencies involved in the flood incident should be represented at the after action review.

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## **Part 4. EMERGENCY RELIEF AND RECOVERY ARRANGEMENTS**

### **4.1 General**

Arrangements for recovery from a flood incident within the City of Port Phillip are detailed in the City of Port Phillip MEMP and/or the Recovery Sub-plan.

### **4.2 Emergency Relief**

The decision to recommend the opening of an emergency relief centre rests with the Incident Controller. Incident Controllers are responsible for ensuring that relief arrangements have been considered and implemented where required under the State Emergency Relief and Recovery Plan (Part 4 of the EMMV).

The range and type of emergency relief services to be provided in response to a flood event will be dependent upon the size, impact, and scale of the flood. Refer to 4.4 of the EMMV for details of the range of emergency relief services that may be provided.

Suitable relief facilities identified for use during floods are detailed in Appendix C and/or the MEMP.

Details of the relief arrangements are available in the MEMP.

### **4.3 Animal Welfare**

Matters relating to the welfare of livestock and companion animals (including feeding and rescue) are to be referred to DEDJTR.

Requests for emergency supply and/or delivery of fodder to stranded livestock or for livestock rescue are passed to DEDJTR.

Matters relating to the welfare of wildlife are to be referred to DELWP.

### **4.4 Transition from Response to Recovery**

VICSES as the Control Agency is responsible for ensuring effective transition from response to recovery. This transition will be conducted in accordance with existing arrangements as detailed in Part 3 Section 4.6 of the EMMV.

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## APPENDIX A - FLOOD THREATS FOR CITY OF PORT PHILLIP

### General

The City of Port Phillip lies on the northern edge of Port Phillip Bay, to the south of the Melbourne central business district. It is approximately 20 km<sup>2</sup> in area with 11 km of foreshore and it has a population of 108,558 people (ABS, ERP, 2016). Approximately 35% of the Municipality is three metres or less above sea level and the terrain is relatively flat. Flooding issues that have occurred within the City of Port Phillip include floods caused by high tides, floods due to pipe blockages and floods associated with intense rainfall events.

The predominant land use is residential with a high proportion of flats and high rise accommodation. However, there are significant pockets of light and medium industry, notably in South Melbourne and Port Melbourne. The area has been extensively developed which reflects its location as an inner suburb of Melbourne. There are also areas of commercial offices, particularly along St Kilda Road and Queens Road. Albert Park Lake and the surrounding park land are also located in the municipality.

The City of Port Phillip drainage infrastructure was largely installed in the late 1800's to the mid 1900's, to standards and requirements applicable at the time. Since the installation of the drainage system the City of Port Phillip has seen intense development and in many situations the existing drainage does not cater for the requirements of today or meet today's design standards.

Large severe floods within the Municipality generally occur as a result of a moist warm airflow from northern Australia bringing moderate to heavy rainfall over a period of 12 hours or more following a prolonged period of general rainfall. The period of general rainfall "wets up" the catchments and (partially) fills both the on-stream dams and the natural floodplain storage. These combine to increase the runoff generated during the subsequent period of heavy rainfall.

Large but less severe floods result from sequences of cold fronts during winter and spring that progressively wet up the catchments and fill the on-stream dams and the natural floodplain storage. Prolonged moderate to heavy rain leads to major flooding.

For more information on flood threats within the City of Port Phillip, the studies conducted below can be obtained by contacting Port Phillip City Council:

- St Kilda Drainage Study 1999
- Port Phillip Drainage Improvement Program 1999
- Stormwater Management Plan 1999
- South Melbourne Drainage Study 2002
- Elster Creek Catchment Study 2005
- Planning for Climate Change 2005
- Flood Management Drainage Study 2007
- Victorian Coastal Strategy 2008
- Stormwater Action Plan 2009
- Managing Stormwater Flooding Risks in Melbourne
- Climate Change in Port Phillip and Westernport and Victoria Drainage Strategy 2012

## Flash Flooding and Overland Flows

Short Duration, high intensity rainfall (usually associated with thunderstorms) can cause localised flooding within the municipality along overland flow paths when the local urban drainage system surcharges. Such events, which are mainly confined to the summer months, do not generally create widespread flooding since they only last for a short time and affect limited areas. Flooding from these storms occurs with little warning and localised damage can be severe.

High intensity rainfall such as associated with thunderstorms giving average rainfall rates of more than 20mm/hour for an hour or more is likely to lead to flash flooding and / or overland flows, across the municipality.

Blocked or capacity impaired stormwater drains can also lead to overland flows and associated flooding: the drain surcharges and excess water flows above ground.

Planning Scheme delineations within the Municipality for Flash Flooding events include Special Building Overlays 1 & 2 (SBO1 & SBO2). Contact Port Phillip City Council for information on these planning scheme overlays. *Note: These special building overlays have recently been reviewed and formed part of a planning scheme amendment in 2013.*

Table A1 below outlines the major catchments within the Municipality and a breakdown of the number of properties affected within each catchment. It also outlines a risk rating as devised from Melbourne Water's Flood Risk Matrix. For more information on the Flood Risk Matrix for the City of Port Phillip, see the Port Phillip Flood Management Plan available from Port Phillip City Council.

Drain / Waterway	Number of Commercial / Industrial Properties Within 1% AEP Flood Extent	Number of Residential Properties Within 1% AEP Flood Extent	Total Number of Properties	Risk Score (out of 10)	Risk Rating (medium, high, extreme)
Elwood Canal / Elsternwick Main Drain & Elster Creek (Includes Koornang Main Drain, Caulfield Main Drain & Moorabbin Drain)	494	5944	6438	9	Extreme
Shakespeare Grove Main Drain	231	919	1150	9	Extreme
Cowderoy Street Main Drain	23	264	287	8	High
Hanna Street Main Drain	110	239	349	8	High
Princes Street Main Drain	37	526	563	7	Medium
Rosny Street Main Drain	8	257	265	7	Medium

Table A1 – Properties Impacted within Flood Extent for Individual Drains

Table A2 below outlines some of the flash flooding hotspots within the Municipality. For more information on these hotspots, see **Appendices C & F**.

Number	Location	Main Cause A= Blockage/ Poor infrastructure B= Intense Rainfall	Comment
1	Pier Street	A (No outlet)	Frequently floods, whenever it rains, street/gutter flooding. High rise complex of flat – gets into car parks and almost into building. <i>Issue resolved. Pumping station and outlet constructed as part of the MPV redevelopment of Princes Pier</i>

Number	Location	Main Cause A= Blockage/ Poor infrastructure B= Intense Rainfall	Comment
2	Corner of Raglan/Princes @ Reserve	A	Tree root problems. Floods with heavier rains, depends on how often roots cleaned.
3	Edwards Avenue	A	Flooding but contained in street with wide footpath.
4	Walter Street	A	Street flooding (heavily traffic road so not good to have this amount of flooding in the street)
5	Montague St Underpass	A	Quite deep water ponds in underpass particularly in intense short duration rainfall. Flooding affects traffic.
6	Bay Street	A	Both sides of road flooded, flooding contained within the street.
7	Albert/Ferrars Place	A	Water ponding – can't get away due to tree roots. Car damage with cars parked on the street.
8	York Street	A	Debris blockage over grates, underpass. Quite deep water ponds in underpass particularly in intense short duration rainfall. Flooding affects traffic.
9	Dorcas St/Kings Way	A	Blocked pit, small pipes within pit easily blocked.
10	Kings Way	B	(March 2010) Cars flooded. Houses and shops flooding up to door and inside in some instances as a result of intense rain.
11	Kings Way	B	(March 2010) Street flooding as a result of intense rain.
12	Town Hall @ Bay Street	A	Flooding up to footpath, people can't walk past the town hall.
13	St Kilda Road	A	Flooding particularly at one pit, flooding within the street.
14	Albert Road	A	Broken pipe. Flooding at the corner, car parking bays affected.
15	Albert Road	A	Dirt Road causes blockage through dirt/debris. Flooding within the street.
16	Albert Road	A	Historical problems with tree roots. Has been fixed and no recorded problems since.
17	Roy Street	A	Street flooding, flooding in not particularly heavy rain. Frequent nuisance flooding, numerous complaints.
18	Armstrong/ Richardson St	A	Tree roots problems. Flooding onto the footpath, takes a decent rain for flooding to occur.
19	Beach side of Beaconsfield Parade	A	Insufficient pits at low points. Bumpy road and water collects in low points.
20	St Kilda Rd/Union Rd	A	Inbound pipe is broken and collapsed causing street flooding. Outbound pipe is blocked by litter and debris, commonly blocked resulted in flooding in some properties.
21	Raleigh/St Kilda Rd	A	Problem with blockage due to tree roots. Flooding contained within the street.
22	Union/Queen	A	Mud/litter causing blockage. Flooding within the street, flooding occurring less than in the past.
23	Acland/Carlisle	A	McDonald's side of roundabout, people find it hard to walk across the road when it floods. Palm tree roots cause blockage.
24	Kingsley St	A	Street flooding, into property but not buildings.
25	Foam St	A	Thick reeds in MW waterway (Elwood Canal) contribute to blockage risk at drainage pipe outlets.
26	Elwood Canal	B	Flooding at streets discharging into canal, flooding is irregular, one street floods in one storm but not in next storm. Dictated by tide, regular flooding not significant and the area is a flood zone.
27	Canterbury Rd	A	Flooding contained within street.
28	Stuart St	A	Stuart St pit blockage, problem beside the building in walkway. Has been identified to be fixed.

Table A2 – Flash flooding hotspots within the Municipality.

## Tidal Flooding and Storm Surges

Moderate to heavy rainfall, coupled with a high or incoming tide from Port Phillip Bay can exacerbate flooding within the municipality or create areas of flooding in and around the drainage network. Due to the proximity of the Municipality to Port Phillip Bay and its flat terrain, tidal flows from Port Phillip Bay may reduce the capacity of the stormwater drains to discharge runoff back into the bay, while extreme storm events can cause backflow to the point where water surcharges back above ground around the drainage pits and channels.

Table A3 below outlines some of the tidal flooding hotspots within the Municipality. For more information on these hotspots, see **Appendices C & F**.

Number	Location	Comment
1	Blessington/ Marine Parade	Sand – tidal. Underground car park flooded, severe flooding in road-over the footpath. Jan 31 2004 herald sun photo, significant flooding into buildings, cars were floating.
2	Gladstone Lane/Montague St	Tidal, frequently street flooding – lane always muddy looking. Cars can't park in lane and cars getting damaged and wet, flooding getting into buildings.
3	Johnston/ Munro	Heavy rain, water can't get into pipe. Internal building flooding as downpipes can't discharge into street drain. Occurs when high tide and high rainfall. Tidal – mud/debris pushed up pipe.
4	Post Office Place	Flooding of inside road lane, flooding usually contained in road.
5	Mills Street	Street car parks flooded.
6	Dickens St	Similar to Blessington/Marine, affected by tidal influence.
7	Elwood Canal	Flooding at streets discharging into canal, flooding is irregular, one street floods in one storm but not in next storm. Dictated by tide, regular flooding not significant and the area is a flood zone.

Table A3 – Tidal flooding hotspots within the Municipality.

## Description of Major Waterways and Drains

The City of Port Phillip lies adjacent to Port Phillip Bay with the majority of the drainage network flowing into the Bay to the south and west. The remaining drains flow north into the City of Melbourne where they connect up to the Yarra River. The predominant watercourse through the City of Port Phillip is Elwood Canal. The Elwood Canal is fed by the Elsternwick Main Drain which is in turn fed by Elster Creek. A schematic of the Elwood Canal/Elsternwick Main Drain/Elster Creek drainage network can be found in Appendix G. Other major drains within the municipality are outlined below in table A4.

Melbourne Water Drains & Waterways	Suburb/s	Melbourne Water Drains & Waterways	Suburb/s
Byron Street Main Drain	Elwood & Ripponlea	Johnson Street Main Drain	Port Melbourne & South Melbourne
Cowderoy Street Main Drain	Albert Park, Melbourne, St Kilda & St Kilda West	Port Melbourne Pump Station Outfall	Port Melbourne
Cruikshank Street Main Drain	Port Melbourne	Princes Street Main Drain	Port Melbourne
Elsternwick Main Drain	Elwood	Richardson Street Main Drain	Albert Park & Port Melbourne
Elwood Canal	Elwood	Rosny Street Main Drain	Port Melbourne
Elwood Diversion Drain	Elwood	Shakespeare Grove Main Drain	Balaclava, St Kilda & St Kilda East
Esplanade West Main Drain	Port Melbourne	St Kilda Town Hall Main Drain	St Kilda
Gittus Street Main Drain	Port Melbourne & South Melbourne	Union Street Main Drain	Melbourne
Hanna Street Main Drain	Melbourne & South Melbourne		

Table A4 – Melbourne Water Drains and Waterways within the City of Port Phillip

## Flood Mitigation Systems

The primary flood mitigation system within the City of Port Phillip is the Port Melbourne Pumping Station, details contained within Table A6 which help to protect residents in the Port Melbourne area by discharging stormwater from the drainage network to Port Phillip Bay. There are no formal Retarding Basins or Levees built within the City of Port Phillip. However, Elsternwick Park Retarding Basin, located along the Elsternwick Main Drain (Elwood Canal) in the City of Bayside has been designed to protect residents downstream of Elwood Canal in Elwood. The details for this retarding basin are outlined in Table A5. To view its location and connecting watery/drainage systems, see map B in **Appendix F**.

## Retarding Basins

Melbourne Water Retarding Basin	On Drain/ Waterway	Area	Storage Capacity	Spillway Crest Level	1% AEP Flood Level	Embankment Crest Level	ANCOLD Hazard Rating	Houses In Flow Path (dam breach)	Melway Reference
Elsternwick Park (Bayside)	Elster Creek (Elsternwick Main Drain/Elwood Canal)	22.41ha	167ML	N/A	4.85m AHD	1.1m	High A	8	67 E4

Table A5 – Melbourne Water Retarding Basins within the City of Port Phillip

## Pumping Stations

Melbourne Water Pumping Station	On Drain / Waterway	Location	No. of Pumps	Capacity	Consequence of Failure	Melway Reference
Port Melbourne	Esplanade West Main Drain	East side of Esplanade West approximately 50m north of Rouse St, Port Melbourne	4	7,000 L/s	Major local flooding in Port Melbourne	2J E7

Table A6 – Melbourne Water Pumping Stations within the City of Port Phillip

## Sewer Infrastructure

Sewerage Infrastructure of note during a severe flood event located within the City of Port Phillip is contained within the following table. To view their locations, view mapping in **Appendix F**.

## Sewer Emergency Relief Points

On Drain / Waterway	Location	Melway Reference
Rosny Street Drain	Howe Parade at Rosny Street, Port Melbourne	56 J2
Princes Street Drain	South side of Graham Street near Princes Street, Port Melbourne	2J C5
McGregor Street Main Drain	Corner of McGregor Street & Patterson Street, St Kilda West	2N E1
Byron Street Drain	Corner of Byron Street & Mitford Street, Elwood	67 C2

Table A7 – Sewer Emergency Relief Structures within the City of Port Phillip

## Flood Warning Systems

Around the City of Port Phillip, Melbourne Water has six hydrographic monitoring sites along the two major waterways around the Municipality. These are outlined in the table below. These gauges can be monitored online through Melbourne Water at: <http://www.melbournewater.com.au/waterdata/rainfallandriverleveldata/Pages/Rainfall-and-river-level-new.aspx> or through the Bureau of Meteorology at: [http://www.bom.gov.au/cgi-bin/wrap\\_fwo.pl?IDV60201.html](http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDV60201.html). To view their locations, see mapping in **Appendix F**.

Melbourne Water Hydrographic Monitoring Station	Station No.	Location	Stream Level	Rain Gauge	Tide Level Gauge	Melway Reference
Byron Street M.D. Elwood	229726A	Byron Street, Elwood at Moore Street	✓			67 D1
Caulfield North	586194	Caulfield Park, Balaclava Road, Caulfield North		✓		59 C12
Caulfield South	586115	341 North Road, Caulfield South		✓		68 B8
Docklands	586100	Near Jim Stynes Bridge, north bank of Yarra River, Docklands		✓		32 D10
Elster Creek, Elsternwick	229660A	East side of the drain, Head Street, Elsternwick	✓	✓		67 F6
Elster Creek, Elwood	229725A	Foam Street, Elwood	✓			67 D3
Glen Eira Rd M.D.	229727A	Caulfield Grammar, Glen Eira Road, Elsternwick	✓			67 G1
St Kilda Marina	229670A	St Kilda Marina, Marine Pde, St Kilda		✓	✓	57 K12
Yarra River at Spencer Street, Southbank	229663A	Yarra Promenade at Crown Entertainment Complex, Southbank			✓	43 F10

Table A8– Hydrographic Monitoring Stations around the City of Port Phillip

There is currently one Melbourne Water flood warning gauge on the Yarra River that could be used to assist with public safety. This is at Southbank. This gauge with flood class levels established is outlined in the table below.

Hydrographic Monitoring Station	River / Creek Flood Class Level		
	Minor	Moderate	Major

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Yarra River at Spencer Street, Southbank	1.1m	1.3m	1.6m
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Table A9 – Hydrographic Monitoring Stations with Established Flood Class Levels

At these sites, the Bureau of Meteorology (the Bureau) in consultation with Melbourne Water will issue flood warnings if levels reach those classified above. This warning will be placed on the Bureau's website (<http://www.bom.gov.au/vic/warnings/index.shtml>). While the City of Port Phillip monitors these warnings in times of high rainfall, there are no specific guidelines to advise how these situations should be responded to.

## Historic Floods

Significant floods to have occurred within the City of Port Phillip are as follows in the tables below. Table A10 highlights flash flooding events to have occurred along the Elwood Canal in Elwood, whereas Table A11 details storm surge events to have affected Port Phillip Bay and the lower reaches of the Yarra River and surrounds.

Flash Flood Event	Elster Creek Elsternwick (229660A) Creek Level
Normal Water Level	0.1m
Minor	-
Moderate	-
Major	-
1 <sup>st</sup> December 1934	2.23m
1949	2.16m
15 <sup>th</sup> July 1952	2.69m
4 <sup>th</sup> November 1957	<b>3.32m</b>
14 <sup>th</sup> July 1963	2.77m
22 <sup>nd</sup> November 1988	2.25m
23 <sup>rd</sup> January 1991	2.54m
27 <sup>th</sup> January 1993	2.43m
22 <sup>nd</sup> February 1993	2.18m
2 <sup>nd</sup> November 1993	2.12m
17 <sup>th</sup> November 1993	2.27m
11 <sup>th</sup> December 1993	2.22m
27 <sup>th</sup> December 1993	2.38m
5 <sup>th</sup> January 1995	2.22m
1 <sup>st</sup> January 1996	2.34m
5 <sup>th</sup> April 2000	2.29m
22 <sup>nd</sup> December 2000	2.28m
3 <sup>rd</sup> December 2003	2.22m
30 <sup>th</sup> January 2004	2.54m
25 <sup>th</sup> February 2006	2.31m
22 <sup>nd</sup> December 2007	2.16m
20 <sup>th</sup> October 2009	2.14m
6 <sup>th</sup> March 2010	2.21m
4 <sup>th</sup> February 2011	2.94m
9 <sup>th</sup> November 2011	2.15m
26 <sup>th</sup> November 2011	2.35m
25 <sup>th</sup> May 2012	2.00m
24 <sup>th</sup> June 2014	1.15m
29 <sup>th</sup> December 2016	2.80m
5 <sup>th</sup> February 2017	2.22m
19 <sup>th</sup> December 2017	2.33m

Table A10 – Historical Floods along Elwood Canal

Storm Surge Event (Southbank impacted by Riverine Flows)	Port Phillip Bay St Kilda (229670A) Bay Level	Yarra River Southbank (229663A) River Level
Normal Tide Level	-0.4m to 0.2m	0.3m to 0.9m
Minor	-	1.1m
Moderate	-	1.3m
Major	-	1.6m
13 <sup>th</sup> July 1891	-	<b>2.24m</b>
1 <sup>st</sup> December 1934	-	1.61m
29 <sup>th</sup> June 1980	1.09m	1.15m
16 <sup>th</sup> October 1984	1.18m	1.17m
25 <sup>th</sup> July 1988	1.00m	1.18m
27 <sup>th</sup> June 1990	1.02m	1.27m
15 <sup>th</sup> August 1991	1.03m	1.14m
11 <sup>th</sup> September 1991	1.03m	1.28m
8 <sup>th</sup> September 1993	1.19m	0.48m
28 <sup>th</sup> April 1994	0.93m	1.10m
27 <sup>th</sup> May 1994	1.21m	1.20m
6 <sup>th</sup> November 1994	1.27m	1.24m
7 <sup>th</sup> November 1994	<b>1.28m</b>	1.36m
10 <sup>th</sup> February 1996	1.15m	1.10m
15 <sup>th</sup> May 1999	1.00m	1.21m
28 <sup>th</sup> May 2000	0.99m	1.11m
25 <sup>th</sup> July 2000	0.98m	1.11m
11 <sup>th</sup> November 2001	0.36m	1.22m
6 <sup>th</sup> June 2003	0.94m	1.14m
19 <sup>th</sup> June 2004	1.12m	1.31m
3 <sup>rd</sup> February 2005	0.97m	1.37m
2 <sup>nd</sup> July 2008	1.06m	1.10m
26 <sup>th</sup> April 2009	1.19m	1.09m
25 <sup>th</sup> August 2009	0.94m	1.14m
12 <sup>th</sup> August 2010	0.88m	1.24m
5 <sup>th</sup> July 2011	1.11m	1.22m
23 <sup>rd</sup> March 2012	1.00m	1.16m
9 <sup>th</sup> April 2012	0.99m	1.10m
5 <sup>th</sup> January 2014	0.87m	1.17m
24 <sup>th</sup> June 2014	<b>1.28m</b>	1.25m
1 <sup>st</sup> August 2014	1.09m	1.16m
23 <sup>rd</sup> June 2016	0.89m	1.20m
13 <sup>th</sup> July 2016	1.05m	1.14m
25 <sup>th</sup> July 2016	0.94m	1.13m
29 <sup>th</sup> October 2017	0.88m	1.15m

Table A11 – Historical Storm Surges on Port Phillip Bay at St Kilda and the lower Yarra at Southbank

## March 6<sup>th</sup> 2010 Storm

Rain Gauge Location	Rainfall Total	Rainfall Duration	Highest Intensity / Duration	Equivalent ARI Amount
Docklands (586100)	52mm	2 hours	35mm in 10mins	> 100 year ARI
Elwood Canal (229660)	22mm	2 hours	16mm in 30mins	3 year ARI

Table A12 – March 6<sup>th</sup>, 2010 Flash Flood & Storm Details

## February 5<sup>th</sup> 2011 Flood

Rain Gauge Location	Rainfall Total	Rainfall Duration	Time to Flood (5yr ARI Level)	Time to Flood Peak (100yr ARI Level)	Flood Duration at Gauge
Elwood Canal (229660)	105.6mm	3 hours	35 mins	100 mins	3 hours

Table A13 – February 5<sup>th</sup>, 2011 Flood Event Details

Note: Time to Flood & Time to Flood Peak ranges from Rainfall first occurring. Flood Duration ranges from initial canal level rise to canal returning to bank full. Floodwaters may have persisted outside of this period where ponding occurred.

## December 29<sup>th</sup> 2016 Flood

Rain Gauge Location	Rainfall Total	Rainfall Duration	Time to Flood (5yr ARI Level)	Time to Flood Peak (10yr ARI Level)	Flood Duration at Gauge
Elwood Canal (229660)	46mm	1 hour	20 mins	40 mins	50 mins

Table A14 – February 5<sup>th</sup>, 2011 Flood Event Details

## Dam Failure

Flooding resulting from failure of the following dams is likely to cause significant structural and community damage within the City of Port Phillip. See Dam Failure in Section 3 of this plan for more information. Note that if the storage capacity is reached and water flows over the spillway, this is not to be referred to as a flow release or a storage breach or failure.

Melbourne Water Dam	Location	Owner	Dam Capacity	Full Supply Level	Melway Reference
Sugarloaf Reservoir	Christmas Hills	Melbourne Water	93,411ML	178.00m AHD	273 B3-J8
Upper Yarra Reservoir	Reefton	Melbourne Water	200,051ML	366.53m AHD	VicWay X912 U2

Table A15 – Details of Reservoirs that pose a risk to the City of Port Phillip from failure

## APPENDIX B - TYPICAL RAIN TOTALS OVER TIME

In using the information contained in this Appendix, consideration needs to be given to the time to flood peak. A flood on a 'dry' waterway will generally travel more slowly than a flood on a 'wet' waterway (eg. The first flood after a dry period will travel more slowly than the second flood in a series of floods). Hence, recent flood history, soil moisture and forecast weather conditions all need to be considered when using the following information to direct flood response activities.

Flooding will likely start some time ahead of the time indicated by the following travel times – these are the time between the flood peaks at respective sites.

Note: Rainfall Totals over a Period are a very rough method of estimating flood events and have been used due to the single water level gauge present on this catchment. This should be used as a guide only.

### Typical Rain Totals over Period

Rain From (gauge)	Flood Peak at (gauge)	Typical Rain Totals Over Time	Likely Flood Level
<b>ELWOOD CANAL</b>			
Caulfield South or Elsternwick	Elsternwick	Between 1.7mm to 6mm over 10mins; 9mm to 17mm over 30mins; 10mm to 22mm over 1 hour; or 21mm to 40mm over 2 hours	50% AEP (2 year ARI) flood
		Between 3.5mm to 8mm over 10mins; 11mm to 24mm over 30mins; 22mm to 48mm over 1 hour; or 44mm to 96mm over 2 hours	20% AEP (5 year ARI) flood
		8mm or more over 10mins; 24mm or more over 30mins; 45mm or more over 1 hour; 90mm or more over 2 hours	10% AEP (10 year ARI) flood

Table B1 – Typical Rain Totals over Period for Elwood Canal

## Historical Time to Flood Peak

Flood Event	Rain From (gauge)	Flood Peak at (gauge)	Rain Total to Flood Peak	Time to Flood Peak (once 5mm fallen)	Flood Event
<b>ELWOOD CANAL</b>					<b>Elsternwick</b>
22 <sup>nd</sup> November 1988	Caulfield South	Elsternwick	40mm	2 hours	50% AEP
23 <sup>rd</sup> January 1991	Caulfield South	Elsternwick	46mm	2 hours	20% AEP
27 <sup>th</sup> January 1993	Caulfield South	Elsternwick	32mm	40 minutes	20% AEP
22 <sup>nd</sup> February 1993	Caulfield South	Elsternwick	36mm	3 hours, 20 minutes	50% AEP
2 <sup>nd</sup> November 1993	Caulfield South	Elsternwick	33mm	3 hours, 10 minutes	50% AEP
17 <sup>th</sup> November 1993	Elsternwick	Elsternwick	28mm	40 minutes	50% AEP
11 <sup>th</sup> December 1993	Caulfield South	Elsternwick	22mm	40 minutes	50% AEP
27 <sup>th</sup> December 1993	Caulfield South	Elsternwick	48mm	Double Peak (3 hours 30 minutes with a 1 hour 50 minute rain break then 2 hours, 50 minutes)	20% AEP
5 <sup>th</sup> January 1995	Caulfield South	Elsternwick	34mm	3 hours	50% AEP
1 <sup>st</sup> January 1996	Caulfield South	Elsternwick	22mm	Double Peak (40 minutes with a 4 hour rain break then 1 hour)	20% AEP
5 <sup>th</sup> April 2000	Caulfield South	Elsternwick	25mm	1 hour, 10 minutes	50% AEP
22 <sup>nd</sup> December 2000	Caulfield South	Elsternwick	24mm	1 hour, 20 minutes	50% AEP
3 <sup>rd</sup> December 2003	Caulfield South	Elsternwick	18mm	50 minutes	50% AEP
30 <sup>th</sup> January 2004	Caulfield South	Elsternwick	44mm	2 hours	20% AEP
25 <sup>th</sup> February 2006	Caulfield South	Elsternwick	19mm	40 minutes	20% AEP
4 <sup>th</sup> February 2011	Elsternwick	Elsternwick	98mm	1 hour, 40 minutes	10% AEP
9 <sup>th</sup> November 2011	Elsternwick	Elsternwick	13mm	30 minutes	50% AEP
26 <sup>th</sup> November 2011	Elsternwick	Elsternwick	24mm	40 minutes	20% AEP
29 <sup>th</sup> December 2016	Elsternwick	Elsternwick	46mm	40 minutes	10% AEP
19 <sup>th</sup> December 2017	Elsternwick	Elsternwick	20mm	20 minutes	30% AEP

Table B2 – Historical Time to Flood Peak along Elwood Canal

# APPENDIX C1 – ELWOOD CANAL & ST KILDA MARINA FLOOD EMERGENCY PLAN

## Overview of Flooding Consequences

This Summary table is generated from Victorian Government data. The State of Victoria does not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for error, loss or damage which may arise from reliance upon it. All persons access this information should make appropriate enquiries to assess the currency of the data.

### Summary of Consequences in a 1% AEP (100yr ARI) flood along Elster Creek / Elwood Canal

Property					
<b>Properties (Over-Floor Risk)</b>	<b>576</b>				
Residential	575				
Commercial	1				
Industrial	0				
Public Land	0				
Rural	0				
Community Infrastructure					
Health Facilities	0		Child Care / Kindergartens	1	Elwood Kindergarten
Care Facilities	0		Community Venues	0	
Retirement Villages	0		Places of Worship	0	
Schools / Colleges	2	Elwood Primary School; & Elwood College	Prisons	0	
Essential Infrastructure					
Major Roads	4	Barkly Street; Glen Huntly Road; Marine Parade; & St Kilda Street	Police Stations	0	
Major Rail	0		Government Buildings	0	
Bus Routes	1	246	Sewerage Facilities	1	Emergency Relief Point
Power Facility	0		Levees	0	
Comms Services	1	Elwood Telephone Exchange	Drainage Facilities	1	Elsternwick Park Retarding Basin (Bayside)
Emergency Services	0		Airports / Airfields	0	
Tourism / Recreation					
Sports Facilities	0		Caravan Parks	0	
Recreation Facilities	1	Paul Hester Walking Trail	Camping Grounds	0	
Government Boundaries					
Local Gov't Areas	1	Port Phillip	CMA	1	Port Phillip & Westernport
Adjacent LGAs	2	Glen Eira; & Bayside	CFA District	0	
SES Unit Area	1	Port Phillip	MFB District	1	Southern

Table C1.1 – Consequence Summary of 1% AEP flood along Elwood Canal

The Elwood Canal is a stormwater drainage system originally constructed in the 1890's<sup>1</sup> to carry stream and floodwaters from Elster Creek in the Cities of Glen Eira, Kingston and Bayside and the later constructed Elsternwick Main Drain through Elwood's reclaimed swampland to discharge into Port Phillip Bay on the St Kilda foreshore. The catchment area comprises an area of approximately 40 square kilometres with the creek and canal about 18km in length<sup>2</sup>. The land use of the catchment is predominantly residential (78%) with 7% public space, 7% commercial, 4% roads & 4% industrial<sup>2</sup>.

Elster Creek/Elwood Canal flows east to west through the Elsternwick Park Retarding Basin before entering the City of Port Phillip. A diversion drain connects to the Elwood Canal just east of Elsternwick Park to divert stormwater away from the Elwood Community directly to Port Phillip Bay.

The Elwood Canal catchment is susceptible to flash flooding with most consequences occurring at or above moderate flood level. Glen Huntly Road is likely to be overtopped in a 20% AEP event while Mitford Street has the highest concentration of residential property risks beginning at Moderate Flood Level.

The lower reaches of the Elwood Canal; from Port Phillip Bay to the Glen Huntly Road bridge as well as the area extending up Marine Parade to St Kilda Marina are at risk from Storm Surges. A recent storm surge in June 2014 caused flooding around Barkly Street & Meredith Street forcing the closure of local roads.

## Warning Times

Whilst there is a hydrographic/telemetry station (water level gauge) along the Elwood Canal / Elster Creek Catchment, Melbourne Water does not provide any flood warning service at this point, due to the generally short warning time available.

Melbourne Water Hydrographic Monitoring Station	Station No.	Location	Stream Level	Rain Gauge	Tide Level Gauge	Melway Reference
Byron Street M.D. Elwood	229726A	Byron Street, Elwood at Moore Street	✓			67 D1
Caulfield North	586194	Caulfield Park, Balaclava Road, Caulfield North		✓		59 C12
Caulfield South	586115	341 North Road, Caulfield South		✓		68 B8
Elster Creek, Elsternwick	229660A	East side of the drain, Head Street, Elsternwick	✓	✓		67 F6
Elster Creek, Elwood	229725A	Foam Street, Elwood	✓			67 D3
Glen Eira Rd M.D.	229727A	Caulfield Grammar, Glen Eira Road, Elsternwick	✓			67 G1
St Kilda Marina	229670A	St Kilda Marina, Marine Pde, St Kilda		✓	✓	57 K12

Table C1.2 – Hydrographic Monitoring Stations within the Elster Creek catchment

These Gauges may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges:

<sup>1</sup> Heritage Alliance, 'Elwood Canal Precinct', City of Port Phillip  
[www.portphillip.vic.gov.au/default/CommunityGovernanceDocuments/Elwood\\_Canal\\_Precinct.pdf](http://www.portphillip.vic.gov.au/default/CommunityGovernanceDocuments/Elwood_Canal_Precinct.pdf)

<sup>2</sup> EDAW, 'Elsternwick Park Sustainable Water Management Strategy', Bayside City Council  
[www.portphillip.vic.gov.au/default/4\\_-\\_Attach\\_1\\_-\\_Elsternwick\\_Park\\_Sustainable\\_Water\\_Management\\_Strategy.pdf](http://www.portphillip.vic.gov.au/default/4_-_Attach_1_-_Elsternwick_Park_Sustainable_Water_Management_Strategy.pdf)

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<http://www.melbournewater.com.au/waterdata/rainfallandriverleveldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

# Areas of Flood Risk



Figure C1.1 – Areas of flood risk around the Elwood Canal in the City of Port Phillip

## Properties at Flood Risk

Properties listed in the table below are at risk from flooding around Elwood. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Elwood Canal (Melbourne Water and GHD, March 2010) flood mapping and risk assessment program. Note that any multi-lot properties situated above ground floor likely impacted by isolation only. Information on above ground-floor properties is not available in this list.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	45-47 Addison Street	Elwood	Elwood Canal	Type
	✓	✓	51 Addison Street	Elwood	Elwood Canal	Type
		✓	53 Addison Street	Elwood	Elwood Canal	Type
		✓	57 Addison Street	Elwood	Elwood Canal	Type
		✓	73 Addison Street	Elwood	Elwood Canal	Type
		✓	75 Addison Street	Elwood	Elwood Canal	Type
		✓	22 Austin Avenue	Elwood	Elwood Canal	Type
		✓	2/27 Austin Avenue	Elwood	Elwood Canal	Type
		✓	29 Austin Avenue	Elwood	Elwood Canal	Type
		✓	31 Austin Avenue	Elwood	Elwood Canal	Type
		✓	32 Austin Avenue	Elwood	Elwood Canal	Type
		✓	322 Barkly Street	Elwood	Elwood Canal	Type
		✓	335 Barkly Street	Elwood	Elwood Canal	Type
		✓	337 Barkly Street	Elwood	Elwood Canal	Type
		✓	339 Barkly Street	Elwood	Elwood Canal	Type
		✓	341 Barkly Street	Elwood	Elwood Canal	Type
✓	✓	✓	345 Barkly Street	Elwood	Elwood Canal	Type
		✓	347 Barkly Street	Elwood	Elwood Canal	Type
		✓	353 Barkly Street	Elwood	Elwood Canal	Type
		✓	355 Barkly Street	Elwood	Elwood Canal	Type
		✓	357 Barkly Street	Elwood	Elwood Canal	Type
		✓	359 Barkly Street	Elwood	Elwood Canal	Type
		✓	361 Barkly Street	Elwood	Elwood Canal	Type
		✓	363 Barkly Street	Elwood	Elwood Canal	Type
		✓	365 Barkly Street	Elwood	Elwood Canal	Type
		✓	367 Barkly Street	Elwood	Elwood Canal	Type
		✓	369 Barkly Street	Elwood	Elwood Canal	Type
		✓	1/145A Brighton Road	Elwood	Byron Street M.D.	Type
		✓	2/145A Brighton Road	Elwood	Byron Street M.D.	Type
		✓	3/145A Brighton Road	Elwood	Byron Street M.D.	Type
		✓	4/145A Brighton Road	Elwood	Byron Street M.D.	Type
		✓	5/145A Brighton Road	Elwood	Byron Street M.D.	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	6/145A Brighton Road	Elwood	Byron Street M.D.	Type
		✓	151 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	153 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	1/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	2/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	3/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	4/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	5/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	6/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	7/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	8/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	9/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	10/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	11/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	12/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	13/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	14/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	15/157 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	165 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	165A Brighton Road	Elwood	Byron Street M.D.	Type
		✓	169 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	171 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	175 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	1/185 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	2/185 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	3/185 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	4/185 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	1/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	2/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	3/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	4/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	5/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	6/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	7/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	8/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	9/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	10/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	11/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	12/189 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	1/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	2/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	3/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	4/193 Brighton Road	Elwood	Byron Street M.D.	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	5/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	6/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	7/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	8/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	9/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	10/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	11/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	12/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	13/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	14/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	15/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	16/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	17/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	18/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	19/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	20/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	21/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	22/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	23/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	24/193 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	1/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	2/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	3/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	4/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	5/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	6/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	7/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	8/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	9/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	10/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	11/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	12/195 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	1/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	2/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	3/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	4/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	5/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	6/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	7/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	8/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	9/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	10/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	11/197 Brighton Road	Elwood	Byron Street M.D.	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	12/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	13/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	14/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	15/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	16/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	17/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	18/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	19/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	20/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	21/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	22/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	23/197 Brighton Road	Elwood	Byron Street M.D.	Type
		✓	24/197 Brighton Road	Elwood	Byron Street M.D.	Type
	✓	✓	5 Broadway	Elwood	Elwood Canal	Type
		✓	9 Broadway	Elwood	Elwood Canal	Type
	✓	✓	21 Broadway	Elwood	Elwood Canal	Type
		✓	23 Broadway	Elwood	Elwood Canal	Type
		✓	33 Broadway	Elwood	Elwood Canal	Type
		✓	35 Broadway	Elwood	Elwood Canal	Type
		✓	37 Broadway	Elwood	Elwood Canal	Type
		✓	39 Broadway	Elwood	Elwood Canal	Type
		✓	1/47 Broadway	Elwood	Elwood Canal	Type
		✓	2/47 Broadway	Elwood	Elwood Canal	Type
		✓	3/47 Broadway	Elwood	Elwood Canal	Type
		✓	4/47 Broadway	Elwood	Elwood Canal	Type
		✓	1/51 Byron Street	Elwood	Elwood Canal	Type
		✓	2/51 Byron Street	Elwood	Elwood Canal	Type
		✓	3/51 Byron Street	Elwood	Elwood Canal	Type
		✓	4/51 Byron Street	Elwood	Elwood Canal	Type
		✓	5/51 Byron Street	Elwood	Elwood Canal	Type
		✓	6/51 Byron Street	Elwood	Elwood Canal	Type
		✓	7/51 Byron Street	Elwood	Elwood Canal	Type
		✓	8/51 Byron Street	Elwood	Elwood Canal	Type
		✓	59 Byron Street	Elwood	Elwood Canal	Type
	✓	✓	63 Byron Street	Elwood	Elwood Canal	Type
	✓	✓	65 Byron Street	Elwood	Elwood Canal	Type
		✓	70 Byron Street	Elwood	Elwood Canal	Type
		✓	72 Byron Street	Elwood	Elwood Canal	Type
		✓	81 Byron Street	Elwood	Elwood Canal	Type
		✓	2 Cyril Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	1/3 Cyril Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	2/3 Cyril Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	3/3 Cyril Street	Elwood	Byron Street M.D.	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	4/3 Cyril Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	5 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	1/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	2/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	3/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	4/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	5/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	6/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	7/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	8/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	9/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	10/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	11/6-8 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	12 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	15 Cyril Street	Elwood	Byron Street M.D.	Type
		✓	3 Foam Street	Elwood	Elster Creek	Type
		✓	5 Foam Street	Elwood	Elster Creek	Type
		✓	7 Foam Street	Elwood	Elster Creek	Type
		✓	1/7 Foam Street	Elwood	Elster Creek	Type
		✓	8 Foam Street	Elwood	Elster Creek	Type
		✓	1/9 Foam Street	Elwood	Elster Creek	Type
		✓	2/9 Foam Street	Elwood	Elster Creek	Type
		✓	3/9 Foam Street	Elwood	Elster Creek	Type
		✓	4/9 Foam Street	Elwood	Elster Creek	Type
		✓	5/9 Foam Street	Elwood	Elster Creek	Type
		✓	6/9 Foam Street	Elwood	Elster Creek	Type
		✓	7/9 Foam Street	Elwood	Elster Creek	Type
		✓	8/9 Foam Street	Elwood	Elster Creek	Type
		✓	9/9 Foam Street	Elwood	Elster Creek	Type
		✓	10 Foam Street	Elwood	Elster Creek	Type
		✓	11A Foam Street	Elwood	Elster Creek	Type
		✓	11 Foam Street	Elwood	Elster Creek	Type
		✓	13 Foam Street	Elwood	Elster Creek	Type
		✓	14 Foam Street	Elwood	Elster Creek	Type
		✓	16 Foam Street	Elwood	Elster Creek	Type
		✓	17 Foam Street	Elwood	Elster Creek	Type
		✓	18 Foam Street	Elwood	Elster Creek	Type
	✓	✓	19 Foam Street	Elwood	Elster Creek	Type
		✓	21 Foam Street	Elwood	Elster Creek	Type
		✓	1/23 Foam Street	Elwood	Elster Creek	Type
		✓	2/23 Foam Street	Elwood	Elster Creek	Type
		✓	3/23 Foam Street	Elwood	Elster Creek	Type
		✓	4/23 Foam Street	Elwood	Elster Creek	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	5/23 Foam Street	Elwood	Elster Creek	Type
		✓	6/23 Foam Street	Elwood	Elster Creek	Type
		✓	24 Foam Street	Elwood	Elster Creek	Type
	✓	✓	1/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	2/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	3/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	4/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	5/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	6/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	7/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	8/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	9/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	10/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	11/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	12/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	13/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	14/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	15/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	16/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	17/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	18/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	19/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	20/25 Foam Street	Elwood	Elster Creek	Type
	✓	✓	21/25 Foam Street	Elwood	Elster Creek	Type
		✓	1/44 Glen Huntly Road	Elwood	Elwood Canal	Type
		✓	2/44 Glen Huntly Road	Elwood	Elwood Canal	Type
		✓	3/44 Glen Huntly Road	Elwood	Elwood Canal	Type
		✓	68 Glen Huntly Road	Elwood	Elwood Canal	Type
		✓	1/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	2/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	3/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	4/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	5/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	6/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	7/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	8/98 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	106 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	108 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	110 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	112 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	114 Glen Huntly Road	Elwood	Elster Creek	Type
	✓	✓	116 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	117 Glen Huntly Road	Elwood	Elwood Canal	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	120 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	1/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	2/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	3/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	4/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	5/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	6/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	7/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	8/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	9/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	10/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	11/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	12/126 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	1/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	2/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	3/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	4/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	5/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	6/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	7/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	8/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	9/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	10/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	11/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	12/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	14/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	15/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	16/130 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	132 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	134 Glen Huntly Road	Elwood	Elster Creek	Type
		✓	2 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	4 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	6 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	8 Goldsmith Street	Elwood	Elwood Canal	Type
	✓	✓	10 Goldsmith Street	Elwood	Elwood Canal	Type
	✓	✓	12-14 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	14 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	16 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	18 Goldsmith Street	Elwood	Elwood Canal	Type
	✓	✓	20 Goldsmith Street	Elwood	Elwood Canal	Type
	✓	✓	22 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	24 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	26 Goldsmith Street	Elwood	Elwood Canal	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential		Commercial		Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	29 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	31 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	33 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	35 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	36 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	38 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	40 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	42 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	44 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	46 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	48 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	50 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	51-55 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	57 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	58 Goldsmith Street	Elwood	Elwood Canal	Type
		✓	59 Goldsmith Street	Elwood	Elwood Canal	Type
	✓	✓	3/25 Gordon Avenue	Elwood	Elwood Canal	Type
	✓	✓	4/25 Gordon Avenue	Elwood	Elwood Canal	Type
	✓	✓	5/25 Gordon Avenue	Elwood	Elwood Canal	Type
	✓	✓	1/27 Gordon Avenue	Elwood	Elwood Canal	Type
	✓	✓	2/27 Gordon Avenue	Elwood	Elwood Canal	Type
		✓	1/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	2/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	3/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	4/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	5/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	6/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	7/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	8/9 Greig Court	Elwood	Byron Street M.D.	Type
		✓	29A John Street	Elwood	Byron Street M.D.	Type
		✓	29 John Street	Elwood	Byron Street M.D.	Type
	✓	✓	32 John Street	Elwood	Elwood Canal	Type
	✓	✓	34 John Street	Elwood	Elwood Canal	Type
	✓	✓	36 John Street	Elwood	Elwood Canal	Type
	✓	✓	38 John Street	Elwood	Elwood Canal	Type
	✓	✓	39 John Street	Elwood	Elwood Canal	Type
	✓	✓	40 John Street	Elwood	Elwood Canal	Type
	✓	✓	41 John Street	Elwood	Elwood Canal	Type
	✓	✓	42 John Street	Elwood	Elwood Canal	Type
		✓	43 John Street	Elwood	Elwood Canal	Type
	✓	✓	44 John Street	Elwood	Elwood Canal	Type
		✓	46 John Street	Elwood	Elwood Canal	Type
		✓	48 John Street	Elwood	Elwood Canal	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	1 Lawson Street	Elwood	Elwood Canal	Type
		✓	3 Lawson Street	Elwood	Elwood Canal	Type
	✓	✓	6 Meredith Street	Elwood	Elwood Canal	Type
		✓	8 Meredith Street	Elwood	Elwood Canal	Type
✓	✓	✓	10 Meredith Street	Elwood	Elwood Canal	Type
		✓	11 Meredith Street	Elwood	Elwood Canal	Type
		✓	20 Meredith Street	Elwood	Elwood Canal	Type
	✓	✓	38 Meredith Street	Elwood	Elwood Canal	Type
		✓	40 Meredith Street	Elwood	Elwood Canal	Type
		✓	42 Meredith Street	Elwood	Elwood Canal	Type
		✓	86 Mitford Street	Elwood	Elwood Canal	Type
		✓	88 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	90 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	1/92 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	2/92 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	3/92 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	4/92 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	5/92 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	6/92 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	7/92 Mitford Street	Elwood	Elwood Canal	Type
		✓	96 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	98 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	100 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	104 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	106 Mitford Street	Elwood	Elwood Canal	Type
		✓	107 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	108 Mitford Street	Elwood	Elwood Canal	Type
		✓	109 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	110 Mitford Street	Elwood	Elwood Canal	Type
		✓	111 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	112 Mitford Street	Elwood	Elwood Canal	Type
		✓	113 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	114 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	1/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	2/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	3/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	4/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	5/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	6/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	7/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	8/115 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	116 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	1/120 Mitford Street	Elwood	Elwood Canal	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	2/120 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	3/120 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	4/120 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	124 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	126 Mitford Street	Elwood	Elwood Canal	Type
		✓	127 Mitford Street	Elwood	Elwood Canal	Type
	✓	✓	129 Mitford Street	Elwood	Elwood Canal	Type
	✓	✓	129A Mitford Street	Elwood	Elwood Canal	Type
	✓	✓	144 Mitford Street	Elwood	Elwood Canal	Type
	✓	✓	146 Mitford Street	Elwood	Elwood Canal	Type
		✓	148 Mitford Street	Elwood	Elwood Canal	Type
		✓	150 Mitford Street	Elwood	Elwood Canal	Type
		✓	152 Mitford Street	Elwood	Elwood Canal	Type
		✓	154 Mitford Street	Elwood	Elwood Canal	Type
✓	✓	✓	4 Moore Street	Elwood	Byron Street M.D.	Type
	✓	✓	6 Moore Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	13 Moore Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	16 Moore Street	Elwood	Byron Street M.D.	Type
		✓	26 Moore Street	Elwood	Byron Street M.D.	Type
		✓	28 Moore Street	Elwood	Byron Street M.D.	Type
		✓	1/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	2/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	3/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	4/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	5/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	6/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	7/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	8/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	9/9 Robert Street	Elwood	Byron Street M.D.	Type
		✓	29 Rothesay Avenue	Elwood	Elwood Canal	Type
		✓	32 Rothesay Avenue	Elwood	Elwood Canal	Type
		✓	33 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	34 Rothesay Avenue	Elwood	Elwood Canal	Type
		✓	35 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	36 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	38 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	1/40 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	2/40 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	3/40 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	4/40 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	42 Rothesay Avenue	Elwood	Elwood Canal	Type
	✓	✓	44 Rothesay Avenue	Elwood	Elwood Canal	Type
✓	✓	✓	46 Rothesay Avenue	Elwood	Elwood Canal	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential		Commercial		Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
	✓	✓	1/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	2/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	3/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	4/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	5/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	6/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	7/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	8/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	9/46-48 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	10/46-48 Ruskin Street	Elwood	Elwood Canal	Type
		✓	1/49 Ruskin Street	Elwood	Elwood Canal	Type
		✓	2/49 Ruskin Street	Elwood	Elwood Canal	Type
		✓	3/49 Ruskin Street	Elwood	Elwood Canal	Type
		✓	4/49 Ruskin Street	Elwood	Elwood Canal	Type
		✓	5/49 Ruskin Street	Elwood	Elwood Canal	Type
		✓	6/49 Ruskin Street	Elwood	Elwood Canal	Type
		✓	7/49 Ruskin Street	Elwood	Elwood Canal	Type
		✓	59 Ruskin Street	Elwood	Elwood Canal	Type
		✓	61 Ruskin Street	Elwood	Elwood Canal	Type
		✓	63 Ruskin Street	Elwood	Elwood Canal	Type
		✓	79 Ruskin Street	Elwood	Elwood Canal	Type
		✓	83 Ruskin Street	Elwood	Elwood Canal	Type
	✓	✓	56 Scott Street	Elwood	Elwood Canal	Type
		✓	58 Scott Street	Elwood	Elwood Canal	Type
		✓	64 Scott Street	Elwood	Elwood Canal	Type
✓	✓	✓	64A Scott Street	Elwood	Elwood Canal	Type
		✓	2 Shelley Street	Elwood	Elwood Canal	Type
		✓	4 Shelley Street	Elwood	Elwood Canal	Type
		✓	4A Shelley Street	Elwood	Elwood Canal	Type
		✓	1/12 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/12 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/12 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/12 Shelley Street	Elwood	Elwood Canal	Type
		✓	5/12 Shelley Street	Elwood	Elwood Canal	Type
		✓	6/12 Shelley Street	Elwood	Elwood Canal	Type
		✓	1/14 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/14 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/14 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/14 Shelley Street	Elwood	Elwood Canal	Type
		✓	5/14 Shelley Street	Elwood	Elwood Canal	Type
		✓	6/14 Shelley Street	Elwood	Elwood Canal	Type
		✓	7/14 Shelley Street	Elwood	Elwood Canal	Type
		✓	8/14 Shelley Street	Elwood	Elwood Canal	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential		Commercial		Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	1/18 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/18 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/18 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/18 Shelley Street	Elwood	Elwood Canal	Type
		✓	1/22 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/22 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/22 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/22 Shelley Street	Elwood	Elwood Canal	Type
		✓	5/22 Shelley Street	Elwood	Elwood Canal	Type
		✓	6/22 Shelley Street	Elwood	Elwood Canal	Type
		✓	1/24 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/24 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/24 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/24 Shelley Street	Elwood	Elwood Canal	Type
		✓	5/24 Shelley Street	Elwood	Elwood Canal	Type
		✓	6/24 Shelley Street	Elwood	Elwood Canal	Type
		✓	1/26 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/26 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/26 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/26 Shelley Street	Elwood	Elwood Canal	Type
		✓	33 Shelley Street	Elwood	Elwood Canal	Type
		✓	37 Shelley Street	Elwood	Elwood Canal	Type
		✓	1/39 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/39 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/39 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/39 Shelley Street	Elwood	Elwood Canal	Type
		✓	5/39 Shelley Street	Elwood	Elwood Canal	Type
		✓	1/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	2/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	3/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	4/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	5/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	6/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	7/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	8/41 Shelley Street	Elwood	Elwood Canal	Type
		✓	55 Shelley Street	Elwood	Elwood Canal	Type
	✓	✓	1/489 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	2/489 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	1/491 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	2/491 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	3/491 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	4/491 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	5/491 St Kilda Street	Elwood	Elster Creek	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
	✓	✓	6/491 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	7/491 St Kilda Street	Elwood	Elster Creek	Type
		✓	1/493-495 St Kilda Street	Elwood	Elster Creek	Type
		✓	2/493-495 St Kilda Street	Elwood	Elster Creek	Type
		✓	3/493-495 St Kilda Street	Elwood	Elster Creek	Type
		✓	4/493-495 St Kilda Street	Elwood	Elster Creek	Type
		✓	5/493-495 St Kilda Street	Elwood	Elster Creek	Type
		✓	6/493-495 St Kilda Street	Elwood	Elster Creek	Type
		✓	7/493-495 St Kilda Street	Elwood	Elster Creek	Type
		✓	8/493-495 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	497 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	499 St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	501A St Kilda Street	Elwood	Elster Creek	Type
	✓	✓	501 St Kilda Street	Elwood	Elster Creek	Type
		✓	1/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	2/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	3/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	4/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	5/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	6/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	7/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	8/507 St Kilda Street	Elwood	Elster Creek	Type
		✓	1/513 St Kilda Street	Elwood	Elster Creek	Type
		✓	2/513 St Kilda Street	Elwood	Elster Creek	Type
		✓	1/515 St Kilda Street	Elwood	Elster Creek	Type
		✓	2/515 St Kilda Street	Elwood	Elster Creek	Type
		✓	3/515 St Kilda Street	Elwood	Elster Creek	Type
		✓	4/515 St Kilda Street	Elwood	Elster Creek	Type
		✓	5/515 St Kilda Street	Elwood	Elster Creek	Type
		✓	6/515 St Kilda Street	Elwood	Elster Creek	Type
✓	✓	✓	1/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	2/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	3/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	4/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	5/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	6/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	7/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	8/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	9/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	10/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	11/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	12/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	13/94 Tennyson Street	Elwood	Byron Street M.D.	Type

Properties at risk from Flooding along Elster Creek / Elwood Canal in Elwood						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	14/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	15/94 Tennyson Street	Elwood	Byron Street M.D.	Type
✓	✓	✓	16/94 Tennyson Street	Elwood	Byron Street M.D.	Type
		✓	104 Tennyson Street	Elwood	Byron Street M.D.	Type
	✓	✓	1/106 Tennyson Street	Elwood	Byron Street M.D.	Type
	✓	✓	2/106 Tennyson Street	Elwood	Byron Street M.D.	Type
		✓	108 Tennyson Street	Elwood	Byron Street M.D.	Type
		✓	1 Tide Street	Elwood	Elster Creek	Type
		✓	3 Wave Street	Elwood	Elster Creek	Type
		✓	4 Wave Street	Elwood	Elster Creek	Type
		✓	5 Wave Street	Elwood	Elster Creek	Type
	✓	✓	7 Wave Street	Elwood	Elster Creek	Type
		✓	8 Wave Street	Elwood	Elster Creek	Type
	✓	✓	9 Wave Street	Elwood	Elster Creek	Type
		✓	10 Wave Street	Elwood	Elster Creek	Type
		✓	11 Wave Street	Elwood	Elster Creek	Type
		✓	13 Wave Street	Elwood	Elster Creek	Type
		✓	15 Wave Street	Elwood	Elster Creek	Type
		✓	17 Wave Street	Elwood	Elster Creek	Type
		✓	19 Wave Street	Elwood	Elster Creek	Type
		✓	1/22 Wave Street	Elwood	Elster Creek	Type
		✓	2/22 Wave Street	Elwood	Elster Creek	Type
		✓	3/22 Wave Street	Elwood	Elster Creek	Type
		✓	4/22 Wave Street	Elwood	Elster Creek	Type
		✓	5/22 Wave Street	Elwood	Elster Creek	Type
		✓	32 Wave Street	Elwood	Elster Creek	Type
		✓	34 Wave Street	Elwood	Elster Creek	Type
		✓	38A Wave Street	Elwood	Elster Creek	Type
<b>Totals</b>						
<b>59</b>	<b>149</b>	<b>576</b>				

Table C1.3 – Properties at risk of flooding along Elster Creek / Elwood Canal in the City of Port Phillip

Properties listed in the table below are at risk from storm surge flooding in a 1% AEP Port Phillip Bay flood event. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Port Phillip Bay Sea Level (Cardno, 2015) flood mapping and risk assessment program.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding from Port Phillip Bay Storm Surge during a 1% AEP event in Elwood				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
51	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
53	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
57	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
75	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
322	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
335	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
337	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
339	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
341	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
345	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
347	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
353	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
355	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
357	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
359	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
261	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
363	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
365	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
367	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
369	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
10	Goldsmith Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
25	Gordon Avenue	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
1	Lawson Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
3	Lawson Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
6	Meredith Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
10	Meredith Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
20	Meredith Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
38	Meredith Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
42	Meredith Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
90	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
94	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
98	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
100	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
104	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
106	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
108	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge

Properties at risk from Flooding from Port Phillip Bay Storm Surge during a 1% AEP event in Elwood				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
110	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
112	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
114	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
116	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
120	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
124	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
126	Mitford Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
46	Rothesay Avenue	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
46	Ruskin Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
49	Ruskin Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
64A	Scott Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
51	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
53	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
57	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
75	Addison Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
322	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
335	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
337	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
339	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
341	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
345	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
347	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
353	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
355	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
357	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
359	Barkly Street	Elwood	Elwood Canal / Port Phillip Bay	Storm Surge
<b>Total</b>				
<b>47</b>				

Table C1.4 – Properties at risk of flooding along Port Phillip Bay coastline in Elwood

## Isolation

No major isolation risks exist for areas around Elwood & St Kilda Marina during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

## Essential Infrastructure

- The **Elwood Telephone Exchange** at 61 Tennyson Street, Elwood may experience property flooding or access issues during a 5% AEP (20yr ARI) flash flooding event.
- The **St Kilda Marina and the St Kilda Coastguard** (Victoria Flotilla 2) are likely impacted during a 1% AEP (100yr ARI) storm surge event.

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>. A map of Public Transport routes within the City

of Port Phillip is available via the website at:  
[https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/45\\_Port\\_Phillip\\_LAM.pdf](https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/45_Port_Phillip_LAM.pdf)

Apart from the roads outlined below, all other essential infrastructure and services areas around Elwood are expected to remain unaffected by flooding during a 1% AEP (100yr ARI) event.

## Road Closures

The following roads are subject to closure during flooding around Elwood & St Kilda Marina. Check the VicRoads website for more details: <http://alerts.vicroads.vic.gov.au/>

VicRoads Roads flooded in a 1% AEP (100yr ARI) Flash Flooding Event	
• Barkly Street, Elwood between Elwood Canal and Milton Street	
• Glen Huntly Road, Elwood between Ormond Road and St Kilda Street	
• Marine Parade, Elwood at Meredith Street	
• St Kilda Street, Elwood between Ormond Road and Glen Huntly Road	

Table C1.5 – VicRoads Possible Road Closures during a flooding event

Port Phillip City Council Roads flooded in a 1% AEP (100yr ARI) Flash Flooding Event		
<b>ELWOOD</b>	• Keats Street	• Scott Street
• Austin Avenue	• Lawson Street	• Shelley Street
• Byron Street	• Meredith Street	• Spray Street
• Foam Street	• Mitford Street	• Tide Street
• Goldsmith Street	• Poets Grove	• Wave Street
• John Street	• Rothesay Avenue	

Table C1.6 – Port Phillip City Council Possible Road Closures during a flooding event

## Flood Mitigation

### Retarding Basins

Melbourne Water Retarding Basin	On Drain/ Waterway	Area	Storage Capacity	Spillway Crest Level	Full Supply Level	Embankment Crest Level	ANCOLD Hazard Rating	Houses In Flow Path (dam breach)	Melway Reference
Elsternwick Park (Bayside)	Elster Creek (Elsternwick Main Drain/Elwood Canal)	22.41ha	167ML	N/A	4.85m AHD	1.1m	High A	8	67 E4

Table C1.7 – Melbourne Water Retarding Basins within the Elwood Canal catchment in the City of Port Phillip

No formal Pumping Stations or Levees exist around the Elwood Canal or Elsternwick Main Drain.

### Sewerage Infrastructure

Sewerage Infrastructure of note during a severe flood event located around the Elwood Canal and Elsternwick Main Drain is contained within the following table.

#### Sewer Emergency Relief Points

On Drain / Waterway	Location	Melway Reference
Byron Street Drain	Corner of Byron Street & Mitford Street, Elwood	67 C2

Table C1.8 – Sewer Emergency Relief Points in the Elwood Canal Catchment in the City of Port Phillip

### Command, Control and Coordination

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

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## **Flood Impacts & Operational Considerations (Intelligence Cards)**

The tables on the following pages provide a breakdown of the possible consequences of flooding along Elster Creek and Elwood Canal at various creek/canal heights and Port Phillip Bay at various tide heights. These tables are to be used only as a guide as no two floods at a location will have identical impacts.

Intelligence Cards have been included for the following locations:

- Elster Creek, Elsternwick
- Port Phillip Bay, St Kilda Marina

# FLOOD INTELLIGENCE CARD – ELSTERNWICK GAUGE, ELSTER CREEK (ELWOOD CANAL)

Version 3 – February 2019



Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.

This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

Note: The Elsternwick Gauge is a sloping gauge attached to one side of the dry weather channel. All heights quoted below are in vertical gauge height. Ground observers conducting a manual reading of water levels at this site need to use a conversion table to convert sloping gauge readings to vertical values.

LOCATION	East side of the drain, Head Street, Elsternwick
MELWAY REF:	67 F6
STREAM:	Elster Creek (Elwood Canal)
GAUGE NUMBER:	229660A
GAUGE ZERO:	1.854m AHD
GAUGE TYPE	Stream Level & Rain

MINOR:	2.1m (original flood class level) (No flood warning for site due to quick response catchment)
MODERATE:	2.3m (original flood class level) (No flood warning for site due to quick response catchment)
MAJOR	2.6m (original flood class level) (No flood warning for site due to quick response catchment)
LEVEE HEIGHT:	N/A
TELEMETRIC/MANUAL	Telemetric
HIGHEST RECORDED FLOOD:	3.32m (4 <sup>th</sup> November 1957)

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
2.1m	Original Minor Flood Class Level	<ul style="list-style-type: none"> <li>Note: This is the original minor flood class level for this site, no automatic flood warning is issued due to the quick response of this catchment</li> </ul>	
2.3m	Original Moderate Flood Class Level	<ul style="list-style-type: none"> <li>Note: This is the original minor flood class level for this site, no automatic flood warning is issued due to the quick response of this catchment</li> </ul> <p><b>Properties at Flood Risk (Over Floor)</b> Note that any multi-lot properties situated above ground floor likely impacted by isolation only. Information on above ground-floor properties is not available in this list.</p> <p><b>4 Properties in Total</b></p> <ul style="list-style-type: none"> <li>Units 1-4/120 Mitford Street, Elwood</li> </ul>	
2.5m	20% AEP (5yr ARI) Flood Level	<p><b>Properties at Flood Risk (Over Floor)</b> Note that any multi-lot properties situated above ground floor likely impacted by isolation only. Information on above ground-floor properties is not available in this list.</p> <p><b>55 New at Level; 59 Properties in Total</b></p> <ul style="list-style-type: none"> <li>345 Barkly Street, Elwood</li> <li>1/3, 2/3, 3/3, 4/3 &amp; 5 Cyril Street, Elwood</li> <li>10 Meredith Street, Elwood</li> <li>90, Units 1-7/92, 98, 100, 104, 106, 108, 110, 112, 114, Units 1-8/115, 116, Units 1-4/120, 124, &amp; 126 Mitford Street, Elwood</li> </ul>	VICSES will provide warnings as required based on the predications provided by BoM regarding flood levels and the risk of Flash Flooding. The Central Duty officer in conjunction with the Regional Agency Controller will maintain operational awareness and form an appropriate response arrangement to suit the level of incident

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>4, 13 &amp; 16 Moore Street, Elwood</li> <li>46 Rothesay Avenue, Elwood</li> <li>64A Scott Street, Elwood</li> <li>Units 1-16/94 Tennyson Street, Elwood</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>Paul Hester Walk along Elwood Canal may be flooded in parts</li> </ul> <p><b>Essential Infrastructure Impacted</b></p> <ul style="list-style-type: none"> <li>Sewer Emergency Relief Structure on the corner of Byron &amp; Mitford Streets, Elwood within flood waters</li> <li>Bus Route 246 along Glen Huntly Road</li> </ul> <p><b>Water Over Road (Above 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>Glen Huntly Road, Elwood at Mitford Street</li> <li>Mitford Street, Elwood between Byron Street and Rothesay Avenue</li> <li>John Street, Elwood</li> </ul>	
2.54m	30 <sup>th</sup> January 2004 Flood Level Peak	<p><b>Event Summary</b></p> <ul style="list-style-type: none"> <li>Significant flooding in Blessington Street and Marine Parades with buildings flooded over floor, underground car parks flooded with cars floating.</li> </ul>	
2.6m	Original Major Flood Class Level		
2.66m	10% AEP (10yr ARI) Flood Level	<p><b>Properties at Flood Risk (Over Floor)</b> Note that any multi-lot properties situated above ground floor likely impacted by isolation only. Information on above ground-floor properties is not available in this list.</p> <p><b>39 New at Level; 98 Properties in Total</b></p> <ul style="list-style-type: none"> <li>345 Barkly Street, Elwood</li> <li>63 &amp; 65 Byron Street, Elwood</li> <li>1/3, 2/3, 3/3, 4/3 &amp; 5 Cyril Street, Elwood</li> <li>10 Goldsmith Street, Elwood</li> <li>3/25, 4/25, 5/25, 1/27 &amp; 2/27 Gordon Avenue, Elwood</li> <li>39, 40, 42 &amp; 44 John Street, Elwood</li> <li>10 Meredith Street, Elwood</li> <li>90, Units 1-7/92, 98, 100, 104, 106, 108, 110, 112, 114, Units 1-8/115, 116, Units 1-4/120, 124, 126 &amp; 129 Mitford Street, Elwood</li> <li>4, 6, 13 &amp; 16 Moore Street, Elwood</li> <li>34, 42, 44 &amp; 46 Rothesay Avenue, Elwood</li> <li>Units 1-10/46-48 Ruskin Street, Elwood</li> <li>64A Scott Street, Elwood</li> <li>1/489, 2/489, Units 1-7/491 &amp; 497 St Kilda Street, Elwood</li> <li>Units 1-16/94, 1/106 &amp; 2/106 Tennyson Street, Elwood</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>Paul Hester Walk along Elwood Canal may be flooded in parts</li> </ul> <p><b>Essential Infrastructure Impacted</b></p>	<p>VICSES to respond as per request by request basis.</p> <p>South East Water to monitor possible contamination of flood waters</p>

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>Sewer Emergency Relief Structure on the corner of Byron &amp; Mitford Streets, Elwood within flood waters</li> </ul> <p><b>Water Over Road (Above 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>Foam Street, Elwood</li> <li>Glen Huntly Road, Elwood at Mitford Street</li> <li>Mitford Street, Elwood between Byron Street and Rothesay Avenue</li> <li>Rothesay Avenue, Elwood</li> <li>John Street, Elwood</li> <li>Keats Street, Elwood</li> </ul>	Council to provide road closure signage if required.
2.78m	5% AEP (20yr ARI) Flood Level	<p><b>Properties at Flood Risk (Over Floor)</b> Note that any multi-lot properties situated above ground floor likely impacted by isolation only. Information on above ground-floor properties is not available in this list.</p> <p><b>51 New at Level; 149 Properties in Total</b></p> <ul style="list-style-type: none"> <li>51 Addison Street, Elwood</li> <li>345 Barkly Street, Elwood</li> <li>5 &amp; 21 Broadway, Elwood</li> <li>63 &amp; 65 Byron Street, Elwood</li> <li>1/3, 2/3, 3/3, 4/3 &amp; 5 Cyril Street, Elwood</li> <li>19 &amp; Units 1-21/25 Foam Street, Elwood</li> <li>116 Glen Huntly Road, Elwood</li> <li>10, 12-14, 20 &amp; 22 Goldsmith Street, Elwood</li> <li>3/25, 4/25, 5/25, 1/27 &amp; 2/27 Gordon Avenue, Elwood</li> <li>32, 34, 36, 38, 39, 40, 41, 42 &amp; 44 John Street, Elwood</li> <li>6, 10 &amp; 38 Meredith Street, Elwood</li> <li>90, Units 1-7/92, 98, 100, 104, 106, 108, 110, 112, 114, Units 1-8/115, 116, Units 1-4/120, 124, 126, 129, 129A, 144 &amp; 146 Mitford Street, Elwood</li> <li>4, 6, 13 &amp; 16 Moore Street, Elwood</li> <li>34, 36, 38, 1/40, 2/40, 3/40, 4/40, 42, 44 &amp; 46 Rothesay Avenue, Elwood</li> <li>Units 1-10/46-48 Ruskin Street, Elwood</li> <li>56 &amp; 64A Scott Street, Elwood</li> <li>1/489, 2/489, Units 1-7/491, 497 &amp; 499, 501 &amp; 501A St Kilda Street, Elwood</li> <li>Units 1-16/94, 1/106 &amp; 2/106 Tennyson Street, Elwood</li> <li>7 &amp; 9 Wave Street, Elwood</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>Paul Hester Walk along Elwood Canal between St Kilda Street and Marine Parade</li> </ul> <p><b>Essential Infrastructure Impacted</b></p> <ul style="list-style-type: none"> <li>Sewer Emergency Relief Structure on the corner of Byron &amp; Mitford Streets, Elwood within flood waters</li> <li>Elwood Telephone Exchange on the corner of John &amp; Tennyson Streets</li> </ul> <p><b>Water Over Road (Above 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>Foam Street, Elwood</li> </ul>	<p>VICSES to respond as per request by request basis.</p> <p>South East Water to monitor possible contamination of flood waters</p> <p>VICSES to give priority response for the Elwood telephone exchange</p> <p>Council to provide road closure signage if required.</p>

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Wave Street, Elwood</li> <li>• Glen Huntly Road, Elwood between Spray Street and Foam Street</li> <li>• Mitford Street, Elwood between Broadway and Glen Huntly Road</li> <li>• Austin Avenue, Elwood</li> <li>• Poets Grove, Elwood</li> <li>• Rothesay Avenue, Elwood</li> <li>• John Street, Elwood</li> <li>• Byron Street, Elwood</li> <li>• Keats Street, Elwood</li> </ul>	
2.9m	2% AEP (50yr ARI) Flood Level	<p><b>Properties at Flood Risk (Over Floor)</b> Note that any multi-lot properties situated above ground floor likely impacted by isolation only. Information on above ground-floor properties is not available in this list.</p> <p><b>176 New at Level; 325 Properties in Total</b></p> <ul style="list-style-type: none"> <li>• 51, 57 &amp; 75 Addison Street, Elwood</li> <li>• 29 &amp; 31 Austin Avenue, Elwood</li> <li>• 345, 355, 357, 359, 363 &amp; 365 Barkly Street, Elwood</li> <li>• 151, 153, Units 1-15/157, 165, 165A, 171 &amp; 175 Brighton Road, Elwood</li> <li>• 5, 21, 33, 35, 37 &amp; 39 Broadway , Elwood</li> <li>• 59, 63, 65, 70 &amp; 81 Byron Street, Elwood</li> <li>• 2, Units 1-4/3, 5, Units 1-11/6-8, 12 &amp; 15 Cyril Street, Elwood</li> <li>• 3, 5, 7, 1/7, 8, Units 1-9/9, 11, 13, 16, 18, 19, 21 &amp; Units 1-21/25 Foam Street, Elwood</li> <li>• Units 1-8/98, 110, 112, 114 &amp; 116 Glen Huntly Road, Elwood</li> <li>• 2, 6, 10, 12-14, 16, 20, 22, 24, 26, 38, 40, 42, 44, 46, 48, 50 &amp; 59 Goldsmith Street, Elwood</li> <li>• 3/25, 4/25, 5/25, 1/27 &amp; 2/27 Gordon Avenue, Elwood</li> <li>• 32, 34, 36, 38, 39, 40, 41, 42, 44, 46 &amp; 48 John Street, Elwood</li> <li>• 1 Lawson Street, Elwood</li> <li>• 6, 10, 20, 38 &amp; 42 Meredith Street, Elwood</li> <li>• 86, 88, 90, Units 1-7/92, 96, 98, 100, 104, 106, 108, 110, 112, 114, Units 1-8/115, 116, Units 1-4/120, 124, 126, 129, 129A, 144, 146, 148, 150, 152 &amp; 154 Mitford Street, Elwood</li> <li>• 4, 6, 13 &amp; 16 Moore Street, Elwood</li> <li>• 29, 33, 34, 35, 36, 38, Units1-4/40, 42, 44 &amp; 46 Rothesay Avenue, Elwood</li> <li>• Units 1-10/46-48 &amp; Units 1-7/49 Ruskin Street, Elwood</li> <li>• 56, 58, 64 &amp; 64A Scott Street, Elwood</li> <li>• 4, 4A, 1/18, 2/18, 3/18, 4/18, 1/26, 2/26, 3/26, 4/26 &amp; Units 1-8/41 Shelley Street, Elwood</li> <li>• 1/489, 2/489, Units 1-7/491, Units 1-8/493-495, 497, 499, 501, 501A, Units 1-8/507, 1/513, 2/513 &amp; 1-6/515 St Kilda Street, Elwood</li> <li>• Units 1-16/94, 104, 1/106, 2/106 &amp; 108 Tennyson Street, Elwood</li> <li>• 1 Tide Street, Elwood</li> <li>• 3, 4, 5, 7, 8, 9, 10, 11, 13, 15, 17, 19, 32, 34 &amp; 38A Wave Street, Elwood</li> </ul> <p><b>Community Infrastructure Flooded</b></p>	<p>VICSES to respond as per request by request basis.</p> <p>Primary schools to implement emergency evacuation as required</p> <p>South East Water to monitor possible contamination of flood</p>

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Elwood Primary School &amp; Kinder on Scott Street, Elwood</li> <li>• Elwood College at 101 Glen Huntly Road, Elwood</li> <li>• Paul Hester Walk along Elwood Canal between St Kilda Street and Marine Parade</li> </ul> <p><b>Essential Infrastructure Impacted</b></p> <ul style="list-style-type: none"> <li>• Sewer Emergency Relief Structure on the corner of Byron &amp; Mitford Streets, Elwood within flood waters</li> <li>• Elwood Telephone Exchange on the corner of John &amp; Tennyson Streets</li> </ul> <p><b>Water Over Road (Above 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>• St Kilda Street, Elwood between Ormond Road and Glen Huntly Road</li> <li>• Spray Street, Elwood</li> <li>• Foam Street, Elwood</li> <li>• Tide Street, Elwood</li> <li>• Wave Street, Elwood</li> <li>• Glen Huntly Road, Elwood between Ormond Road and St Kilda Street</li> <li>• Mitford Street, Elwood between Broadway and Glen Huntly Road</li> <li>• Austin Avenue, Elwood</li> <li>• Poets Grove, Elwood</li> <li>• Rothesay Avenue, Elwood</li> <li>• John Street, Elwood</li> <li>• Byron Street, Elwood</li> <li>• Keats Street, Elwood</li> <li>• Shelley Street, Elwood</li> <li>• Goldsmith Street, Elwood</li> <li>• Meredith Street, Elwood</li> <li>• Barkly Street, Elwood between Elwood Canal and Milton Street</li> <li>• Lawson Street, Elwood</li> </ul>	<p>waters</p> <p>VICSES to give priority response for the Elwood telephone exchange</p> <p>Council to provide road closure signage if required.</p>
2.94m	4 <sup>th</sup> February 2011 Flood Level Peak	<p><b>Event Summary</b></p> <ul style="list-style-type: none"> <li>• <b>106mm of rain fell over the Elwood Canal Catchment in 3 hours</b></li> </ul>	
3.03m	1% AEP (100yr ARI) Flood Level	<p><b>Properties at Flood Risk (Over-Floor)</b> Note that any multi-lot properties situated above ground floor likely impacted by isolation only. Information on above ground-floor properties is not available in this list.</p> <p><b>251 New at Level; 576 Properties in Total</b></p> <ul style="list-style-type: none"> <li>• 45-47, 51, 53, 57, 73 &amp; 75 Addison Street, Elwood</li> <li>• 22, 2/27, 29, 31 &amp; 32 Austin Avenue, Elwood</li> <li>• 322, 335, 337, 339, 341, 345, 347, 353, 355, 357, 359, 361, 363, 365, 367 &amp; 369 Barkly Street, Elwood</li> <li>• 1/145A, 2/145A, 3/145A, 4/145A, 5/145A, 6/145A, 151, 153, Units 1-6/157, 151, 153, Units 1-15/157, 165, 165A, 169, 171, 175, Units 1-4/185, Units 1-12/189, Units 1-24/193, Units 1-12/195 &amp; Units 1-24/197 Brighton Road, Elwood</li> <li>• 5, 9, 21, 23, 33, 35, 37, 39 &amp; Units 1-4/47 Broadway, Elwood</li> <li>• Units 1-8/51, 59, 63, 65, 70, 72 &amp; 81 Byron Street, Elwood</li> <li>• 2, Units 1-4/3, 5, Units 1-11/6-8, 12 &amp; 15 Cyril Street, Elwood</li> </ul>	<p>VICSES to respond as per request by request basis.</p>

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 3, 5, 7, 1/7, 8, Units 1-9/9, 10, 11, 11A, 13, 14, 16, 17, 18, 19, 21, Units 1-6/23, 24 &amp; Units 1-21/25 Foam Street, Elwood</li> <li>• Units 1-3/44, 68, Units 1-8/98, 106, 108, 110, 112, 114, 116, 117, 120, Units 1-12/126, Units 1-16/130, 132 &amp; 134 Glen Huntly Road, Elwood</li> <li>• 2, 4, 6, 8, 10, 12-14, 14, 16, 18, 20, 22, 24, 26, 29, 31, 33, 35, 36, 38, 40, 42, 44, 46, 48, 50, 51-55, 57, 58 &amp; 59 Goldsmith Street, Elwood</li> <li>• 3/25, 4/25, 5/25, 1/27 &amp; 2/27 Gordon Avenue, Elwood</li> <li>• Units 1-8/9 Greig Court, Elwood</li> <li>• 29A &amp; 29 John Street, Elwood</li> <li>• 32, 34, 36, 38, 39, 40, 41, 42, 43, 44, 46 &amp; 48 John Street, Elwood</li> <li>• 1 &amp; 3 Lawson Street, Elwood</li> <li>• 6, 8, 10, 11, 20, 38, 40 &amp; 42 Meredith Street, Elwood</li> <li>• 86, 88, 90, Units 1-7/92, 96, 98, 100, 104, 106, 107, 108, 109, 110, 111, 112, 113, 114, Units 1-8/115, 116, Units 1-4/120, 124, 126, 127, 129, 129A, 144, 146, 148, 150, 152 &amp; 154 Mitford Street, Elwood</li> <li>• 4, 6, 13, 16, 26 &amp; 28 Moore Street, Elwood</li> <li>• Units 1-9/9 Robert Street, Elwood</li> <li>• 29, 32, 33, 34, 35, 36, 38, Units 1-4/40, 42, 44 &amp; 46 Rothesay Avenue, Elwood</li> <li>• Units 1-10/46-48, Units 1-7/49, 59, 61, 63, 79 &amp; 83 Ruskin Street, Elwood</li> <li>• 56, 58, 64 &amp; 64A Scott Street, Elwood</li> <li>• 2, 4, 4A, Units 1-6/12, Units 1-8/14, Units 1-4/18, Units 1-6/22, Units 1-6/24, Units 1-4/26, 33, 37, Units 1-5/39, 1-8/41 &amp; 55 Shelley Street, Elwood</li> <li>• Units 1-2/489, Units 1-7/491, Units 1-8/493-495, 497, 499, 501, 501A, Units 1-8/507, 1/513, 2/513 &amp; Units 1-6/515 St Kilda Street, Elwood</li> <li>• Units 1-16/94, 104, 1/106, 2/106 &amp; 108 Tennyson Street, Elwood</li> <li>• 1 Tide Street, Elwood</li> <li>• 3, 4, 5, 7, 8, 9, 10, 11, 13, 15, 17, 19, Units 1-5/22, 32, 34 &amp; 38A Wave Street, Elwood</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• Elwood Primary School &amp; Kinder on Scott Street, Elwood</li> <li>• Elwood College at 101 Glen Huntly Road, Elwood</li> <li>• Paul Hester Walk along Elwood Canal between St Kilda Street and Marine Parade</li> </ul> <p><b>Essential Infrastructure Impacted</b></p> <ul style="list-style-type: none"> <li>• Sewer Emergency Relief Structure on the corner of Byron &amp; Mitford Streets, Elwood within flood waters</li> <li>• Elwood Telephone Exchange on the corner of John &amp; Tennyson Streets</li> </ul> <p><b>Water Over Road (Above 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>• St Kilda Street, Elwood between Ormond Road and Glen Huntly Road</li> <li>• Spray Street, Elwood</li> <li>• Foam Street, Elwood</li> <li>• Tide Street, Elwood</li> <li>• Wave Street, Elwood</li> </ul>	<p>Primary schools to implement emergency evacuation as required</p> <p>South East Water to monitor possible contamination of flood waters</p> <p>VICSES to give priority response for the Elwood telephone exchange</p> <p>Council to provide road closure signage if required.</p>

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Glen Huntly Road, Elwood between Ormond Road and St Kilda Street</li> <li>• Mitford Street, Elwood between Broadway and Glen Huntly Road</li> <li>• Austin Avenue, Elwood</li> <li>• Poets Grove, Elwood</li> <li>• Scott Street, Elwood</li> <li>• Rothesay Avenue, Elwood</li> <li>• John Street, Elwood</li> <li>• Byron Street, Elwood</li> <li>• Keats Street, Elwood</li> <li>• Shelley Street, Elwood</li> <li>• Goldsmith Street, Elwood</li> <li>• Meredith Street, Elwood</li> <li>• Barkly Street, Elwood between Elwood Canal and Milton Street</li> <li>• Lawson Street, Elwood</li> <li>• Marine Parade, Elwood at Meredith Street</li> </ul>	
3.34m		<ul style="list-style-type: none"> <li>• Breakout level of Elster Creek at Gauging Station in the City of Bayside</li> </ul>	

Table C1.9 – Breakdown of likely consequences at various Elsternwick gauge level heights along Elster Creek and Elwood Canal with operational considerations

# FLOOD INTELLIGENCE CARD – ST KILDA MARINA GAUGE, PORT PHILLIP BAY

Version 3 – February 2019



Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.

This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

LOCATION	St Kilda Marina, Marina Parade, St Kilda
MELWAY REFERENCE:	57 K12
WATERWAY:	Port Phillip Bay
GAUGE NUMBER:	229670A
GAUGE ZERO:	0.00m AHD (Changed from ACD in June 2008)
GAUGE TYPE	Tide Level & Rainfall

MINOR:	N/A
MODERATE:	N/A
MAJOR	N/A
LEVEE HEIGHT:	N/A
TELEMETRIC/MANUAL	Telemetric
HIGHEST RECORDED TIDE:	1.28m (24 <sup>th</sup> June 2014 & 7 <sup>th</sup> November 1994)

Bay Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
1.19m	26 <sup>th</sup> April 2009 High Tide Level	<b>Event Summary</b> <ul style="list-style-type: none"> <li>Strong West to South Westerly winds and low atmospheric pressure conditions caused high tides. 12mm of rain recorded at St Kilda Marina over 48 hours.</li> </ul>	
1.28m	24 <sup>th</sup> June 2014 High Tide Level	<b>Event Summary</b> <ul style="list-style-type: none"> <li>Strong South Westerly causing Storm Surges from City to Frankston. Only 8mm of rain recorded at St Kilda Marina over 24 hours.</li> <li>Jerry's Milk Bar at Corner Barkly Street &amp; Meredith Street flooded with Roads Closed.</li> </ul>	
1.60m	1% AEP (100yr ARI) Tide Level	<b>Properties at Flood Risk (Over Floor)</b> <b>47 Properties in Total</b> <ul style="list-style-type: none"> <li>64A Scott Street, Elwood</li> <li>90, 94, 98, 100, 104, 106, 108, 110, 112, 114, 116, 120, 124 &amp; 126 Mitford Street, Elwood</li> <li>46 Rothesay Avenue, Elwood</li> <li>10 Goldsmith Street, Elwood</li> <li>25 Gordon Avenue, Elwood</li> <li>46 &amp; 49 Ruskin Street, Elwood</li> <li>6, 10, 20, 38 &amp; 42 Meredith Street, Elwood</li> <li>51, 53, 57 &amp; 75 Addison Street, Elwood</li> <li>322, 335, 337, 339, 341, 345, 347, 353, 355, 357, 359, 361, 363, 365, 367 &amp; 369</li> </ul>	<p>VICSES will provide warnings as required based on the predications provided by BoM regarding flood levels and the risk of Flash Flooding. The Central Duty officer in conjunction with the Regional Agency Controller will maintain operational awareness and form an appropriate response arrangement to suit the level of incident</p> <p>VICSES to respond as per request by request basis.</p>

Bay Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>Barkly Street, Elwood</li> <li>• 1 &amp; 3 Lawson Street, Elwood</li> <li><b>Community Infrastructure Flooded</b></li> <li>• Paul Hester Walk along Elwood Canal between Glen Huntly Road and Marine Parade</li> <li>• St Kilda Marina likely Flooded with sheds on the western edge impacted</li> <li><b>Essential Infrastructure Impacted</b></li> <li>• Sewer Emergency Relief Structure on the corner of Byron &amp; Mitford Streets, Elwood within flood waters</li> <li>• St Kilda Coast Guard (Victoria Flotilla 2) in St Kilda Marina likely impacted with Marina flooded</li> <li><b>Water Over Road (Above 300mm Depth)</b></li> <li>• Glen Huntly Road, Elwood at Mitford Street</li> <li>• Mitford Street, Elwood between Byron Street and Rothesay Avenue</li> <li>• John Street, Elwood at Mitford Street</li> <li>• Meredith Street, Elwood</li> <li>• Barkly Street, Elwood between Glen Huntly Road and Milton Street</li> <li>• Lawson Street, Elwood</li> <li>• Lytton Street, Elwood</li> <li>• Dickens Street, Elwood</li> <li>• Marine Parade, Elwood at Meredith Street and at Blessington Street</li> </ul>	<p>Council to provide road closure signage if required.</p>

Table C1.10 – Breakdown of likely consequences at various St Kilda Marina gauge level heights along the Port Phillip Bay coastline in Elwood with operational considerations

# APPENDIX C2 – SHAKESPEARE GROVE FLOOD EMERGENCY PLAN

## Overview of Flooding Consequences

This Summary table is generated from Victorian Government data. The State of Victoria does not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for error, loss or damage which may arise from reliance upon it. All persons access this information should make appropriate enquiries to assess the currency of the data.

### Summary of Consequences in a 1% AEP (100yr ARI) flood along Shakespeare Grove M.D. in St Kilda & Balaclava

Property					
<b>Properties (Over-Floor Risk)</b>	<b>1,404</b>				
Residential	1,149				
Commercial	231		Including Carlisle, Chapel and Inkerman Sts and St Kilda Rd Commercial Precincts.		
Industrial	15		William Street, Balaclava		
Public Land	9				
Rural	0				
Community Infrastructure					
Health Facilities	0		Child Care / Kindergartens	0	
Care Facilities	0		Community Venues	0	
Retirement Villages	0		Places of Worship	0	
Schools / Colleges	2	Christian Brothers' College; and St Kilda Primary School	Prisons	0	
Essential Infrastructure					
Major Roads	4	Barkly St, Carlisle St, Chapel St & Inkerman St	Police Stations	1	St Kilda
Major Rail	1	Sandringham Line	Government Buildings	1	Town Hall Car Park
Bus / Tram Routes	3	Trams 3, 78 & 79	Sewerage Facilities	0	
Power Facility	0		Levees	0	
Comms Services	0		Drainage Facilities	0	
Emergency Services	1	Windsor Ambulance Station	Airports / Airfields	0	
Tourism / Recreation					
Sports Facilities	0		Caravan Parks	0	
Recreation Facilities	0		Camping Grounds	0	
Government Boundaries					
Local Gov't Areas	1	Port Phillip	CMA	1	Port Phillip & Westport
Adjacent LGAs	1	Glen Eira	CFA District	0	
SES Unit Area	1	Port Phillip	MFB District	1	Southern

Table C2.1 – Consequence Summary of 1% AEP flood along the Shakespeare Grove Main Drain in St Kilda and Balaclava

Shakespeare Grove Main Drain is a stormwater drainage system that runs through St Kilda East, Balaclava & St Kilda. Stormwater may begin in Caulfield North or Elsternwick in the City of Glen Eira

before entering the City of Port Phillip and discharging into Port Phillip Bay near Luna Park in St Kilda.

Key Infrastructure at risk in the Shakespeare Grove catchment are commercial areas along Inkerman, Carlisle & Chapel Streets with many of these businesses at risk of flooding over-floor. These three roads are also at risk of closure with trams running along Carlisle and Chapel Streets. The Sandringham Railway Line at Ripponlea may experience flooding. The Port Phillip City Council, St Kilda Primary School & St Kilda Police Station may also be affected by floodwaters.

## Warning Times

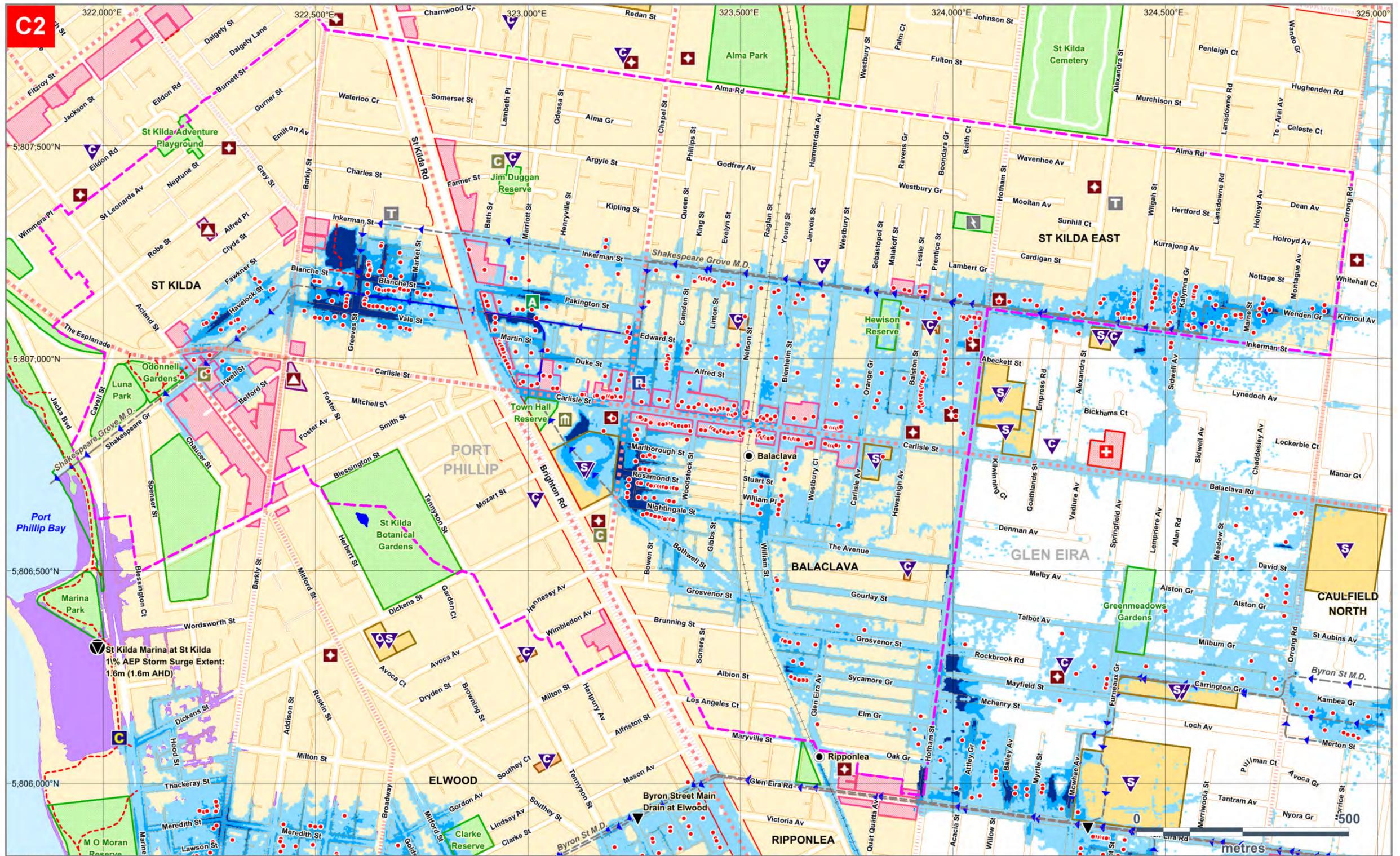
No flood warning service is available from Melbourne Water due to the ungauged (water level) nature of the Shakespeare Grove catchment. A rain gauge is located in Caulfield North that may give an indication of possible flooding.

Melbourne Water Hydrographic Monitoring Station	Station No.	Location	Stream Level	Rain Gauge	Tide Level Gauge	Melway Reference
Caulfield North	586194	Caulfield Park, Balaclava Road, Caulfield North		✓		59 C12

Table C2.2 – Hydrographic Monitoring Stations within the Shakespeare Grove Main Drain catchment

These Gauges may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges: <http://www.melbournewater.com.au/waterdata/rainfallandriverleveldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

Areas of Flood Risk



Shakespeare Grove Drain flood mapping complete by WBM, March 2012. Map Produced by VicSES January 2019.

**CITY OF PORT PHILLIP**  
 1% AEP (100yr ARI) Flooding  
**C2. Areas of flood risk**  
 around St Kilda, St Kilda East & Balaclava

- |   |                                  |                           |                                 |                                  |
|---|----------------------------------|---------------------------|---------------------------------|----------------------------------|
| Building                                      | Shopping Precinct                | Kindergarten / Child Care | Coast Guard Flotilla            | Sewer Emergency Relief Point     |
| Area of Interest                              | 1% AEP Storm Surge Extent        | School / College          | Community Centre                | Telephone Exchange               |
| Waterbody                                     | Creek / Channel                  | Place Of Worship          | Hospital                        | Level Gauge & 1% AEP Flood Level |
| 1% AEP Flash Flood Depth Greater than 60cm    | Bicycle / Walking Trail          | Aged Care Facility        | Police Station                  | Rain Gauge                       |
| 1% AEP Flash Flood Depth Between 30cm to 60cm | Bus Route (PTV)                  | Municipal Offices         | 1% AEP Over-Floor Flooding Risk | Power Terminal Station           |
| 1% AEP Flash Flood Depth Up to 30cm           | Melbourne Water Stormwater Drain | Boundary for Appendix C2  |                                 |                                  |

SES VICTORIA  
 Melbourne Water

This map publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

Figure C2 – Areas of flood risk along the Shakespeare Grove Drain in the City of Port Phillip

## Properties at Flood Risk

Properties listed in the table below are at risk from flooding over-floor within the Shakespeare Grove Main Drain catchment in Port Phillip. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Shakespeare Grove (WBM, March 2012) flood mapping and risk assessment program. Note that any multi-lot properties situated above ground floor likely impacted by isolation only with flooding on ground floor impacting access to common areas and/or carpark and storage facilities. Information on above ground-floor properties is not available in this list.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	78A Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	80B Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	80A Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	82A Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	82B Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	101/82 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	201/82 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	84-86 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	3/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	4/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	5/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	6/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	7/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	8/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	9/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	10/88 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	90 Acland Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G01/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G02/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G03/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G04/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G05/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G06/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G07/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G08/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G09/2 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1/3 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	5 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	7 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	9 Albert Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	30 Alexandra Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	32 Alexandra Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1 Alfred Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Alfred Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	2/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	7/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	8/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	9/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	10/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	11/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	12/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	13/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	14/3 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	22 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	24 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	26 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	28 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	30 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	32 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	33 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	34 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	38 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	8/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	9/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	10/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	11/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	12/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	13/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	14/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash

**Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip**

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	15/39 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	40 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	42 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	44 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	46 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	48 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	50 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	52A Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/52 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/52 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/52 Balston Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/1 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/1 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3B Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3A Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	Db1/8 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	Db2/8 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	Db3/8 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	7/8 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	9/8 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	25 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	27 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	28-30 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/28-30 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	29 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	29A Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	31 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	33 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1/34 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/34 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	35 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	37 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	38 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	39 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	39A Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	41 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	43 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	47 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	49A Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	49 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	52 Blanche Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	4 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/23 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/23 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/23 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/23 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/23 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/23 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	8/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	9/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	10/30 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	35 Blenheim Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2D Bothwell Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	1/23 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/23 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/23 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/23 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	27 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	29 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	31 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	33 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	35 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	36 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	38 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	40 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	44 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	54 Camden Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2A Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	3/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	4/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	5/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	6/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	7/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	8/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	9/2 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	6-8 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	11-13 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1/22 Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	2/22 Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3/22 Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/22 Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/22 Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/22 Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	7/22 Carlisle Avenue	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	99B Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	109 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	111 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	114 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1/114 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	115 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	116 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	117 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	118 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	118A Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	119 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	120 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	121 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	122 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	123-127 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	124 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1G0/126 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	2G0/126 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	3G0/126 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	4G0/126 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	5G0/126 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	6G0/126 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	129-131 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/129-131 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	130 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	132 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1/132 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	2/132 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	3/132 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	4/132 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	5/132 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	133 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	134 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	135 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/135 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	137 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	139 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	141 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	143 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	145 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	147A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	147 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	149A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	149-151 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	153 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	155 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/155 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	156A Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	156B Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	157 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/157 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	159 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	162 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	162A Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	1/165 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/165 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/165 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/165 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/165 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/165 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/165 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	167 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	168 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	169 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	171 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	172 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	173 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	175 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	178 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	179 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	180 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	181 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	183 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	184 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	185 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	185A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
✓	✓	✓	186 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	188 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	189 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	190 Carlisle Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	191 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	191A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	192-194 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	193 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/196 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	198 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	199 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	200 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	201 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	202 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/202 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	203 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	204 Carlisle Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	205 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	206 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	207A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	207 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	208-218 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	209 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	211 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	213 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	215 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	217 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	219 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	220 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/220 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	221 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	223 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	224 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	225-227 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	229 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	231-233 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/232 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1-4/232 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/232 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/232 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/232 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7-9/232 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	10/232 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
✓	✓	✓	234 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	235 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	236 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	237 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	238 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	239A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	239 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	240 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	241 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	241A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/241 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/241 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/241 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	242 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	243 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	243A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	244 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	245 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/246-252 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/246-252 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/246-252 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/246-252 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/246-252 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/246-252 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/246-252 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	247 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	254 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	255A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	255 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	256 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	257 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	258 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	259 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	260 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	262 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	263-265 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/263 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/263 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/263 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	7/263 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	8/263 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	9/263 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	264-266 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash

**Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip**

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	267 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	268 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	269 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	270-272 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	271A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	271 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	274 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	275 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	276 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	277 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/277 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	279 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	280 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	281 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	281A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	283B Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	284 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	11/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	12/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	14/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	15/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	16/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	17/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	18/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	22/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	24/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	25/285 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	26/285A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	286 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	287B Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	287A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	287 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	288 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	289 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	290A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	290 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	291 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	292 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	1/292 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	294 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/296 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/296 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/296A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	298 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	300 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	302 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	304-306 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/304-306 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/304-306 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/304-306 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/304-306 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	308 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	316 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/316 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	9/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	10/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	11/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	12/320 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	322 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	322A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	324 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	324A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	326 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	326A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	328 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	328A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	330 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	330A Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	384 Carlisle Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	42 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	54-56 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	54 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	56 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
✓	✓	✓	92-98 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	100 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	102 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	104 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	106 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	121 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	122 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/122 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/122 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	123 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	124 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	125 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	126A Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	127 Chapel Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	2/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	3/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	4/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	5/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	6/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	7/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	8/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	9/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	10A/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	10B/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	11/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	12/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	13/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	14/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	15/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	16/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	17/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	18/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	19/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	20/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	21/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	22/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	23/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	24/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	25/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	26/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	27/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
✓	✓	✓	28/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	29/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	30/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	31/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	32/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	33/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	34/128-140 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	141 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	141A Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	142 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	143 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	144 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	145 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	146-150 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	149A Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	151 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	152 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	153 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	154 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1/154 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	155 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	157 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	159 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	161 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	169 Chapel Street	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	13 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	8/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	9/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	10/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	11/21 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	25 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	29 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	33 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	35 Chusan Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1 Depot Lane	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	2/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	3/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	4/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	5/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	6/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	7/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	8/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	9/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	10/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	11/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	12/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	13/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	14/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	15/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	16/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	17/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	18/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	19/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	20/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	24/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	25/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	26/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	27/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	28/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	29/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	30/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	31/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	32/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	33/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	34/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	35/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	36/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	37/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	38/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	39/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	40/1 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	2 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	5-7 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	37 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	101/43 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	102/43 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	103/43 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	104/43 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	105/43 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	106/43 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	107/43 Duke Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	5 Edward Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1 Elm Grove	Balaclava	Byron Street Main Drain	Flash
	✓	✓	30A Glen Eira Avenue	Balaclava	Byron Street Main Drain	Flash
		✓	101C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	102C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	103C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	104C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	105C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	106C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	107C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	108C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	109C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	110C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	111C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	112C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	113C/3 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	101E/5 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	102E/5 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	103E/5 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	104E/5 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	105E/5 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	106E/5 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	107E/5 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	101F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	102F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	103F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	104F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	105F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	106F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	107F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	108F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	109F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	110F/7 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	18 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	20 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	22 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	24 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	25 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	26 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	27 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential		Commercial		Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	28 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	29 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	30 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	31 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/31 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	4/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	5/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	6/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	7/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	8/33 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	34 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	35 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/35 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	36 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	38 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	40 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	44 Greeves Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	69 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
	✓	✓	71 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	1/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	2/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	3/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	4/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	5/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	6/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	7/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	8/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	9/72 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
✓	✓	✓	73 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	75 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	1/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	2/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	3/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	4/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	5/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	6/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	7/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	8/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	9/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	10/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	11/81-83 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	1/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	2/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	3/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	4/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	5/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	6/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	7/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	8/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	9/82 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	1/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	2/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	3/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	4/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	5/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	6/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	7/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	8/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	9/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	10/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	11/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	12/85 Grosvenor Street	Balaclava	Byron Street Main Drain	Flash
		✓	5 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	14 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	14A Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	17 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	19 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	20 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	22 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	31 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	39 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	41 Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	56A Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	56B Havelock Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	72 Hotham Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	73 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	8/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	9/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	10/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	11/75 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	2/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	7/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	8/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	9/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	10/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	11/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	12/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	13/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	14/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	15/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	16/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	17/77 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	85 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	8/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	9/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	10/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	11/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	12/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	13/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	14/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	15/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	16/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	17/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	18/91 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash

**Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip**

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	4/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	8/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	9/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	10/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	11/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	12/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	13/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	14/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	15/93-95 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	2/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	7/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	8/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	9/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	10/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	11/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	12/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	14/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	15/97 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	99 Hotham Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	153 Hotham Street	Balaclava	Byron Street Main Drain	Flash
✓	✓	✓	1/153 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	1/165 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	2/165 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	3/165 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	4/165 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	5/165 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	1/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	2/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	3/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	4/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	5/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	6/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	7/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	8/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash
		✓	9/171 Hotham Street	Balaclava	Byron Street Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	21/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	22/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	23/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	101B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	102B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	103B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	104B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	105B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	106B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	107B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	108B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	109B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	110B/21 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	101A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	102A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	103A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	104A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	105A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	106A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	107A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	108A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	109A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	110A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	111A/33 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1R/105 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2R/107 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	101/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	102/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	103/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	104/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	105/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	106/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	107/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	108/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	109/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	110/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	111/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	112/109 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	133 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	101/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	102/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	103/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	104/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	105/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	106/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	107/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	108/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	109/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	110/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	111/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	112/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	113/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	114/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	115/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	116/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	117/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	118/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	119/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	120/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	121/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	122/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	123/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	124/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	125/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	126/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	127/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	128/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	129/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	130/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	131/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	132/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	133/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	134/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	135/135 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	137 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2/162-164 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	5/162-164 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	183 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
✓	✓	✓	9/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	10/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	11/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	12/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	13/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	14/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	15/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	16/197 Inkerman Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	245 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	248-250 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/248-250 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	251-253 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	255 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	257 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	258-260 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	259 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	261 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	262 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	263 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	264 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	265 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	266 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	267 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	268 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/268 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/268 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	269 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/269 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/269 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	270 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	272 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	273 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	274 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	275 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	276 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	277 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	279 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	280 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	281 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	286 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	287 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/290A Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	2/290A Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential		Commercial		Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	3/290A Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	4/290A Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	4/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	5/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	6/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	7/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	8/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	9/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	10/296 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	297 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/298 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	2/298 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	3/298 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	4/298 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	2/300-302 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	305 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/307 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/307 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/307 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/307 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	4/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	5/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	6/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	7/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	8/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	9/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	10/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	11/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	12/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	13/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	14/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	15/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	16/310 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	312 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	315 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	316 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	2/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	5/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	6/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	7/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	8/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	9/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	10/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	11/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	12/317 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	318 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	320 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	322 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	328 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	330 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	332 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	334 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	336 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	9/338-340 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	348 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	353 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	355 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	358 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	360 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	366 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	368 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	370 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	372 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/376 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
✓	✓	✓	6/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	9/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	10/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	11/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	12/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	13/378 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	4/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	5/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	6/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	7/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	8/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	9/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	10/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	11/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	12/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	13/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	14/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	15/380 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	382 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	384 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	385 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	389 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/390 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/390 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3/390 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	4/390 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	5/390 Inkerman Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	391 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	401 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	403 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	405 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	407 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	409 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	411 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	413 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	415 Inkerman Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	3/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	4/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	5/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	6/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	7/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	8/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	9/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	10/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	11/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	12/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	13/4 Irwell Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	5 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	7 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	9 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	10 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	12 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	13 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	14 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	15 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	16 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	18 Kalymna Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/56 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/56 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	9/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	10/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	11/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	12/58 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/62 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/62 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3/62 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	4/62 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	5/62 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	6/62 Lansdowne Road	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1 Lyell Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Lyell Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1-5 Market Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	7-9 Market Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1 Marlborough Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	3 Marlborough Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	5 Marlborough Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	7 Marlborough Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	9 Marlborough Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	9/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	10/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	11/1 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/2 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2/2 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3/2 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	5 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	7 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	9 Marne Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	2/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	3/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	4/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	5/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	6/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	7/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	8/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	9/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	10/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	11/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	12/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	13/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	14/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	15/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	16/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	17/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	18/1-5 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	1/7 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	2/7 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	3/7 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	4/7 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	G01/12 Martin Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G02/12 Martin Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G03/12 Martin Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G04/12 Martin Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	G05/12 Martin Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	13 Martin Street	St Kilda	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1/17 Nelson Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/17 Nelson Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	33 Nelson Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	63-65 Nelson Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	5 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	1/6 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	2/6 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	3/6 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	4/6 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	5/6 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	6/6 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	7 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	8 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	9 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	11 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	13 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	14 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	15 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	17 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	19 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	21 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	22 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	24 Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	26A Nightingale Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	19 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	22 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/22 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	2/22 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	3/22 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/22 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/22 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/22 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	25 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	27 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/29 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/29 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	30 Orange Grove	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	287 Orrong Road	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	289 Orrong Road	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	9-11 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	14 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/14 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	16 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/16 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	18 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/18 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	19 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	21-23 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	22-24 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	25-27 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	31A Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	37 Pakington Street	St Kilda	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/33 Prentice Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/33 Prentice Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/33 Prentice Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/33 Prentice Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/33 Prentice Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/33 Prentice Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	2 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	3 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	4 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	6 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	7 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	8 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	9 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	9A Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
✓	✓	✓	11 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	13-15 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	17 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	19A Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	19B Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	23 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	25 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
	✓	✓	27 Rosamond Street	Balaclava	St Kilda Town Hall Main Drain	Flash
		✓	23 Shakespeare Grove	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	4R/306A St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	113/308 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	114/308 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3R/310 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	3/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	4/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	5/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	6/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	7/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	8/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	9/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	10/322-332 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	344 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	350 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	352-360 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	362-364 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	366 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	374 St Kilda Road	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/376 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	378 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	380 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	382 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	384 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	388 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	1/390 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	392 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	394 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	396A St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	396 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	398A St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
	✓	✓	398 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	1/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	1A/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	2/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	2A/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	3/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	3A/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	4A/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	4/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	5/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	5A/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	6A/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	6B/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	7/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	8/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	9/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	13/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	14/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	15/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	16/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	17/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	18/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	19/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	20/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	21/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	22/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	23/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	24/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	25/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	26/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	27/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	28/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	29/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	30/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	31/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	32/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	33/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	50/400 St Kilda Road	St Kilda	St Kilda Town Hall Main Drain	Flash
		✓	49 Sycamore Grove	Balaclava	Byron Street Main Drain	Flash
		✓	51 Sycamore Grove	Balaclava	Byron Street Main Drain	Flash
		✓	53 Sycamore Grove	Balaclava	Byron Street Main Drain	Flash
	✓	✓	54 Sycamore Grove	Balaclava	Byron Street Main Drain	Flash
		✓	55 Sycamore Grove	Balaclava	Byron Street Main Drain	Flash
		✓	57 Sycamore Grove	Balaclava	Byron Street Main Drain	Flash
	✓	✓	58 Sycamore Grove	Balaclava	Byron Street Main Drain	Flash
		✓	1 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	5 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/6 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
	✓	✓	2/6 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	7 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	4/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	5/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	6/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	7/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	8/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	9/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	10/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	11/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	12/9-11 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/12 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2/12 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3/12 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	4/12 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	17 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/18 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2/18 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	19 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/20 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2/20 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	23 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	1/24 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2/24 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	3/24 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	4/24 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1/26 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/26 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	3/26 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	4/26 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	28 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	29 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	30 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	30A Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	1/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	2/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	3/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	4/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	5/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	6/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
		✓	7/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	8/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	9/32 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	33 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	35 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
		✓	44 Vale Street	St Kilda	Shakespeare Grove Main Drain	Flash
	✓	✓	2 Wenden Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8 Wenden Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	10 Wenden Grove	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	1/93 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/93 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/93 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/93 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	2/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	7/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	8/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	9/102 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	2/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	5/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	7/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	8/104 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1/110 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	2/110 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	3/110 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	4/110 Westbury Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	1 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	2 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	3 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	4 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	5 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	6 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	7 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	8 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	9 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip

Properties at risk from Flooding Over-Floor in the Shakespeare Grove Main Drain Catchment in Port Phillip						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	2% AEP	1% AEP				
✓	✓	✓	1/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	4/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	5/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	6/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	7/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
✓	✓	✓	8/10 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	11 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	12A Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	12 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	14 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	16 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
	✓	✓	20 Wilgah Street	St Kilda East	Shakespeare Grove Main Drain	Flash
		✓	2 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3 William Place	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	3A William Place	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	4 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	6-8 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	10 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	14 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	16-20 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	21 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	22 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	23 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	24-26 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	25 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	1/27 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	2/27 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
✓	✓	✓	3/27 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	34 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	1/34 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	36 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	38 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	40 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
	✓	✓	40A William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	42 William Street	Balaclava	Shakespeare Grove Main Drain	Flash
		✓	70 William Street	Balaclava	Byron Street Main Drain	Flash
		✓	72 William Street	Balaclava	Byron Street Main Drain	Flash
		✓	74 William Street	Balaclava	Byron Street Main Drain	Flash
	✓	✓	31 Woodstock Street	Balaclava	Shakespeare Grove Main Drain	Flash
<b>Totals</b>						
<b>309</b>	<b>901</b>	<b>1,404</b>				

## Isolation

No major isolation risks exist for areas along Shakespeare Grove Drain in Balaclava, St Kilda & St Kilda East during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

## Essential Infrastructure

The following essential infrastructure is at risk of flooding during a range of flooding events.

- The **St Kilda Police Station** on Chapel Street, St Kilda likely flooded over floor and experience access issues along Chapel Street between Brighton Road and Inkerman Street during a 20% AEP (5 year ARI) event.
- The **Port Phillip Council Town Hall Car Park** likely flooded in a 20%AEP (5 year ARI) event.
- **Windsor Ambulance Station** on Pakington Street, St Kilda likely flooded over-floor during a 20% AEP (5 year ARI) event.
- **Tram Services** along Chapel Street, Routes 78 & 79 likely impacted during a 20% AEP event by flooding along Chapel Street between Brighton Road, St Kilda and Inkerman Street
- **Tram Services** along Carlisle Street, Routes 3 & 79 likely impacted by flooding along Carlisle Street between Brighton Road, St Kilda and Balaclava Railway Station during a 5% AEP (20 year ARI) event.
- **The Sandringham Railway Line** at Ripponlea Station likely impacted during a 2% AEP (50 year ARI) event.

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>. A map of Public Transport routes within the City of Port Phillip is available via the website at: [https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/45\\_Port\\_Phillip\\_LAM.pdf](https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/45_Port_Phillip_LAM.pdf)

Apart from the roads outlined below, all other essential infrastructure and services areas along Shakespeare Grove Drain in Balaclava, St Kilda & St Kilda East are expected to remain unaffected by flooding during a 1% AEP (100yr ARI) event.

## Road Closures

The following roads are subject to closure by VicRoads or Port Phillip City Council during flooding along Shakespeare Grove Drain in Balaclava, St Kilda & St Kilda East. Check the VicRoads website for more details: <http://alerts.vicroads.vic.gov.au/>

VicRoads Roads flooded in a 1% AEP (100yr ARI) event
• Barkly Street, St Kilda between Carlisle Street and Inkerman Street
• Carlisle Street, St Kilda between Brighton Road and Hotham Street
• Chapel Street, St Kilda between Brighton Road and Inkerman Street
• Inkerman Street, St Kilda East between Chapel Street and Orrong Road

Table C2.4 – VicRoads Possible Road Closures during a flooding event

Port Phillip City Council Roads flooded in a 1% AEP (100yr ARI) event		
BALACLAVA	ST KILDA	• Martin Street
• Marlborough Street	• Blanche Street	• Pakington Street
• Nightingale Street	• Duke Street	• Vale Street
• Rosamond Street	• Greeves Street	ST KILDA EAST
• Stuart Street	• Havelock Street	• Camden Street
• Sycamore Grove	• Irwell Street	• Kalynma Grove
• William Street	• Lyell Street	• Lansdowne Road
• Woodstock Street	• Market Street	• Wenden Grove

Table C2.5 – Port Phillip City Council Possible Road Closures during a flooding event

## Flood Mitigation

No formal Retarding Basins, Pumping Stations or Levees exist along Shakespeare Grove Drain in Balaclava, St Kilda & St Kilda East.

## Sewerage Infrastructure

There is no sewerage Infrastructure expected to be within the vicinity of floodwaters during severe flood events along Shakespeare Grove Drain in Balaclava, St Kilda & St Kilda East.

## Command, Control and Coordination

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

## Flood Impacts & Operational Considerations (Intelligence Cards)

The tables on the following pages provide a breakdown of the possible consequences of flooding along the Shakespeare Grove Main Drain at various rain totals within the City of Port Phillip. These tables are to be used only as a guide as no two floods at a location will have identical impacts.

Intelligence Cards have been included for the following locations:

- Shakespeare Grove Main Drain, St Kilda

# FLOOD INTELLIGENCE CARD – SHAKESPEARE GROVE MAIN DRAIN, ST KILDA (UNGAUGED)

Version 3 – February 2019



Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.

This Flood Intelligence Card publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.

CLOSEST RAIN GAUGE	<b>Caulfield North</b>
LOCATION	<b>Caulfield Park on Balaclava Road, Caulfield North</b>
MELWAY REF:	<b>59 C12</b>

GAUGE NUMBER	<b>586194</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
11mm in 10 mins; 19mm in 30 mins; 24mm in 1 hour; 30mm in 2 hours; 34mm in 3 hours; or 42mm in 6 hours  Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.	20% AEP (5 year ARI)	<b>Properties at Flood Risk (Over Floor)</b> <b>309 Properties in Total</b> <ul style="list-style-type: none"> <li>34 &amp; 38 Balston Street, Balaclava</li> <li>35 Blenheim Street, Balaclava</li> <li>2D Bothwell Street, Balaclava</li> <li>54 Camden Street, Balaclava</li> <li>2A Carlisle Avenue, Balaclava</li> <li>141, 147, 147A, 175, 179, 189, 206, 208-218, 213, 215, 217, 219, 220, 1/220, 221, 223, 224, 1/232, Units 1-10/232, 234, 236, 238, 240, 242, 244, Units 1-7/246-252, 254, 256, 258, 260, 262, 264-266, 268, 270-272, 274, 276, 279, 280, 281A, 283B, Units 1-4/285, 6/285, Units 11-12/285, Units 14-18/285, 22/285, Units 24-25/285, 26/285A, 287, 287A, 287B, 289, 294, 304-306, Units 1-4/304-306 &amp; Units 1-12/320 Carlisle Street, Balaclava</li> <li>114, 1/114, 116, 118A, Units 1G0-6G0/126, 132, Units 1-5/132, 134, 186, 188, 190, 192-194, 3/196, 198, 200, 202, 1/202 &amp; 204 Carlisle Street, St Kilda</li> <li>42, 92-98, 100, 102, 104, 106, 122, 1/112, 2/122, 124, 126A, 128-140, Units 1-9/128-140, 10A/128-140, 10B/128-140, Units 11-34/128-140, 142, 144, 146-150, 152, 153, 154, 1/154, 155, 157, 159, 161 &amp; 169 Chapel Street, St Kilda</li> <li>73 Grosvenor Street, Balaclava</li> <li>72 Hotham Street, St Kilda East</li> <li>153 &amp; 1/153 Hotham Street, Balaclava</li> <li>257, 277, 279, 287 &amp; 305 Inkerman Street, Balaclava</li> <li>Units 1-16/197 Inkerman Street, St Kilda</li> <li>248-250, 2/248-250, 262, 264, 266, 270, 272, 274, 276, 280, 328, 332, 336, Units 1-9/338-340, 372, 2/376 &amp; Units 1-13/378 Inkerman Street, St Kilda East</li> </ul>	VicSES will provide warnings as required based on the predications provided by BoM regarding flood levels and the risk of Flash Flooding. The Central Duty officer in conjunction with the Regional Agency Controller will maintain operational awareness and form an appropriate response arrangement to suit the level of incident  VicSES to respond as per request by request basis.

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 2 &amp; 4 Kalymna Grove, St Kilda East</li> <li>• Units 1-12/58 Lansdowne Road, St Kilda East</li> <li>• 1 Marlborough Street, Balaclava</li> <li>• Units 1-11/1 Marne Street, St Kilda East</li> <li>• 1/17, 2/17 &amp; 63-65 Nelson Street, Balaclava</li> <li>• 5, Units 1-6/6, 7 &amp; 14 Nightingale Street, Balaclava</li> <li>• 287 Orrong Road, St Kilda East</li> <li>• 25-27 Pakington Street, St Kilda</li> <li>• Units 1-6/33 Prentice Street, St Kilda East</li> <li>• 1, 2, 3, 4, 6, 7 &amp; 11 Rosamond Street, Balaclava</li> <li>• 8 Wenden Grove, St Kilda East</li> <li>• Units 1-8/10 Wilgah Street, St Kilda East</li> <li>• 23 &amp; Units 1-3/27 William Street, Balaclava</li> </ul> <p><b>Essential Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• St Kilda Police Station on Chapel Street, St Kilda likely flooded over floor and experience access issues along Chapel Street between Brighton Road and Inkerman Street</li> <li>• Port Phillip Council Town Hall Car Park flooded</li> <li>• Windsor Ambulance Station on Pakington Street, St Kilda likely flooded over floor</li> <li>• Tram Services along Chapel Street, Routes 78 &amp; 79 likely impacted by flooding along Chapel Street between Brighton Road, St Kilda and Inkerman Street</li> </ul> <p><b>Water Over Road (Over 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>• Stuart Street, Balaclava</li> <li>• Nightingale Street, Balaclava</li> <li>• Rosamond Street, Balaclava</li> <li>• Marlborough Street, Balaclava</li> <li>• Chapel Street, St Kilda between Brighton Road and Carlisle Street</li> </ul>	<p>VicSES to give priority response for essential services</p> <p>Tram services stop trams at a water depth of 10cm, tramways maintenance crews attend to resolve flooding problem</p> <p>Council to provide road closure signage if required.</p>
<p>20mm in 10 mins; 33mm in 30 mins; 41mm in 1 hour; 50mm in 2 hours; 56mm in 3 hours; or 69mm in 6 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This</p>	<p>2% AEP (50 year ARI)</p>	<p><b>Properties at Flood Risk (Over Floor)</b></p> <p><b>901 Properties in Total</b></p> <ul style="list-style-type: none"> <li>• 32 Alexandra Street, St Kilda East</li> <li>• 1 &amp; 3 Alfred Street, Balaclava</li> <li>• 24, 28, 30, 32, 34, 38, Units 1-15/39, 40, 42, 44, 46, 48, 50, 52A &amp; Units 1-3/52 Balston Street, Balaclava</li> <li>• 3, 3B, 3A, 25, 27, 28-30, 1/28-30, 29, 29A, 31, 33, 35 &amp; 37 Blanche Street, St Kilda</li> <li>• 3, 4, Units 1-6/23, Units 1-10/30 &amp; 35 Blenheim Street, Balaclava</li> <li>• 2D Bothwell Street, Balaclava</li> <li>• Units 1-4/23, 2/23, 3/23, 4/23, 27, 29, 31, 33, 38, 44 &amp; 54 Camden Street, Balaclava</li> <li>• 2A Carlisle Avenue, Balaclava</li> <li>• 109, 111, 115, 117, 119, 121, 129-131, 1/129-131, 133, 135, 1/135, 139, 141, 143, 145, 147, 147A, 149A, 149-151, 153, 155, 1/155, 157, 1/157, 159, Units 1-7/165, 167, 169, 171, 173, 175, 179, 181, 183, 185, 185A, 189, 191, 191A, 193, 199, 201, 203, 205, 206, 207, 207A, 208-218,</li> </ul>	<p>VicSES to respond as per request by request basis.</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
should be used as a guide only.		<p>209, 211, 213, 215, 217, 219, 220, 1/220, 221, 223, 224, 225-227, 1/232, Units 1-10/232, 234, 236, 238, 239, 239A, 240, 241, 241A, Units 1-3/241, 242, 243, 243A, 244, 245, Units 1-7/246-252, 247, 254, 256, 258, 259, 260, 262, 264-266, 268, 270-272, 271, 271A, 274, 276, 277, 1/277, 279, 280, 281A, 283B, 284, Units 1-4/285, 6/285, Units 11-12/285, Units 14-18/285, 22/285, Units 24-25/285, 26/285A, 286, 287, 287A, 287B, 288, 289, 290, 290A, 291, 292, 1/292, 294, Units 1-2/296, 3/296A, 298, 300, 302, 304-306, Units 1-4/304-306, Units 1-12/320, 322, 322A, 324, 324A, 326, 326A, 328, 328A, 330, 330A &amp; 384 Carlisle Street, Balaclava</p> <ul style="list-style-type: none"> <li>• 99B, 114, 1/114, 116, 118, 118A, 120, 122, 124, Units 1G0-6G0/126, 132, Units 1-5/132, 134, 156A, 156B, 178, 184, 186, 188, 190, 192-194, 3/196, 198, 200, 202, 1/202 &amp; 204 Carlisle Street, St Kilda</li> <li>• 42, 92-98, 100, 102, 104, 106, 122, 1/112, 2/122, 123, 124, 125, 126A, 128-140, Units 1-9/128-140, 10A/128-140, 10B/128-140, Units 11-34/128-140, 141, 141A, 142, 143, 144, 145, 146-150, 149A, 151, 152, 153, 154, 1/154, 155, 157, 159, 161 &amp; 169 Chapel Street, St Kilda</li> <li>• Units 1-11/21, 25, 29 &amp; 33 Chusan Street, Balaclava</li> <li>• Units 1-40/1, 2 &amp; Units 101-107/43 Duke Street, St Kilda</li> <li>• 5 Edward Street, Balaclava</li> <li>• 30A Glen Eira Avenue, Balaclava</li> <li>• 18, 22, 24, 25, 27, 28, 29, 31, 1/31, Units 1-8/33, 35, 1/35, 36 &amp; 38 Greeves Street, St Kilda</li> <li>• 71 &amp; 73 Grosvenor Street, Balaclava</li> <li>• 72 Hotham Street, St Kilda East</li> <li>• 73, Units 1-11/75, Units 1-18/91, Units 1-15/93-95, 99, 153 &amp; 1/153 Hotham Street, Balaclava</li> <li>• 245, 251-253, 255, 257, 259, 261, 265, 267, 269, 1/269, 3/269, 273, 275, 277, 279, 281, 287, 297, 305, Units 1-4/307, 315, Units 1-12/317, 385, 389, 391, 405, 407, 411, 413 &amp; 415 Inkerman Street, Balaclava</li> <li>• 1R/105, 2R/107, Units 101-112/109, 2/162-164, 5/162-164, 183 &amp; Units 1-16/197 Inkerman Street, St Kilda</li> <li>• 248-250, 2/248-250, 258-260, 262, 264, 266, 268, Units 1-2/268, 270, 272, 274, 276, 280, 286, Units 1-10/296, Units 1-16/310, 312, 316, 318, 322, 328, 330, 332, 334, 336, Units 1-9/338-340, 348, 360, 366, 368, 370, 372, 2/376, Units 1-13/378, Units 1-15/380, 382, 384 &amp; Units 1-5/390 Inkerman Street, St Kilda East</li> <li>• 1, 2, 3, 4, 5, 7, 9, 10, 12, 13, 14, 15, 16, 18 Kalymna Grove, St Kilda East</li> <li>• Units 1-2/56, Units 1-12/58 &amp; Units 1-6/62 Lansdowne Road, St Kilda East</li> <li>• 1 &amp; 3 Lyell Street, St Kilda</li> <li>• 7-9 Market Street, St Kilda</li> <li>• 1, 3, 5, 7 &amp; 9 Marlborough Street, Balaclava</li> <li>• Units 1-11/1, Units 1-3/2, 3, 5, 7 &amp; 9 Marne Street, St Kilda East</li> <li>• Units 1-18/1-5, Units 1-4/7 &amp; 13 Martin Street, St Kilda</li> <li>• 1/17, 2/17, 33 &amp; 63-65 Nelson Street, Balaclava</li> <li>• 3, 5, Units 1-6/6, 7, 8, 9, 13, 14, 15, 22 &amp; 26A Nightingale Street, Balaclava</li> <li>• 19, 27, 1/29 &amp; 2/29 Orange Grove, Balaclava</li> <li>• 287 Orrong Road, St Kilda East</li> <li>• 14, 1/14, 16, 1/16, 18, 1/18, 22-24 &amp; 25-27 Pakington Street, St Kilda</li> <li>• Units 1-6/33 Prentice Street, St Kilda East</li> </ul>	<p>VicSES to give priority to essential services.</p> <p>Tram services stop trams at a water depth of</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 1, 2, 3, 4, 6, 7, 9, 9A, 11, 13-15, 19A, 19B, 23, 25 &amp; 27 Rosamond Street, Balaclava</li> <li>• 4R/306A, 113/308, 114/308, 3R/310, 344, 366, 374, 1/376, 378, 380, 384, 388, 1/390, 392, 394, 398, 398A &amp; 400 St Kilda Road, St Kilda</li> <li>• 54 &amp; 58 Sycamore Grove, Balaclava</li> <li>• 5, 1/6, 2/6, Units 1-12/9-11, Units 1-4/12, 17, Units 1-2/18, 19, Units 1-2/20 &amp; Units 1-4/24 Vale Street, St Kilda</li> <li>• 2, 8 &amp; 10 Wenden Grove, St Kilda East</li> <li>• Units 1-4/93 &amp; Units 1-4/110 Westbury Street, Balaclava</li> <li>• 1, 2, 3, 4, 5, 6, 7, 8, 9, Units 1-8/10, 11, 12, 12A, 14, 16 &amp; 20 Wilgah Street, St Kilda East</li> <li>• 16-20, 21, 23, Units 1-3/27, 36, 38, 40 &amp; 40A William Street, Balaclava</li> <li>• 31 Woodstock Street, Balaclava</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• St Kilda Primary School on Brighton Road, St Kilda flooding in sports ground and yard</li> <li>• Christian Brothers' College (Balaclava Campus) on Carlisle Street, Balaclava likely flooded over floor</li> </ul> <p><b>Essential Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• The Sandringham Railway Line at Ripponlea Station</li> <li>• St Kilda Police Station on Chapel Street, St Kilda likely flooded over floor and experience access issues along Chapel Street between Brighton Road and Inkerman Street</li> <li>• Port Phillip Council Town Hall Car Park flooded</li> <li>• Windsor Ambulance Station on Pakington Street, St Kilda likely flooded over floor</li> <li>• Tram Services along Carlisle Street, Routes 3 &amp; 79 likely impacted by flooding along Carlisle Street between Brighton Road, St Kilda and Balaclava Railway Station</li> <li>• Tram Services along Chapel Street, Routes 78 &amp; 79 likely impacted by flooding along Chapel Street between Brighton Road, St Kilda and Inkerman Street</li> </ul> <p><b>Water Over Road (Over 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>• Wenden Grove, St Kilda East</li> <li>• Lansdowne Road, St Kilda East</li> <li>• Kalymna Grove, St Kilda East</li> <li>• Inkerman Street, St Kilda East between Hotham Road and Orrong Road</li> <li>• Camden Street, St Kilda East</li> <li>• William Street, Balaclava</li> <li>• Stuart Street, Balaclava</li> <li>• Sycamore Grove, Balaclava west of Glen Eira Ave</li> <li>• Woodstock Street, Balaclava</li> <li>• Nightingale Street, Balaclava</li> <li>• Rosamond Street, Balaclava</li> <li>• Marlborough Street, Balaclava</li> <li>• Chapel Street, St Kilda between Brighton Road and Inkerman Street</li> <li>• Carlisle Street, St Kilda between Brighton Road and Balaclava Railway Station</li> <li>• Duke Street, St Kilda</li> </ul>	<p>10cm, tramways maintenance crews attend to resolve flooding problem</p> <p>Council to provide road closure signage if required.</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Martin Street, St Kilda</li> <li>• Pakington Street, St Kilda</li> <li>• Market Street, St Kilda</li> <li>• Lyell Street, St Kilda</li> <li>• Blanche Street, St Kilda</li> <li>• Vale Street, St Kilda</li> <li>• Greeves Street, St Kilda</li> </ul>	
<p>23mm in 10 mins; 38mm in 30 mins; 47mm in 1 hour; 57mm in 2 hours; 63mm in 3 hours; or 78mm in 6 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>1% AEP (100 year ARI)</p>	<p><b>Properties at Flood Risk (Over Floor)</b> <b>1,404 Properties in Total</b></p> <ul style="list-style-type: none"> <li>• 78A, 80B, 80A, 82A, 82B, 101/82, 201/82, 84-86, Units 1-10/88 &amp; 90 Acland Street, St Kilda</li> <li>• Units G01-G09/2, 1/3, 5, 7 &amp; 9 Albert Street, St Kilda</li> <li>• 30 &amp; 32 Alexandra Street, St Kilda East</li> <li>• 1 &amp; 3 Alfred Street, Balaclava</li> <li>• Units 1-14/3, 22, 24, 26, 28, 30, 32, 33, 34, 38, Units 1-15/39, 40, 42, 44, 46, 48, 50, 52A &amp; Units 1-3/52 Balston Street, Balaclava</li> <li>• 1/1, 2/1, 3, 3B, 3A, Db1/8, Db2/8, Db3/8, 7/8, 9/8, 25, 27, 28-30, 1/28-30, 29, 29A, 31, 33, 1/34, 2/34, 35, 37, 38, 39, 39A, 41, 43, 47, 49, 49A &amp; 52 Blanche Street, St Kilda</li> <li>• 3, 4, 5, Units 1-6/23, Units 1-10/30 &amp; 35 Blenheim Street, Balaclava</li> <li>• 2D Bothwell Street, Balaclava</li> <li>• Units 1-4/23, 2/23, 3/23, 4/23, 27, 29, 31, 33, 35, 36, 38, 40, 44 &amp; 54 Camden Street, Balaclava</li> <li>• 2A &amp; Units 1-7/22 Carlisle Avenue, Balaclava</li> <li>• 109, 111, 115, 117, 119, 121, 123-127, 129-131, 1/129-131, 133, 135, 1/135, 137, 139, 141, 143, 145, 147, 147A, 149A, 149-151, 153, 155, 1/155, 157, 1/157, 159, Units 1-7/165, 167, 169, 171, 173, 175, 179, 181, 183, 185, 185A, 189, 191, 191A, 193, 199, 201, 203, 205, 206, 207, 207A, 208-218, 209, 211, 213, 215, 217, 219, 220, 1/220, 221, 223, 224, 225-227, 229, 231-233, 1/232, Units 1-10/232, 234, 235, 236, 237, 238, 239, 239A, 240, 241, 241A, Units 1-3/241, 242, 243, 243A, 244, 245, Units 1-7/246-252, 247, 254, 255, 255A, 256, 257, 258, 259, 260, 262, 263-265, Units 4-9/263, 264-266, 267, 268, 269, 270-272, 271, 271A, 274, 275, 276, 277, 1/277, 279, 280, 281, 281A, 283B, 284, Units 1-4/285, 6/285, Units 11-12/285, Units 14-18/285, 22/285, Units 24-25/285, 26/285A, 286, 287, 287A, 287B, 288, 289, 290, 290A, 291, 292, 1/292, 294, Units 1-2/296, 3/296A, 298, 300, 302, 304-306, Units 1-4/304-306, 308, 316, 1/316, Units 1-12/320, 322, 322A, 324, 324A, 326, 326A, 328, 328A, 330, 330A &amp; 384 Carlisle Street, Balaclava</li> <li>• Units 1-9/2, 6-8, 11-13, 99B, 114, 1/114, 116, 118, 118A, 120, 122, 124, Units 1G0-6G0/126, 130, 132, Units 1-5/132, 134, 156A, 156B, 162, 162A, 168, 172, 178, 180, 184, 186, 188, 190, 192-194, 3/196, 198, 200, 202, 1/202 &amp; 204 Carlisle Street, St Kilda</li> <li>• 42, 54-56, 54, 56, 92-98, 100, 102, 104, 106, 121, 122, 1/112, 2/122, 123, 124, 125, 126A, 127, 128-140, Units 1-9/128-140, 10A/128-140, 10B/128-140, Units 11-34/128-140, 141, 141A, 142, 143, 144, 145, 146-150, 149A, 151, 152, 153, 154, 1/154, 155, 157, 159, 161 &amp; 169 Chapel Street, St Kilda</li> <li>• 13, Units 1-11/21, 25, 29, 33 &amp; 35 Chusan Street, Balaclava</li> </ul>	<p>VicSES to respond as per request by request basis.</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 1 Depot Lane, St Kilda</li> <li>• Units 1-40/1, 2, 5-7, 37 &amp; Units 101-107/43 Duke Street, St Kilda</li> <li>• 5 Edward Street, Balaclava</li> <li>• 1 Elm Grove, Balaclava</li> <li>• 30A Glen Eira Avenue, Balaclava</li> <li>• Units 101C-113C/3, Units 101E-107E/5, Units 101F-110F/7, 18, 20, 22, 24, 25, 26, 27, 28, 29, 30, 31, 1/31, Units 1-8/33, 34, 35, 1/35, 36, 38, 40 &amp; 44 Greeves Street, St Kilda</li> <li>• 69, 71, Units 1-9/72, 73, 75, Units 1-11/81-83, Units 1-9/82 &amp; Units 1-12/85 Grosvenor Street, Balaclava</li> <li>• 5, 14, 14A, 17, 19, 20, 22, 31, 39, 41, 56A &amp; 56B Havelock Street, St Kilda</li> <li>• 72 Hotham Street, St Kilda East</li> <li>• 73, Units 1-11/75, Units 1-17/77, 85, Units 1-18/91, Units 1-15/93-95, Units 1-15/97, 99, 153, 1/153, Units 1-5/165 &amp; Units 1-9/171 Hotham Street, Balaclava</li> <li>• 245, 251-253, 255, 257, 259, 261, 263, 265, 267, 269, 1/269, 3/269, 273, 275, 277, 279, 281, 287, 297, 305, Units 1-4/307, 315, Units 1-12/317, 353, 355, 385, 389, 391, 401, 403, 405, 407, 409, 411, 413 &amp; 415 Inkerman Street, Balaclava</li> <li>• Units 21-23/21, Units 101B-110B/21, Units 101A-111A/33, 1R/105, 2R/107, Units 101-112/109, 133, Units 101-135/135, 137, 2/162-164, 5/162-164, 183 &amp; Units 1-16/197 Inkerman Street, St Kilda</li> <li>• 248-250, 2/248-250, 258-260, 262, 264, 266, 268, Units 1-2/268, 270, 272, 274, 276, 280, 286, Units 1-4/290A, Units 1-10/296, Units 1-4/298, 2/300-302, Units 1-16/310, 312, 316, 318, 320, 322, 328, 330, 332, 334, 336, Units 1-9/338-340, 348, 358, 360, 366, 368, 370, 372, 2/376, Units 1-13/378, Units 1-15/380, 382, 384 &amp; Units 1-5/390 Inkerman Street, St Kilda East</li> <li>• Units 1-13/4 Irwell Street, St Kilda</li> <li>• 1, 2, 3, 4, 5, 7, 9, 10, 12, 13, 14, 15, 16, 18 Kalymna Grove, St Kilda East</li> <li>• Units 1-2/56, Units 1-12/58 &amp; Units 1-6/62 Lansdowne Road, St Kilda East</li> <li>• 1 &amp; 3 Lyell Street, St Kilda</li> <li>• 1-5 &amp; 7-9 Market Street, St Kilda</li> <li>• 1, 3, 5, 7 &amp; 9 Marlborough Street, Balaclava</li> <li>• Units 1-11/1, Units 1-3/2, 3, 5, 7 &amp; 9 Marne Street, St Kilda East</li> <li>• Units 1-18/1-5, Units 1-4/7, Units G01-G05/12 &amp; 13 Martin Street, St Kilda</li> <li>• 1/17, 2/17, 33 &amp; 63-65 Nelson Street, Balaclava</li> <li>• 3, 5, Units 1-6/6, 7, 8, 9, 11, 13, 14, 15, 17, 19, 21, 22, 24 &amp; 26A Nightingale Street, Balaclava</li> <li>• 19, 22, Units 1-6/22, 25, 27, 1/29, 2/29, &amp; 30 Orange Grove, Balaclava</li> <li>• 287 &amp; 289 Orrong Road, St Kilda East</li> <li>• 9-11, 14, 1/14, 16, 1/16, 18, 1/18, 19, 21-23, 22-24, 25-27, 31A &amp; 37 Pakington Street, St Kilda</li> <li>• Units 1-6/33 Prentice Street, St Kilda East</li> <li>• 1, 2, 3, 4, 6, 7, 8, 9, 9A, 11, 13-15, 17, 19A, 19B, 23, 25 &amp; 27 Rosamond Street, Balaclava</li> <li>• 23 Shakespeare Grove, St Kilda</li> </ul>	<p>VicSES to give priority to essential services.</p> <p>Tram services stop trams at a water depth of 10cm, tramways maintenance crews attend to resolve flooding problem</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 4R/306A, 113/308, 114/308, 3R/310, Units 1-10/322-332, 344, 350, 352-360, 362-364, 366, 374, 1/376, 378, 380, 382, 384, 388, 1/390, 392, 394, 396, 396A, 398, 398A, 400, Units 1-9/400, Units 13-33/400 &amp; 50/400 St Kilda Road, St Kilda</li> <li>• 49, 51, 53, 54, 55, 57 &amp; 58 Sycamore Grove, Balaclava</li> <li>• 1, 5, 1/6, 2/6, 7, Units 1-12/9-11, Units 1-4/12, 17, Units 1-2/18, 19, Units 1-2/20, 23, Units 1-4/24, Units 1-4/26, 28, 29, 30, 30A, Units 1-9/32, 33, 35 &amp; 44 Vale Street, St Kilda</li> <li>• 2, 8 &amp; 10 Wenden Grove, St Kilda East</li> <li>• Units 1-4/93, Units 1-9/102, Units 1-8/104 &amp; Units 1-4/110 Westbury Street, Balaclava</li> <li>• 1, 2, 3, 4, 5, 6, 7, 8, 9, Units 1-8/10, 11, 12, 12A, 14, 16 &amp; 20 Wilgah Street, St Kilda East</li> <li>• 2, 3, 3A, 4, 6-8, 10, 14, 16-20, 21, 22, 23, 24-26, 25, Units 1-3/27, 34, 1/34, 36, 38, 40, 40A, 42, 70, 72 &amp; 74 William Street, Balaclava</li> <li>• 31 Woodstock Street, Balaclava</li> </ul> <p><b>Community Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• St Kilda Primary School on Brighton Road, St Kilda flooding in sports ground and yard</li> <li>• Christian Brothers' College (Balaclava Campus) on Carlisle Street, Balaclava likely flooded over floor</li> </ul> <p><b>Essential Infrastructure Flooded</b></p> <ul style="list-style-type: none"> <li>• The Sandringham Railway Line at Ripponlea Station</li> <li>• St Kilda Police Station on Chapel Street, St Kilda likely flooded over floor and experience access issues along Chapel Street between Brighton Road and Inkerman Street</li> <li>• Port Phillip Council Town Hall Car Park flooded</li> <li>• Windsor Ambulance Station on Pakington Street, St Kilda likely flooded over floor</li> <li>• Tram Services along Carlisle Street, Routes 3 &amp; 79 likely impacted by flooding along Carlisle Street between Brighton Road, St Kilda and Balaclava Railway Station</li> <li>• Tram Services along Chapel Street, Routes 78 &amp; 79 likely impacted by flooding along Chapel Street between Brighton Road, St Kilda and Inkerman Street</li> </ul> <p><b>Water Over Road (Over 300mm Depth)</b></p> <ul style="list-style-type: none"> <li>• Wenden Grove, St Kilda East</li> <li>• Lansdowne Road, St Kilda East</li> <li>• Kalymna Grove, St Kilda East</li> <li>• Inkerman Street, St Kilda East between Chapel Street and Orrong Road</li> <li>• Camden Street, St Kilda East</li> <li>• William Street, Balaclava</li> <li>• Stuart Street, Balaclava</li> <li>• Sycamore Grove, Balaclava west of Glen Eira Ave</li> <li>• Woodstock Street, Balaclava</li> <li>• Nightingale Street, Balaclava</li> <li>• Rosamond Street, Balaclava</li> <li>• Marlborough Street, Balaclava</li> <li>• Chapel Street, St Kilda between Brighton Road and Inkerman Street</li> </ul>	<p>Council to provide road closure signage if required.</p>

Design Rainfall Depths (mm) – <i>Indication of Possible Flooding</i>	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Carlisle Street, St Kilda between Brighton Road and Hotham Street</li> <li>• Duke Street, St Kilda</li> <li>• Martin Street, St Kilda</li> <li>• Pakington Street, St Kilda</li> <li>• Market Street, St Kilda</li> <li>• Lyell Street, St Kilda</li> <li>• Blanche Street, St Kilda</li> <li>• Vale Street, St Kilda</li> <li>• Greeves Street, St Kilda</li> <li>• Barkly Street, St Kilda between Carlisle Street and Inkerman Street</li> <li>• Havelock Street, St Kilda</li> <li>• Irwell Street, St Kilda</li> </ul>	

Table C2.6 – Breakdown of possible consequences at various rainfall intensities around St Kilda, Balaclava and St Kilda East with operational considerations

# APPENDIX C3 – SOUTH MELBOURNE, PORT MELBOURNE, ALBERT PARK, MIDDLE PARK & ST KILDA WEST FLOOD EMERGENCY PLAN

## Overview of Flooding Consequences

This Summary table is generated from Victorian Government data. The State of Victoria does not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for error, loss or damage which may arise from reliance upon it. All persons access this information should make appropriate enquiries to assess the currency of the data.

Summary of Consequences in a 1% AEP (100yr ARI) flash flood around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West

Property					
<b>Properties</b>	<b>104</b>				
Residential	82				
Commercial	22				
Industrial	0				
Public Land	0				
Rural	0				
Community Infrastructure					
Health Facilities	0		Child Care / Kindergartens	1	Barring Djinang Kinder
Care Facilities	0		Community Venues	0	
Retirement Villages	0		Places of Worship	0	
Schools / Colleges	1	South Melbourne Primary School	Prisons	0	
Essential Infrastructure					
Major Roads	4	Albert Road; Clarendon St; Kings Way; Montague Street; Williamstown Road; Victoria Ave;	Police Stations	0	
Major Rail	0		Government Buildings	0	
Bus & Tram Routes	2	Routes 1 & 55	Sewerage Facilities	2	Emergency Relief Points
Power Facility	0		Levees	0	
Comms Services	0		Drainage Facilities	1	Pumping Station
Emergency Services	1	Port Melb Ambulance Station	Airports / Airfields	0	
Tourism / Recreation					
Sports Facilities	0		Caravan Parks	0	
Recreation Facilities	0		Camping Grounds	0	
Government Boundaries					
Local Gov't Areas	1	Port Phillip	CMA	1	Port Phillip & Westernport
Adjacent LGAs	1	City of Melbourne	CFA District	0	
SES Unit Area	1	Port Phillip	MFB District	1	Southern

Table C3.1 – Consequence Summary of 1% AEP flood around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West

South Melbourne & Port Melbourne is an area of relatively flat terrain close to sea level. Because of that, flash flooding and storm surges are a risk as the drainage network struggles to discharge stormwater into Port Phillip Bay to the south or the Yarra River to the north.

Key Infrastructure at risk is the flooding of Kings Way which was forced to close most recently in March 2010 during a greater than 1%AEP flash flood event affecting traffic, as well as the tram route that uses the roadway. The York Street underpass in South Melbourne floods in minor rainfall events, as well Gladstone Lane near the Montague Street underpass.

## Warning Times

Whilst there are hydrographic/telemetry stations (river gauges) within the municipality, Melbourne Water does not provide any flood warning service at this point, due to the generally short warning times available.

Melbourne Water Hydrographic Monitoring Station	Station No.	Location	Stream Level	Rain Gauge	Tide Level Gauge	Melway Reference
Docklands	586100	Near Jim Stynes Bridge, north bank of Yarra River, Docklands		✓		32 D10
St Kilda Marina	229670A	St Kilda Marina, Marine Pde, St Kilda		✓	✓	57 K12
Yarra River at Spencer Street, Southbank	229663A	Yarra Promenade at Crown Entertainment Complex, Southbank			✓	43 F10

Table C3.2 – Hydrographic Monitoring Stations servicing South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West

These Gauges may provide some warning of expected flooding. See the Melbourne Water website for more information on these gauges: <http://www.melbournewater.com.au/waterdata/rainfallandriverveldata/Pages/Rainfall-and-river-level-new.aspx>. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

Areas of Flood Risk



Figure C3 – Areas of flood risk around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West in the City of Port Phillip

## Properties at Flood Risk

Properties listed in the table below are at risk from flooding over-floor around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West during a 1% AEP flood event. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Ds-City of Port Phillip (CMPS&F Pty Ltd, April 1998) and the Port Phillip Bay Coastal Inundation (Cardno, 2015) flood mapping and risk assessment programs. Note that any multi-lot properties situated above ground floor likely impacted by isolation only with flooding on ground floor impacting access to common areas and/or carpark and storage facilities. Information on above ground-floor properties is not available in this list.

*This Property Flood Risk Table is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it.*

Properties at risk from Flooding Over-Floor during a 1% AEP event				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
88-94	Albert Road	South Melbourne	Hanna St Main Drain	Type
102-112	Albert Road	South Melbourne	Hanna St Main Drain	Type
1/102-112	Albert Road	South Melbourne	Hanna St Main Drain	Type
85	Bank Street	South Melbourne	Hanna St Main Drain	Type
89	Bank Street	South Melbourne	Hanna St Main Drain	Type
275	Canterbury Road	St Kilda West	Cowderoy St Main Drain	Type
278	Canterbury Road	St Kilda West	Cowderoy St Main Drain	Type
307	Canterbury Road	St Kilda West	Cowderoy St Main Drain	Type
308	Canterbury Road	St Kilda West	Cowderoy St Main Drain	Type
18-28	Chessell Street	Southbank	Hanna St Main Drain	Type
16	Cobden Street	South Melbourne	Hanna St Main Drain	Type
18	Cobden Street	South Melbourne	Hanna St Main Drain	Type
20	Cobden Street	South Melbourne	Hanna St Main Drain	Type
22	Cobden Street	South Melbourne	Hanna St Main Drain	Type
22A	Cobden Street	South Melbourne	Hanna St Main Drain	Type
24	Cobden Street	South Melbourne	Hanna St Main Drain	Type
26	Cobden Street	South Melbourne	Hanna St Main Drain	Type
29-31	Cobden Street	South Melbourne	Hanna St Main Drain	Type
162-170	Coventry Street	South Melbourne	Hanna St Main Drain	Type
6	Deakin Street	St Kilda West	Cowderoy St Main Drain	Type
127	Dorcas Street	South Melbourne	Hanna St Main Drain	Type
116	Farrell Street	Port Melbourne	Princes St Main Drain	Type
123	Farrell Street	Port Melbourne	Princes St Main Drain	Type
331	Howe Parade	Port Melbourne	Rosny St Main Drain	Type
333	Howe Parade	Port Melbourne	Rosny St Main Drain	Type
335	Howe Parade	Port Melbourne	Rosny St Main Drain	Type
337	Howe Parade	Port Melbourne	Rosny St Main Drain	Type
70	Ingles Street	Port Melbourne	Cruikshank St Main Drain	Type
76	Ingles Street	Port Melbourne	Cruikshank St Main Drain	Type
78	Ingles Street	Port Melbourne	Cruikshank St Main Drain	Type

Properties at risk from Flooding Over-Floor during a 1% AEP event

Properties at risk from Flooding Over-Floor during a 1% AEP event				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
194-210	Kings Way	South Melbourne	Hanna St Main Drain	Type
210A	Kings Way	South Melbourne	Hanna St Main Drain	Type
308-310	Kings Way	South Melbourne	Hanna St Main Drain	Type
311	Kings Way	South Melbourne	Hanna St Main Drain	Type
320	Kings Way	South Melbourne	Hanna St Main Drain	Type
322	Kings Way	South Melbourne	Hanna St Main Drain	Type
346-348	Kings Way	South Melbourne	Hanna St Main Drain	Type
21	Lalor Street	Port Melbourne	Esplanade West Main Drain	Type
25	Lalor Street	Port Melbourne	Esplanade West Main Drain	Type
27	Lalor Street	Port Melbourne	Esplanade West Main Drain	Type
30	Loch Street	St Kilda West	Cowderoy St Main Drain	Type
38	Loch Street	St Kilda West	Cowderoy St Main Drain	Type
31	Napier Street	South Melbourne	Hanna St Main Drain	Type
35	Napier Street	South Melbourne	Hanna St Main Drain	Type
37	Napier Street	South Melbourne	Hanna St Main Drain	Type
174	Nott Street	Port Melbourne	Esplanade West Main Drain	Type
46	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
48	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
50	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
51	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
52	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
54	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
55	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
56	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
57	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
61-65	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
1/67-69	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
2/67-69	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
3/67-69	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
4/67-69	Palmerston Crescent	South Melbourne	Hanna St Main Drain	Type
73	Queens Road	Melbourne	Cowderoy St Main Drain	Type
77	Queens Road	Melbourne	Cowderoy St Main Drain	Type
3	Richardson Street	Albert Park	Richardson St Main Drain	Type
5	Richardson Street	Albert Park	Richardson St Main Drain	Type
23	Richardson Street	Albert Park	Richardson St Main Drain	Type
25	Richardson Street	Albert Park	Richardson St Main Drain	Type
168	Ross Street	Port Melbourne	Princes St Main Drain	Type
173	Ross Street	Port Melbourne	Princes St Main Drain	Type
186	Ross Street	Port Melbourne	Princes St Main Drain	Type
47	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
48	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
49	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
51	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
52	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type

Properties at risk from Flooding Over-Floor during a 1% AEP event				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
53	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
54	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
56	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
57	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
58	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
59	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
60	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
61	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
62	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
63	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
64	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
65	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
66	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
67	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
68	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
69	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
70	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
74	Spring Street	Port Melbourne	Cruikshank St Main Drain	Type
456	St Kilda Road	Melbourne	Hanna St Main Drain	Type
608	St Kilda Road	Melbourne	Cowderoy St Main Drain	Type
610	St Kilda Road	Melbourne	Cowderoy St Main Drain	Type
612-616	St Kilda Road	Melbourne	Cowderoy St Main Drain	Type
622	St Kilda Road	Melbourne	Cowderoy St Main Drain	Type
97	St Vincent Street	Albert Park	Richardson St Main Drain	Type
45	Stead Street	South Melbourne	Hanna St Main Drain	Type
10-12	York Street	South Melbourne	Hanna St Main Drain	Type
15	York Street	South Melbourne	Hanna St Main Drain	Type
17-19	York Street	South Melbourne	Hanna St Main Drain	Type
21-23	York Street	South Melbourne	Hanna St Main Drain	Type
25-27	York Street	South Melbourne	Hanna St Main Drain	Type
<b>Total</b>				
<b>104</b>				

Table C3.3 – Properties at risk of flooding around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West

## Isolation

No major isolation risks exist for areas around South Melbourne & Port Melbourne during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

## ESSENTIAL INFRASTRUCTURE

- **Tram Services** along Kings Way (Route 55) impacted with flooding along Kings Way and Queens Bridge Street between Park Street & Queens Bridge in a 2% AEP event.

- The **Sewer Emergency Relief Point** on Princes Street Drain, south side of Graham Street near Princes Street, Port Melbourne is likely within floodwaters in a 1% AEP flash flood event.
- **Port Melbourne Ambulance Station** on Brady Street, South Melbourne likely has access issues along Brady Street & Boundary Street during a 1% AEP Storm Surge event.

During an event, see the Public Transport Victoria's Website for details on delays or alterations to services. <http://ptv.vic.gov.au/live-travel-updates/>. A map of Public Transport routes within the City of Port Phillip is available via the website at: [https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/45\\_Port\\_Phillip\\_LAM.pdf](https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/45_Port_Phillip_LAM.pdf)

Apart from the roads outlined below, all other essential infrastructure and services areas around South Melbourne and Port Melbourne are expected to remain unaffected by flooding during a 1% AEP (100yr ARI) event.

## Road Closures

The following roads are subject to closure during flooding around South Melbourne & Port Melbourne. Check the VicRoads website for more details: <http://alerts.vicroads.vic.gov.au/>

VicRoads Roads flooded in a 1% AEP (100yr ARI) event	
•	Albert Road, Albert Park at Light Rail underpass
•	Clarendon Street, South Melbourne between Park Street and Albert Road
•	Kings Way, South Melbourne from Albert Road to West Gate Freeway Underpass
•	Montague Street, South Melbourne at Light Rail Underpass
•	Victoria Avenue, Albert Park between Richardson St and Barrett St
•	Williamstown Road, Port Melbourne at Salmon Street

Table C3.4 – VicRoads Possible Road Closures during a flooding event

Port Phillip City Council Roads flooded in a 1% AEP (100yr ARI) event			
<b>ALBERT PARK</b>	• Evans Street	• Ross Street	• Gladstone Lane
• Henderson Street	• Farrell Street	• Salmon Street	• Gladstone Place
• Iffla Street	• Gelibrand Road	• Smith Street	• Gladstone Street
• Little St Vincent Street	• Howe Parade	• Spring Street	• Kerr Street
• Richardson Street	• Ingles Street	• Station Street	• Kings Place
• St Vincent Street	• Lalor Street	• The Bend	• Meaden Street
<b>PORT MELBOURNE</b>	• Leith Crescent	• The Boulevard	• Napier Street
• Davies Street	• Lyons Street	<b>SOUTH MELBOURNE</b>	• Palmerston Crescent
• Edwards Avenue	• Princes Street	• Chessell Street	• Tope Street
• Emery Street	• Raglan Street	• Cobden Street	• York Street
• Esplanade Place	• Rosny Street	• Ferrars Street	

Table C3.5 – Port Phillip City Council Possible Road Closures during a flooding event

## Flood Mitigation

### Pumping Stations

Melbourne Water Pumping Station	On Drain / Waterway	Location	No. of Pumps	Capacity	Consequence of Failure	Melway Reference
Port Melbourne	Esplanade West Main Drain	East side of Esplanade West approximately 50m north of Rouse St, Port Melbourne	4	7,000 L/s	Major local flooding in Port Melbourne	2J E7

Table C3.6 – Melbourne Water Pumping Stations around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West

No formal Retarding Basins or Levees exist around South Melbourne & Port Melbourne.

### Sewerage Infrastructure

Sewerage Infrastructure of note during a severe flood event located around South Melbourne & Port Melbourne are contained within the following table.

#### Sewer Emergency Relief Points

On Drain / Waterway	Bank / Side of Waterway	Owner	Location	Melway Reference
Rosny Street Drain	N/A	Melbourne Water	Howe Parade at Rosny Street, Port Melbourne	56 J2
Princes Street Drain	N/A	Melbourne Water	South side of Graham Street near Princes Street, Port Melbourne	2J C5
McGregor Street Main Drain	N/A	Melbourne Water	Corner of McGregor Street & Patterson Street, St Kilda West	2N E1

Table C3.7 – Sewer Emergency Relief Points around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West

### Command, Control and Coordination

VICSES will assume overall control of the response to flood incidents. Other agencies will be requested to support operations as detailed in this Plan. Control and coordination of a flood incident shall be carried out at the lowest effective level and in accordance with the State Emergency Response Plan (EMMV Part 3). During significant events, VICSES will conduct incident management using multi-agency resources.

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## **Flood Impacts & Operational Considerations (Intelligence Cards)**

The tables on the following pages provide a breakdown of the possible consequences of flooding around South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West at various rain totals. These tables are to be used only as a guide as no two floods at a location will have identical impacts.

Intelligence Cards have been included for the following locations:

- South Melbourne, Port Melbourne, Albert Park, Middle Park and St Kilda West Stormwater Drains
- St Kilda Marina, Port Phillip Bay for coastal flooding around South Melbourne, Port Melbourne, Albert Park and Middle Park

# FLOOD INTELLIGENCE CARD – SOUTH MELBOURNE, PORT MELBOURNE, ALBERT PARK, MIDDLE PARK & St KILDA WEST (UNGAUGED)

Version 3 – February 2019



Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.

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CLOSEST RAIN GAUGE	<b>Docklands</b>
LOCATION	<b>Near Jim Stynes Bridge, north bank of Yarra River, Docklands</b>
MELWAY REF:	<b>2E H8</b>

GAUGE NUMBER	<b>586100</b>
GAUGE TYPE	<b>Rain</b>
TELEMETRIC/MANUAL	<b>Telemetric</b>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
<p>24mm in 10 mins; 39mm in 30 mins; 48mm in 1 hour; 58mm in 2 hours; 65mm in 3 hours; or 80mm in 6 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	1% AEP (100 year ARI)	<p><b>Properties at Flood Risk</b> <b>104 Properties in Total</b></p> <ul style="list-style-type: none"> <li>• <b>Cowderoy St Main Drain</b></li> <li>• 275, 278, 307 &amp; 308 Canterbury Road, St Kilda West</li> <li>• 6 Deakin Street, St Kilda West</li> <li>• 30 &amp; 38 Loch Street, St Kilda West</li> <li>• 73 &amp; 77 Queens Road, Melbourne</li> <li>• 608, 610, 612-616, 622 &amp; 622 St Kilda Road, Melbourne</li> <li>• <b>Cruikshank St Main Drain</b></li> <li>• 70, 76 &amp; 78 Ingles Street, Port Melbourne</li> <li>• 47, 48, 49, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70 &amp; 74 Spring Street, Port Melbourne</li> <li>• <b>Esplanade West Main Drain</b></li> <li>• 21, 25 &amp; 27 Lalor Street, Port Melbourne</li> <li>• 174 Nott Street, Port Melbourne</li> <li>• <b>Hanna St Main Drain</b></li> <li>• 88-94, 102-112 &amp; 1/102-112 Albert Road, South Melbourne</li> <li>• 85 &amp; 89 Bank Street, South Melbourne</li> <li>• 18-28 Chessell Street, Southbank</li> <li>• 16, 18, 20, 22, 22A, 24, 26 &amp; 29-31 Cobden Street, South Melbourne</li> <li>• 162-170 Coventry Street, South Melbourne</li> </ul>	<p>VicSES to respond as per request by request basis.</p> <p>Tram services stop trams at a water depth of 10cm, tramways maintenance crews attend to resolve flooding problem</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• 127 Dorcas Street, South Melbourne</li> <li>• 194-210, 210A, 308-310, 311, 320, 322 &amp; 346-348 Kings Way, South Melbourne</li> <li>• 31, 35 &amp; 37 Napier Street, South Melbourne</li> <li>• 46, 48, 50, 51, 52, 54, 55, 56, 57, 61-65 &amp; Suites 1-4/67-69 Palmerston Crescent, South Melbourne</li> <li>• 456 St Kilda Road, Melbourne</li> <li>• 45 Stead Street, South Melbourne</li> <li>• 10-12, 15, 17-19, 21-23 &amp; 25-27 York Street, South Melbourne</li> <li>• <b>Princes St Main Drain</b></li> <li>• 116 &amp; 123 Farrell Street, Port Melbourne</li> <li>• 168, 173 &amp; 186 Ross Street, Port Melbourne</li> <li>• <b>Richardson St Main Drain</b></li> <li>• 3, 5, 23 &amp; 25 Richardson Street, Albert Park</li> <li>• 97 St Vincent Street, Albert Park</li> <li>• <b>Rosny St Main Drain</b></li> <li>• 331, 333, 335 &amp; 337 Howe Parade, Port Melbourne</li> <li>• <b>Community Infrastructure Impacted</b></li> <li>• South Melbourne Primary School on Ferrars St likely has access restricted with flooding on surrounding roads.</li> <li>• Barring Djinang Kindergarten on Ferrars St likely has access restricted with flooding on surrounding roads.</li> <li>• <b>Essential Infrastructure Impacted</b></li> <li>• Tram Services along Kings Way (Route 55) impacted with flooding along Kings Way and Queens Bridge Street between Park Street and Queens Bridge</li> <li>• The Sewer Emergency Relief Structure on Princes Street Drain, south side of Graham Street near Princes Street, Port Melbourne is likely within floodwaters</li> <li>• <b>Water Over Road (Over 300mm Depth)</b></li> <li>• Albert Road, Albert Park at Light Rail underpass</li> <li>• Kings Way, South Melbourne from Albert Road to West Gate Freeway Underpass</li> <li>• Chessell Street, South Melbourne</li> <li>• Tope Street, South Melbourne between Chessell Street and York Street</li> <li>• Napier Street, South Melbourne near Kings Way</li> <li>• Cobden Street, South Melbourne near Kings Way</li> <li>• Kings Place, South Melbourne</li> <li>• Palmerston Crescent, South Melbourne</li> <li>• Meaden Street, South Melbourne</li> <li>• Gladstone Street, South Melbourne</li> <li>• Ferrars Street, South Melbourne between Gladstone Street and Thistlethwaite Street</li> <li>• Kerr Street, South Melbourne</li> <li>• Gladstone Place, South Melbourne</li> </ul>	<p>South East Water to monitor possible contamination of flood waters</p> <p>Council to provide road closure signage if required.</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Gladstone Lane, South Melbourne</li> <li>• Montague Street, South Melbourne at Light Rail Underpass</li> <li>• York Street, South Melbourne at Light Rail Underpass adjacent to South Melbourne Market</li> <li>• Ingles Street, Port Melbourne at Crockford Street</li> <li>• Raglan Street, Port Melbourne at Ross Street, Princes Street and at Lyons Street</li> <li>• Lyons Street, Port Melbourne between Spring Street and Raglan Street</li> <li>• Esplanade Place, Port Melbourne</li> <li>• Spring Street, Port Melbourne</li> <li>• Davies Street, Port Melbourne</li> <li>• Lalor Street, Port Melbourne</li> <li>• Princes Street, Port Melbourne at Pool Street</li> <li>• Station Street, Port Melbourne south of Bridge Street</li> <li>• Evans Street, Port Melbourne between Graham Street and Bridge Street</li> <li>• Ross Street, Port Melbourne between Graham Street and Bridge Street</li> <li>• Farrell Street, Port Melbourne</li> <li>• Salmon Street, Port Melbourne between Plummer Street and Williamstown Road</li> <li>• Smith Street, Port Melbourne</li> <li>• Williamstown Road, Port Melbourne at Salmon Street</li> <li>• Emery Street, Port Melbourne</li> <li>• Edwards Avenue, Port Melbourne</li> <li>• Howe Parade, Port Melbourne</li> <li>• Leith Crescent, Port Melbourne</li> <li>• Rosny Street, Port Melbourne</li> <li>• Gellibrand Road, Port Melbourne</li> <li>• The Bend, Port Melbourne</li> <li>• The Boulevard, Port Melbourne</li> <li>• Richardson Street, Albert Park</li> <li>• St Vincent Street, Albert Park between Richardson Street and Glover Street</li> <li>• Little St Vincent Street, Albert Park</li> <li>• Iffla Street, Albert Park at Glover Street</li> <li>• Henderson Street, Albert Park</li> </ul>	
35mm in 10 mins	6 <sup>th</sup> March 2010 Intense Rainfall Event > 1% AEP (100 year ARI)	<b>Event Summary</b> <ul style="list-style-type: none"> <li>• Kings Way flooded and impassable to traffic between the West Gate Freeway underpass and Albert Road</li> <li>• Houses and Shops flooded along Kings Way around Napier Street with Cars also flooded.</li> </ul>	
50mm in 15 mins	14 <sup>th</sup> December 2018	<b>Event Summary</b> <ul style="list-style-type: none"> <li>• Albert Road, Albert Park at Light Rail underpass flooded</li> </ul>	

Design Rainfall Depths (mm) – <i>Indication of Possible Flooding</i>	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
	Intense Rainfall Event > 1% AEP (100 year ARI)	<ul style="list-style-type: none"> <li>• Albert Park MSAC Light Rail Station pedestrian underpass flooded</li> <li>• Victoria Avenue, Albert Park flooded</li> <li>• Lanes closed on Queens Road, Melbourne at Albert Park Golf Course</li> <li>• Southbound lanes of Kings Way, South Melbourne closed between Park Road and Albert Road</li> <li>• Southbound lanes of Montague Street, South Melbourne flooded at Freeway underpass</li> <li>• Properties flooded in South Melbourne, Middle Park and Port Melbourne</li> </ul>	

Table C3.8 – Breakdown of possible consequences at various rainfall intensities around South Melbourne, Port Melbourne, Albert Park, Middle Park & St Kilda West with operational considerations

# FLOOD INTELLIGENCE CARD – ST KILDA MARINA GAUGE, PORT PHILLIP BAY

Version 3 – February 2019



Note: flood intelligence records are approximations. This is because no two floods at a location, even if they peak at the same height, will have identical impacts. Flood intelligence cards detail the relationship between flood magnitude and flood consequences. More details about flood intelligence and its use can be found in the Australian Emergency Management Manuals flood series.

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LOCATION	St Kilda Marina, Marina Parade, St Kilda
MELWAY REFERENCE:	57 K12
WATERWAY:	Port Phillip Bay
GAUGE NUMBER:	229670A
GAUGE ZERO:	0.00m AHD (Changed from ACD in June 2008)
GAUGE TYPE	Tide Level & Rainfall

MINOR:	N/A
MODERATE:	N/A
MAJOR	N/A
LEVEE HEIGHT:	N/A
TELEMETRIC/MANUAL	Telemetric
HIGHEST RECORDED TIDE:	1.28m (24 <sup>th</sup> June 2014 & 7 <sup>th</sup> November 1994)

Bay Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
1.19m	26 <sup>th</sup> April 2009 High Tide Level	<b>Event Summary</b> <ul style="list-style-type: none"> <li>Strong West to South Westerly winds and low atmospheric pressure conditions caused high tides. 12mm of rain recorded at St Kilda Marina over 48 hours.</li> </ul>	
1.28m	24 <sup>th</sup> June 2014 High Tide Level	<b>Event Summary</b> <ul style="list-style-type: none"> <li>Strong South Westerly causing Storm Surges from City to Frankston. Only 8mm of rain recorded at St Kilda Marina over 24 hours.</li> </ul>	
1.60m	1% AEP (100yr ARI) Tide Level	<b>Essential Infrastructure Impacted</b> <ul style="list-style-type: none"> <li>Tram Services along Kings Way (Route 55) impacted with flooding along Kings Way and Queens Bridge Street between Park Street and Queens Bridge</li> <li>Port Melbourne Ambulance Station on Brady Street, South Melbourne likely has access issues along Brady Street &amp; Boundary Street</li> </ul> <b>Water Over Road</b> <ul style="list-style-type: none"> <li>Kings Way, South Melbourne from Albert Road to West Gate Freeway Underpass</li> <li>Chessell Street, South Melbourne</li> <li>Tope Street, South Melbourne between Chessell Street and York Street</li> <li>Meaden Street, South Melbourne</li> <li>Gladstone Street, South Melbourne</li> <li>Ferrars Street, South Melbourne between Gladstone Street and Thistlethwaite Street</li> <li>Kerr Street, South Melbourne</li> </ul>	<p>Tram services stop trams at a water depth of 10cm, tramways maintenance crews attend to resolve flooding problem</p> <p>Council to provide road closure signage if required.</p>

Bay Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> <li>• Gladstone Place, South Melbourne</li> <li>• Gladstone Lane, South Melbourne</li> <li>• Montague Street, South Melbourne at Light Rail Underpass</li> <li>• Johnston Street, South Melbourne</li> <li>• Boundary Street, Port Melbourne between Fennell Street &amp; White Street</li> <li>• Brady Street, South Melbourne</li> <li>• White Street, South Melbourne</li> <li>• Gittus Street, South Melbourne</li> <li>• Ingles Street, Port Melbourne at Crockford Street</li> <li>• Raglan Street, Port Melbourne at Ross Street, Princes Street and at Lyons Street</li> <li>• Lyons Street, Port Melbourne between Spring Street and Raglan Street</li> <li>• Esplanade Place, Port Melbourne</li> <li>• Spring Street, Port Melbourne</li> <li>• Davies Street, Port Melbourne</li> <li>• Lalor Street, Port Melbourne</li> <li>• Little Swallow Street, Port Melbourne</li> <li>• Pier Street, Port Melbourne</li> </ul>	

Table C3.9 – Breakdown of likely consequences at various St Kilda marina gauge level heights from coastal inundation around South Melbourne and Port Melbourne with operational considerations

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## APPENDIX D - FLOOD EVACUATION ARRANGEMENTS

### Phase 1 - Decision to Evacuate

The Incident Controller may make the decision to evacuate an at-risk community under the following circumstances:

- Properties are likely to become inundated;
- Properties are likely to become isolated and occupants are not suitable for isolated conditions;
- Public health is at threat as a consequence of flooding and evacuation is considered the most effective risk treatment. This is the role of the Health Commander of the incident to assess and manage. Refer to the State Health Emergency Response Plan (SHERP) for details);
- Essential services have been damaged and are not available to a community and evacuation is considered the most effective risk treatment.

The following should be considered when planning for evacuation:

- Anticipated flood consequences and their timing and reliability of predictions;
- Size and location of the community to be evacuated;
- Likely duration of evacuation;
- Forecast weather;
- Flood Models;
- Predicted timing of flood consequences;
- Time required to conduct the evacuation;
- Time available to conduct the evacuation;
- Evacuation priorities and evacuation planning arrangements;
- Access and egress routes available and their potential flood liability;
- Current and likely future status of essential infrastructure;
- Resources required to conduct the evacuation;
- Resources available to conduct the evacuation;
- Shelter including Emergency Relief Centres, Assembly Areas etc.;
- Vulnerable people and facilities;
- Transportation;
- Registration
- People of CALD background and transient populations;
- Safety of emergency service personnel;
- Different stages of an evacuation process.

The decision to evacuate is to be made in consultation with the MERO, MERC, DHS, Health Commander and other key agencies and expert advice (Melbourne Water, BoM and Flood Intelligence specialists).

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No triggers for evacuation have been identified.

## Phase 2 – Warning

Warnings may include a warning to prepare to evacuate and a warning to evacuate immediately. Once the decision to evacuate has been made, the at-risk community will be warned to evacuate. Evacuation warnings can be disseminated via methods listed in part 3 of this plan.

Evacuation warning messages will be developed and issued by VICSES in consultation with the MERO, MERC, DHS and other key agencies and expert advice (Melbourne Water, BoM and Flood Intelligence specialists).

## Phase 3 – Withdrawal

Withdrawal will be controlled by VICPOL. VICSES will provide advice regarding most appropriate evacuation routes and locations for at-risk communities to evacuate to, etc.

VICSES, MFB,AV and Local Government will provide resources where available to support VICPOL/VICROADS with route control and may assist VICPOL in arranging evacuation transportation.

VICPOL will control security of evacuated areas.

Evacuees will be encouraged to move using their own transport where possible. Transport for those without vehicles or other means will be arranged via the EMT, No predefined evacuation routes have been determined for the City of Port Phillip. Evacuation routes will be subject to the location and severity of the event

Designated landing zones for helicopters are located at:

- Moorabbin Airport
- Essendon Airport

### **Vulnerable People in Emergencies**

Vulnerable people living in the community will be identified through funded agencies, community service organisations or other community networks. Such people will be assessed against the definition of a vulnerable person and may qualify for registration on the Vulnerable Persons Register (VPR).

A list of facilities where vulnerable people may be located, is also kept by Council. These may be funded facilities including education, health and childcare, commonwealth regulated aged care facilities and other locally identified facilities. Further information on Vulnerable People in Emergencies can be obtained from Councils Emergency Management Co-ordinator.

Further information on Council's 'residents at risk' register can be obtained from City of Port Phillip MEMP Plan, MECC Central or by contacting the MRM on 9209 6777

## Phase 4 – Shelter

Relief Centres and/or assembly areas which cater for people's basic needs for floods may be established to meet the immediate needs of people affected by flooding. The flood relief centres and/or Assembly Areas can be obtained from City of Port Phillip MEMP Plan, MECC Central or by contacting the MERO on 9209 6777

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VICPOL in consultation with VICSES will liaise with Local Government and DHS (where regional coordination is required) via the relevant control centre to plan for the opening and operation of relief centres. This can best be achieved through the Emergency Management Team (EMT).

### **Animal Shelter**

Animal shelter compounds will be established for domestic pets and companion animals of evacuees. Refer to the MEMP for further arrangements.

### **Phase 5 – Return**

Return will be consistent with the Strategic Plan for the Return of Community

The Incident Controller in consultation with VICPOL will determine when it is safe for evacuees to return to their properties and will arrange for the notification of the community.

VicPol will manage the return of evacuated people with the assistance of other agencies as required.

Considerations for deciding whether to evacuate include:

- Current flood situation;
- Status of flood mitigation systems;
- Size and location of the community;
- Access and egress routes available and their status;
- Resources required to coordinate the return;
- Special needs groups;
- Forecast weather;
- Transportation particularly for people without access to transport

### **Disruption to Services**

Disruption to a range of services can occur in the event of a flood. This may include road closures affecting school bus routes, water treatment plant affecting potable water supplies etc.

### **Essential Community Infrastructure and Property Protection**

No essential Community Infrastructure and properties that require protection have been identified.

### **Rescue**

The following resources are available within City of Port Phillip to assist with rescue operations:

- VICSES Resources
- VICPOL through Search and Rescue
- MFB

Refer to Section 3.10 for Rescue arrangements.

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## APPENDIX E - FLOOD WARNING SYSTEMS

### Flood Warning

Flood Warning products and Flood Class Levels can be found on the BoM website. Flood Warning Products include Severe Thunderstorm Warnings, Severe Weather Warnings, Flood Watches and Flood Warnings.

The City of Port Phillip is more vulnerable to flash flooding than riverine flooding. While the BoM provides severe weather warnings, which can include the risk of flash flooding, specific flash flood forecasts and warnings (i.e. including specific location and timing information) are not generally provided. This is due to the unpredictable nature and speed of flash flooding. As a result, no flood bulletins will be issued prior to flash flooding.

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## APPENDIX F – MAPS

### Overview

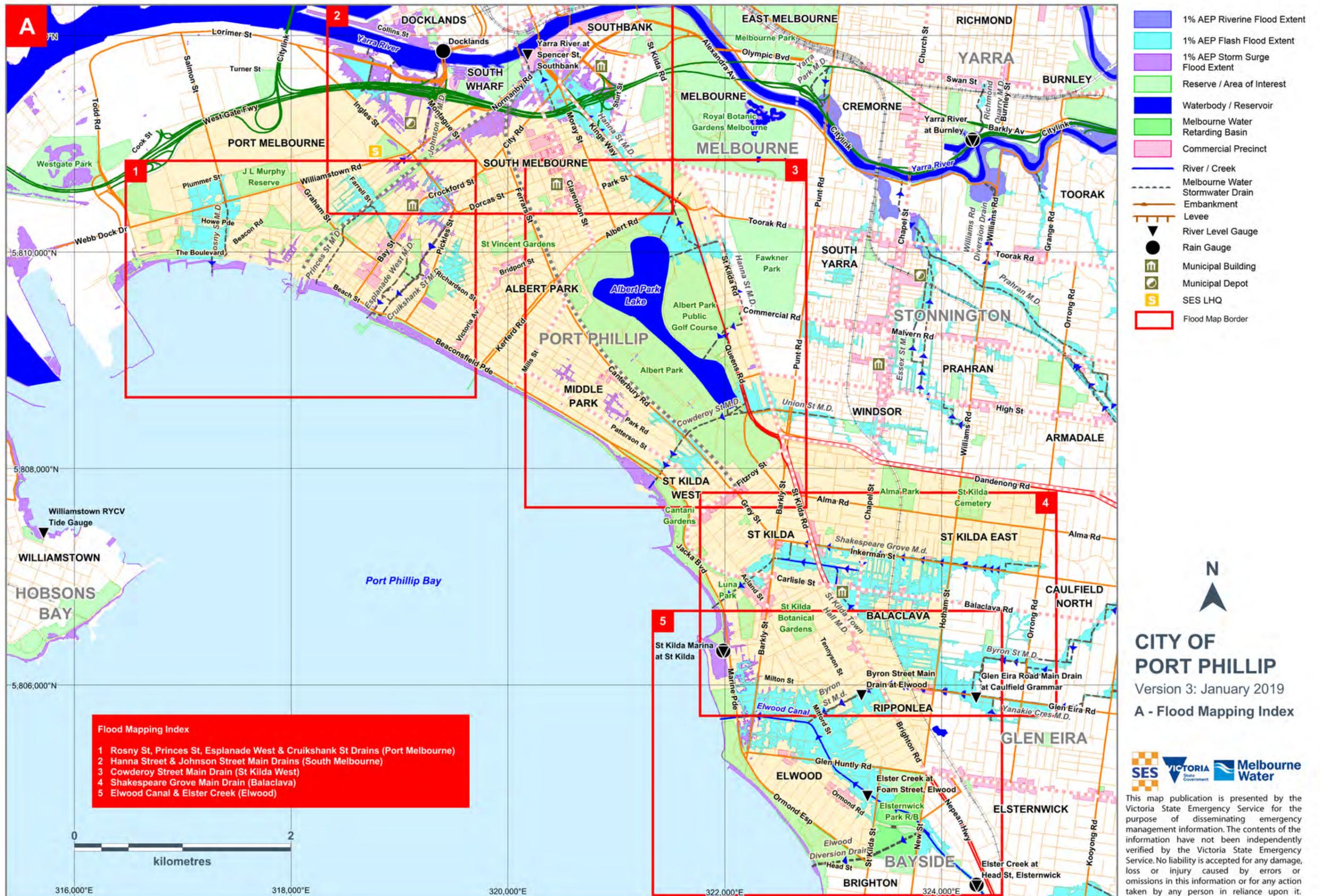
**Maps considered useful to flood response are included in this Appendix. They include:**

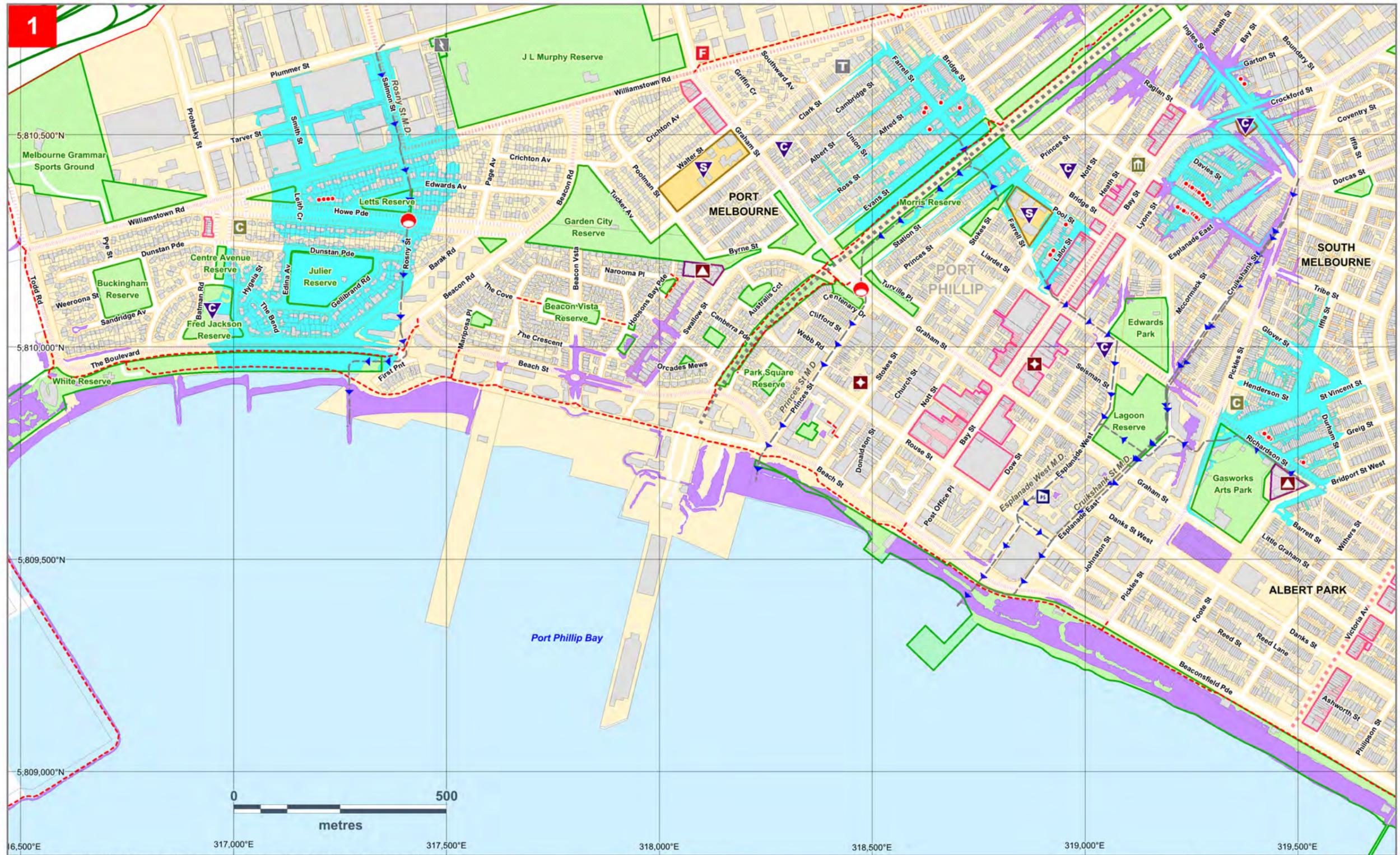
- A map outlining a series of flooding hot spot maps within the City of Port Phillip.
- A map showing the Municipal boundary together with the open waterways and underground stormwater drainage pipe network within the City of Port Phillip and the 1% AEP (100-year ARI) flood extents (sourced from Melbourne Water GIS).
- A set of five maps showing flooding hot spots within the City of Port Phillip together with the 1% AEP (100-year ARI) flood extents (sourced from the Melbourne Water GIS).

**Note that:**

- The mapping/data provided in this Appendix has been developed from Melbourne Water and other sources and taken from historical records and flood modelling. It may not include more recent data or local anecdotal information. It is planned that the mapping/data be updated as further studies or modelling is completed and other Information obtained.
- Maps showing the Special Building Overlay and Land Subject to Inundation Overlay are included in the Port Phillip Planning Scheme can be used as a guide to areas that may flood during an event. The maps can be found in hard copy form at the Council's main office or online at the Department of Planning and Community Development website <http://planningschemes.dpcd.vic.gov.au/>.
- Maps showing 1 in 100-year ARI (1% AEP) flood extents and floodways (together with volume, height and water quality data) are shown at DELWP's mapshare website <http://mapshare.maps.vic.gov.au/MapShareVic/index.html?viewer=MapShareVic.PublicSite&locale=en-AU>

Flood Extent Maps (sourced Melbourne Water GIS)





Flash flood modelling completed by CMPS&F Pty Ltd, April 1998. Storm Surge flood modelling completed by Cardno, 2015. Map Produced by VicSES January 2019.

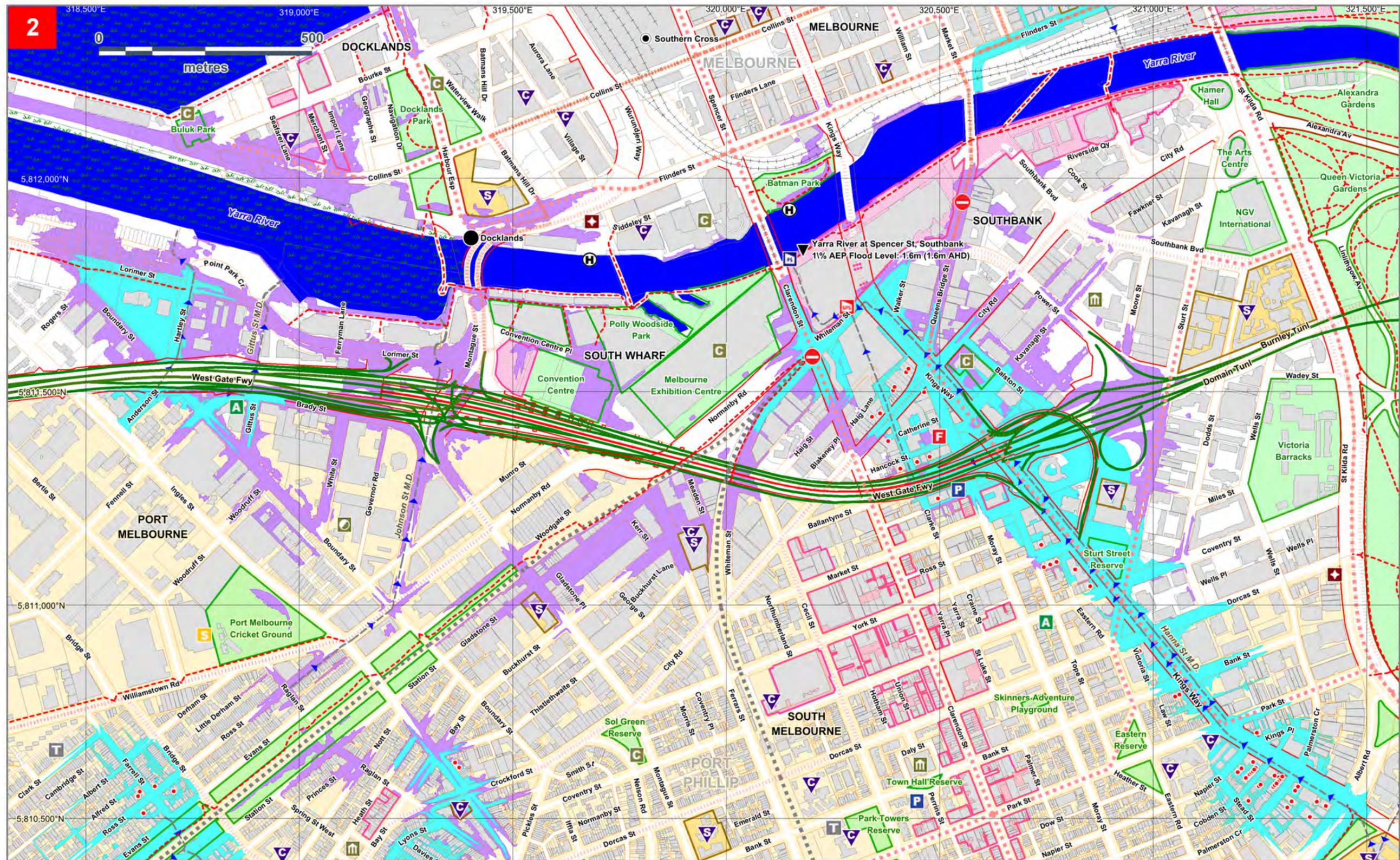
**CITY OF PORT PHILLIP**  
 1% AEP (100yr ARI) Flooding  
**1. Rosny St, Princes St, Esplanade West & Cruikshank St Drains (Port Melbourne)**

- |   |                                  |                        |                                 |
|---|----------------------------------|------------------------|---------------------------------|
| Building                                      | Bicycle / Walking Trail          | Community Centre       | Kindergarten / Child Care       |
| Area of Interest                              | Bus Route (PTV)                  | Place Of Worship       | School / College                |
| Waterbody                                     | Melbourne Water Stormwater Drain | Municipal Offices      | Sewer Emergency Relief Point    |
| 1% AEP Flash Flood Extent (Depth Unavailable) | Creek / Channel                  | Telephone Exchange     | 1% AEP Over-Floor Flooding Risk |
| 1% AEP Storm Surge Extent                     | Light Rail                       | Aged Care Facility     |                                 |
| Shopping Precinct                             | Tramway                          | Power Terminal Station |                                 |



**SES** **VICTORIA** **Melbourne Water**

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Hanna St M.D. flood modelling completed by CMPS&F Pty Ltd, April 1998. Storm Surge flood modelling completed by Cardno, 2015. Map Produced by VicSES January 2019.

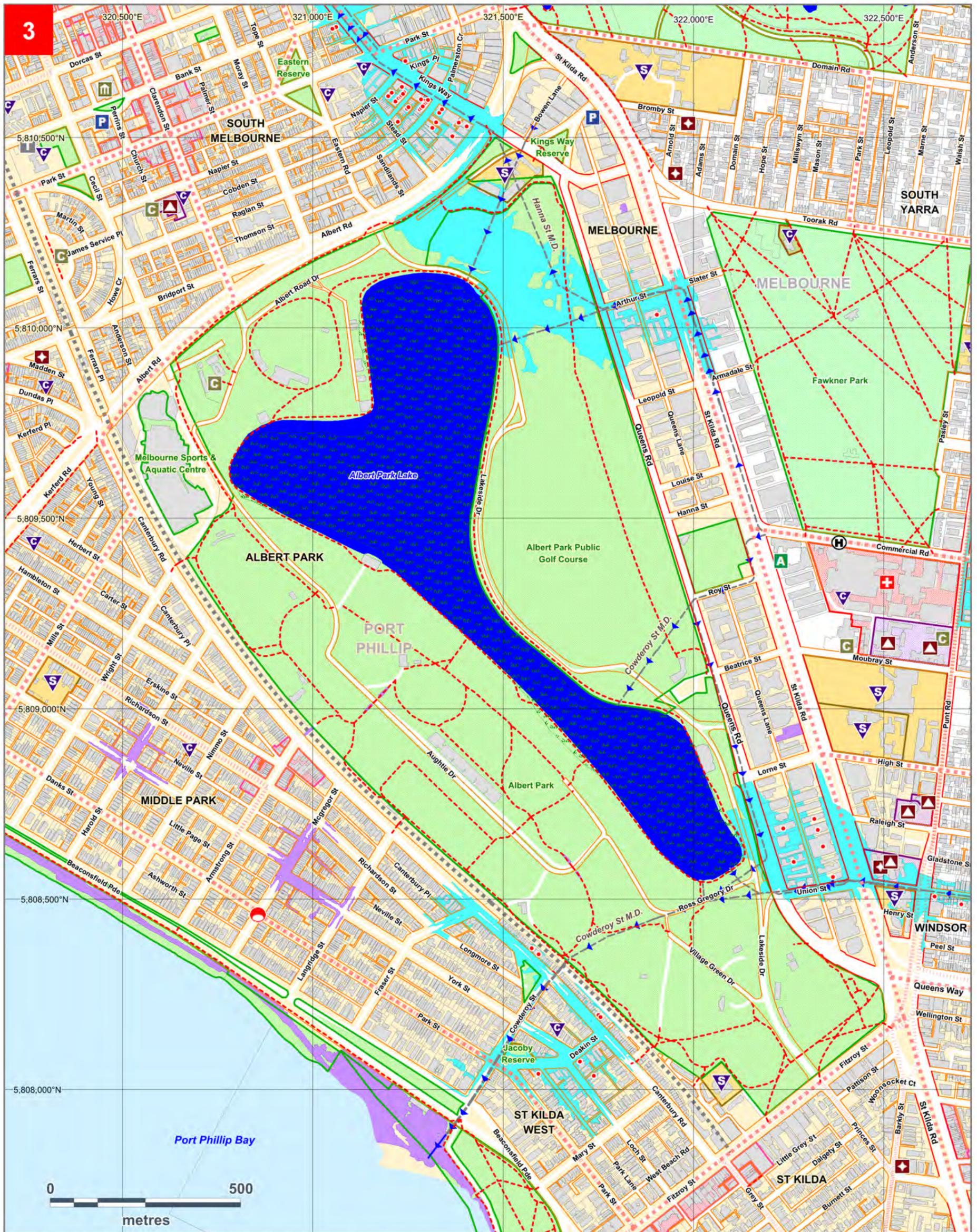
**CITY OF PORT PHILLIP**  
 1% AEP (100yr ARI) Flooding  
**2. Hanna Street Main Drain**  
 (South Melbourne)

- |   |                                  |                    |                       |                                  |
|---|----------------------------------|--------------------|-----------------------|----------------------------------|
| Building                                      | Shopping Precinct                | Place Of Worship   | Ambulance Station     | Level Gauge & 1% AEP Flood Level |
| Area of Interest                              | Melbourne Water Stormwater Drain | Municipal Offices  | Helipad               | Rain Gauge                       |
| Waterbody                                     | Creek / Channel                  | Municipal Depot    | Fire Station          | Kindergarten / Child Care        |
| 1% AEP Flash Flood Extent (Depth Unavailable) | Bicycle / Walking Trail          | Community Centre   | Sewer Pumping Station | School / College                 |
| 1% AEP Storm Surge Extent                     | Bus Route (PTV)                  | Police Station     | Road Closure Likely   | State Emergency Service          |
| Natural Wetland                               | Railway                          | Telephone Exchange |                       |                                  |
|   | Light Rail                       |                    |                       |                                  |
|   | Tramway                          |                    |                       |                                  |



**SES** **VICTORIA** **Melbourne Water**

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Flood modelling completed by CMPS&F Pty Ltd, April 1998. Map Produced by VICSES January 2019.

### CITY OF PORT PHILLIP

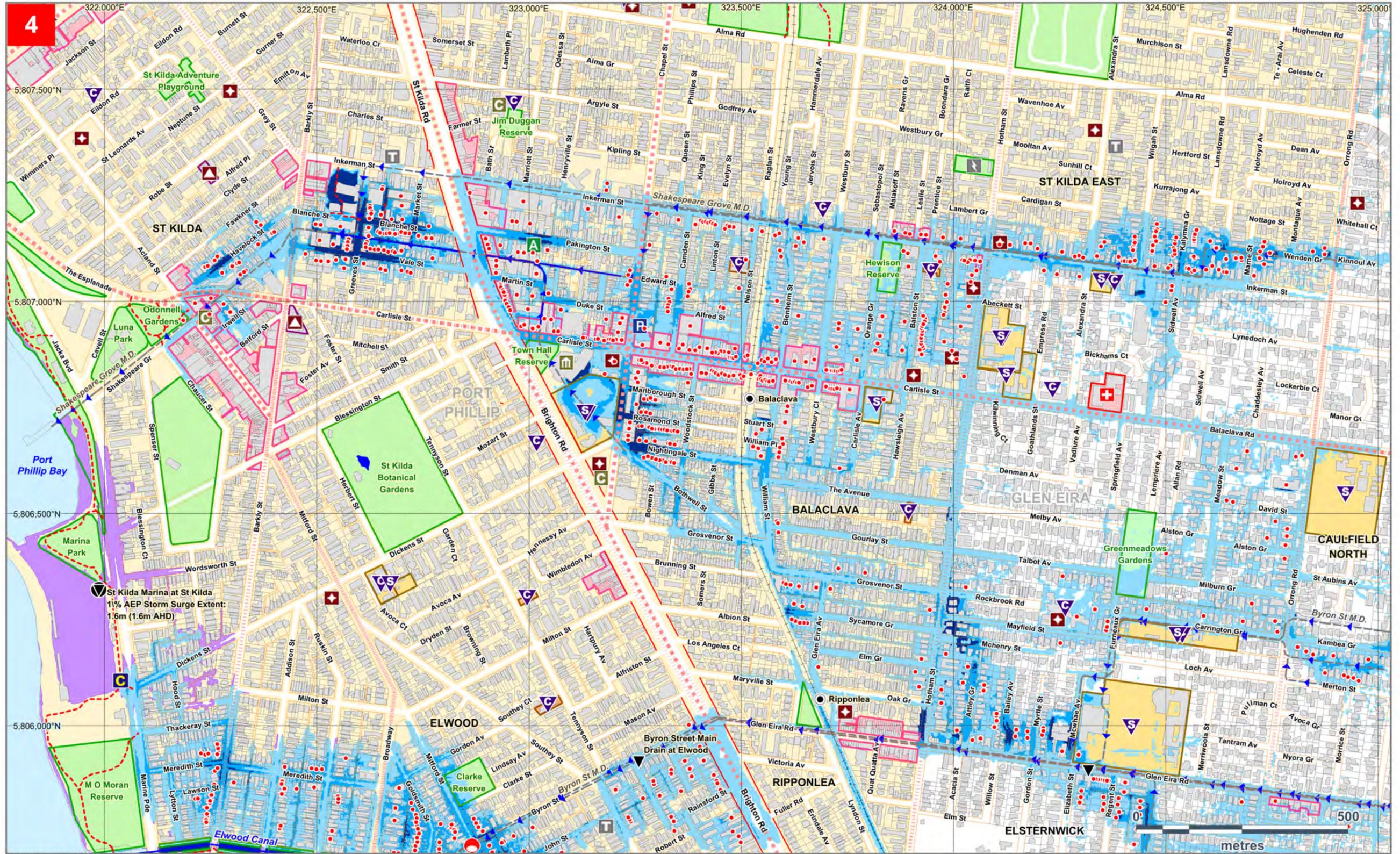
1% AEP (100yr ARI) Flooding  
**3. Cowderoy Street Drain (St Kilda West)**

- |   |                                  |                                 |
|---|----------------------------------|---------------------------------|
| Building                                      | Melbourne Water Stormwater Drain | School / College                |
| Waterbody                                     | River / Creek                    | Kindergarten / Child Care       |
| Reserve / Park                                | Bicycle / Walking Trail          | Municipal Offices               |
| 1% AEP Flash Flood Extent (Depth Unavailable) | Bus Route (PTV)                  | Aged Care Facility              |
| 1% AEP Storm Surge Extent (Depth Unavailable) | Sewer Emergency Relief Point     | Police Station                  |
| Shopping Precinct                             | Place Of Worship                 | Hospital                        |
| Natural Wetland                               | Community Centre                 | 1% AEP Over-Floor Flooding Risk |
|   | Telephone Exchange               |                                 |
|   | Ambulance Station                |                                 |



**Melbourne Water**

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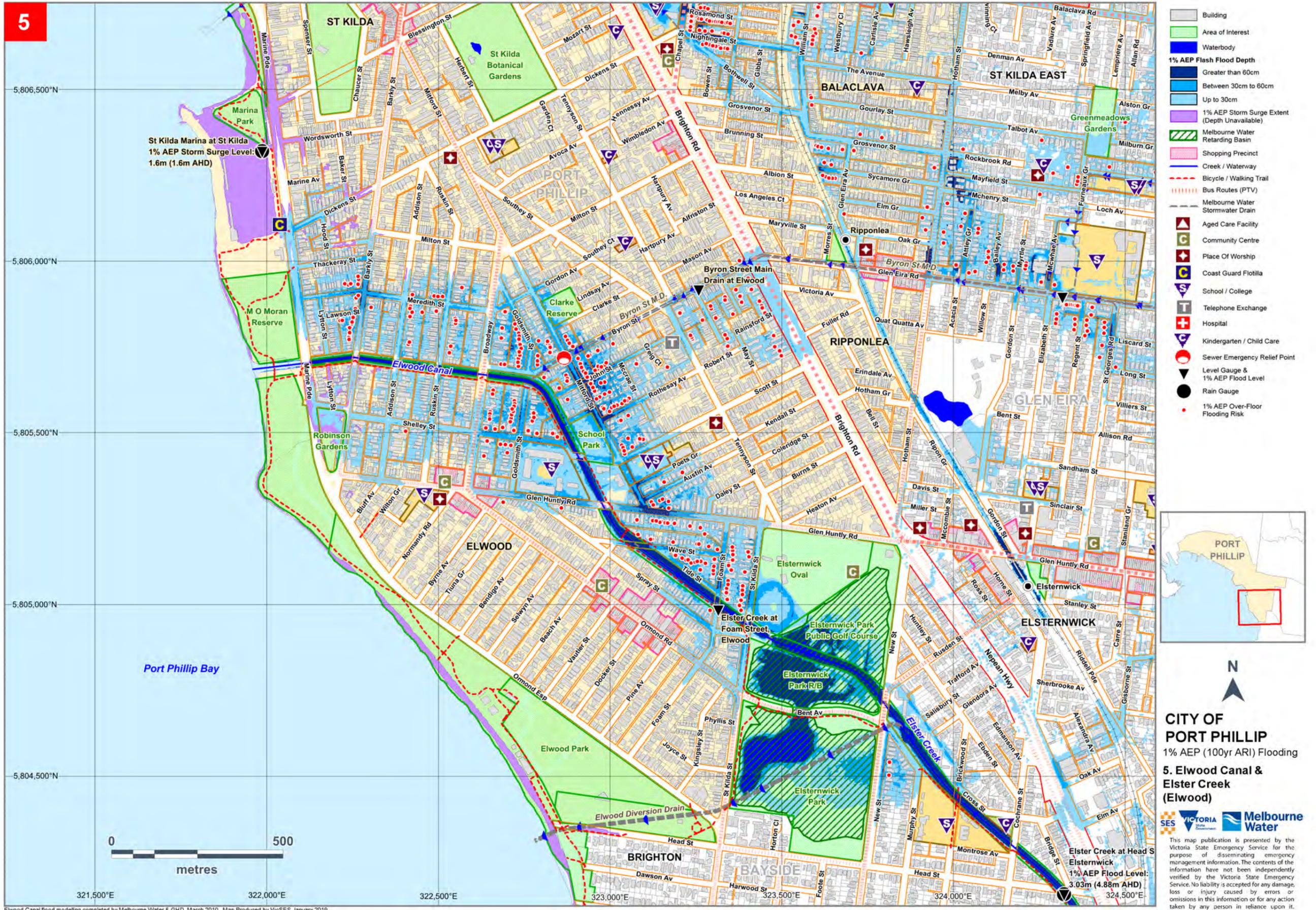
**CITY OF PORT PHILLIP**  
 1% AEP (100yr ARI) Flooding  
**4. Shakespeare Grove Main Drain (Balaclava)**

- |   |                                  |                           |                                 |                                  |
|---|----------------------------------|---------------------------|---------------------------------|----------------------------------|
| Building                                      | Shopping Precinct                | Kindergarten / Child Care | Coast Guard Flotilla            | Sewer Emergency Relief Point     |
| Area of Interest                              | 1% AEP Storm Surge Extent        | School / College          | Community Centre                | Level Gauge & 1% AEP Flood Level |
| Waterbody                                     | Creek / Channel                  | Place Of Worship          | Hospital                        | Rain Gauge                       |
| 1% AEP Flash Flood Depth Greater than 60cm    | Bicycle / Walking Trail          | Aged Care Facility        | Police Station                  | Power Terminal Station           |
| 1% AEP Flash Flood Depth Between 30cm to 60cm | Bus Route (PTV)                  | Municipal Offices         | 1% AEP Over-Floor Flooding Risk |                                  |
| 1% AEP Flash Flood Depth Up to 30cm           | Melbourne Water Stormwater Drain |                           |                                 |                                  |



**SES VICTORIA** **Melbourne Water**

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## APPENDIX G – CATCHMENT SCHEMATICS

Schematics detailing the drainage catchments relevant for this municipality have been included in this Appendix. Each Schematic outlines the drainage system comprising of rivers, creeks or storm-water drains contained within one of the major catchments in the Port Phillip & Westernport Region.

Within each Schematic, there are details useful to flood response such as those relating to gauges, towns, rivers, creeks, drains and reservoirs. Historical facts and figures may also be shown.

The schematics also detail the response boundaries for SES Units and local government, and provide a reference link to the corresponding Municipal Flood Emergency Plan.

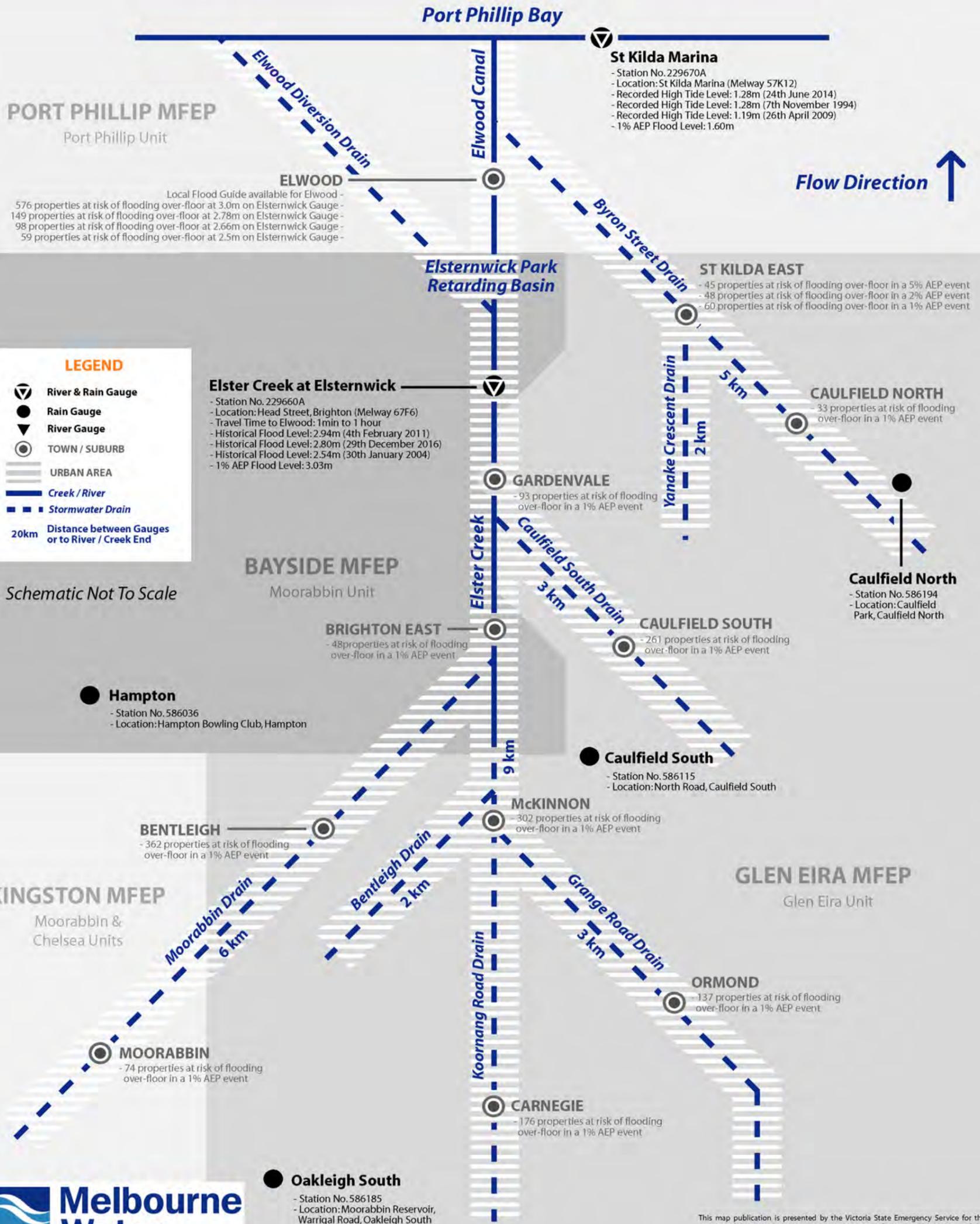
Details within these Catchment Schematics reflect those contained within either other sections of this Municipal Flood Emergency Plan or refer to other Municipal Flood Emergency Plans. These details have been filtered to contain only key facts. For more information on a gauge, drainage system or town consult the corresponding Flood Emergency Plan

Note that not all waterways or drains are included in the schematics, only those that are likely to contribute to flooding further on along the drainage system. Note also the flow direction; the schematics either flow from the top of the page to the bottom, or vice versa.



# Elster Creek & Elwood Canal Catchment Schematic

Version 2 - February 2019



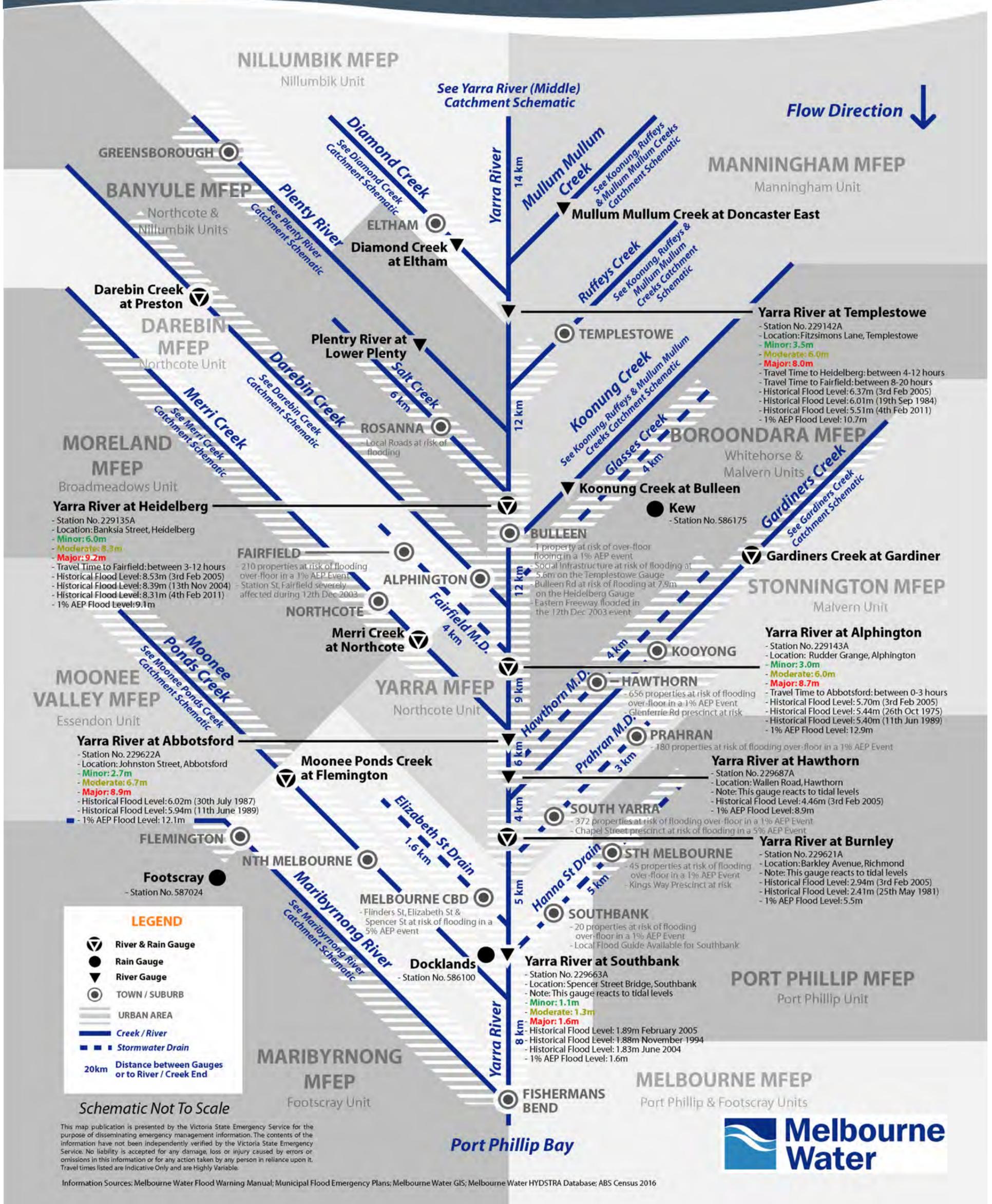
Information Sources: Melbourne Water Flood Warning Manual; Municipal Flood Emergency Plans; Melbourne Water GIS; Melbourne Water HYDSTRA Database; ABS Census 2016

This map publication is presented by the Victoria State Emergency Service for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by the Victoria State Emergency Service. No liability is accepted for any damage, loss or injury caused by errors or omissions in this information or for any action taken by any person in reliance upon it. Travel times listed are Indicative Only and are Highly Variable.



# Yarra River (Lower) Catchment Schematic

Version 4 - February 2019



**MANNINGHAM MFEP**  
Manningham Unit

**Yarra River at Templestowe**

- Station No. 229142A
- Location: Fitzsimons Lane, Templestowe
- Minor: 3.5m
- Moderate: 6.0m
- Major: 8.0m
- Travel Time to Heidelberg: between 4-12 hours
- Travel Time to Fairfield: between 8-20 hours
- Historical Flood Level: 6.37m (3rd Feb 2005)
- Historical Flood Level: 6.01m (19th Sep 1984)
- Historical Flood Level: 5.51m (4th Feb 2011)
- 1% AEP Flood Level: 10.7m

**STONNINGTON MFEP**  
Malvern Unit

**Yarra River at Alphington**

- Station No. 229143A
- Location: Rudder Grange, Alphington
- Minor: 3.0m
- Moderate: 6.0m
- Major: 8.7m
- Travel Time to Abbotsford: between 0-3 hours
- Historical Flood Level: 5.70m (3rd Feb 2005)
- Historical Flood Level: 5.44m (26th Oct 1975)
- Historical Flood Level: 5.40m (11th Jun 1989)
- 1% AEP Flood Level: 12.9m

**Yarra River at Hawthorn**

- Station No. 229687A
- Location: Wallen Road, Hawthorn
- Note: This gauge reacts to tidal levels
- Historical Flood Level: 4.46m (3rd Feb 2005)
- 1% AEP Flood Level: 8.9m

**PORT PHILLIP MFEP**  
Port Phillip Unit

**Yarra River at Southbank**

- Station No. 229663A
- Location: Spencer Street Bridge, Southbank
- Note: This gauge reacts to tidal levels
- Minor: 1.1m
- Moderate: 1.3m
- Major: 1.6m
- Historical Flood Level: 1.89m February 2005
- Historical Flood Level: 1.88m November 1994
- Historical Flood Level: 1.83m June 2004
- 1% AEP Flood Level: 1.6m

**MELBOURNE MFEP**  
Port Phillip & Footscray Units



**NILLUMBIK MFEP**  
Nillumbik Unit

**BANYULE MFEP**  
Northcote & Nillumbik Units

**DAREBIN MFEP**  
Northcote Unit

**MORELAND MFEP**  
Broadmeadows Unit

**MOONEE VALLEY MFEP**  
Essendon Unit

**FAIRFIELD**

**NORTHCOTE**

**YARRA MFEP**  
Northcote Unit

**Footscray**  
- Station No. 587024

**MARIBYRNONG MFEP**  
Footscray Unit

**Port Phillip Bay**

## APPENDIX H – SANDBAG ARRANGEMENTS

### General

Appropriately placed sandbags can help reduce the impact of flooding to residences, businesses and infrastructure. While sandbags will not completely stop all floodwater, they may reduce the amount of water entering properties.

The IC will determine the priorities related to the use of sandbags, which will be consistent with the strategic priorities and the VICSES Sandbag policy.

If VICSES sandbags are becoming limited in supply, then priority will be given to protection of Essential Infrastructure. If time permits, requests for supplementary supply should be carried out in line with the City of Port Phillip

### MEMP

The Incident Controller will ensure that owners of Essential Infrastructure are kept advised of the flood situation. Essential Infrastructure providers must keep the Incident Controller informed of their status and ongoing ability to provide services.

Port Phillip Council MERO will liaise with the VICSES Central Region RDO/ IC (as appropriate) to ensure effective coordination of listed resources.

Sandbags will be filled in accordance with the VICSES Sandbag Quick Reference Guide and the VICSES Statewide Guideline- Sandbags. A short video depicting the filling and use of sandbags is available at

<https://www.youtube.com/watch?v=-T--l3b-34&list=PL428FCA686837ADED>

(Sandbagging demonstration- vicesTV on YouTube).

Sand may be obtained from the suppliers/locations noted below and as stated in the VICSES MOU: Sand Supply.

### Operational

#### Sandbag Storage Locations

Sandbags may be obtained from any of the locations as noted below.

Organisation	Location	Number of Sandbags	Estimated Response Time	Contact
City of Port Phillip Council Depot	Depot address	0		
Port Phillip VICSES Unit	Unit LHQ	2000	1Hr	9645 1835
Glen Eira VicSES Unit	Unit LHQ	8000	2Hr	9579 7041
VicSES Central Region		As Required	4Hr	CTDO
Other				

Table H1- Sandbag storage locations within the City of Port Phillip and adjoining locations

## Sand Suppliers

In large events, or when local supplies have been exhausted, supply will be in accordance with *VICSES- Supplier MOU: Sand Supply*. VICSES F.O.G document suggests washed river sand as the preferred material, with soil and clay also potential options for use.

A heavy bodied or sandy soil is most desirable for filling sandbags, but any usable material at or near the site has definite advantages. Gravelly or rocky soils are generally poor choices because of their permeability. Filled bags of earth material will deteriorate quickly. Sand/ fill material should be free of salt and contaminants where possible.

Organisation	Location	Delivery Capability	Restrictions	Contact
Port Phillip City Council Depot	Depot address	Up to 5m <sup>3</sup> only		
Cameron's Sand Supply	970 Dandenong Road Carnegie	30m <sup>3</sup>	Not open Saturday	

Table H2- Sand Suppliers and locations within the City of Port Phillip and adjoining locations

## Sandbag Collection Points

Sandbag collection points may be established at the IC's discretion and as conditions permit. Potential locations are noted below. Note that locations documented below are potential sites only and will not be appropriate for use in all events.

Location	Address	Sector	Operational Restrictions	blank
Port Phillip City Council Depot	Action item need to identify with COPP			

Table H3- Port Phillip City Council potential Sandbag Collection Points

Residents may purchase sandbags or similar from hardware or garden supply stores for protection of residential property or businesses if a sandbag collection point is not available to the public. Some locations may include:

- Bunnings, Masters etc.
- Specific local companies known to carry supply

## Machinery Supply

Appliances documented below will be required when undertaking sandbagging operations

Organisation	Asset	Location	Estimated deployment time	Contact
Port Phillip City Council	Front End Loader Specification requirements :- Min lift height 2.5m Min Forward reach 60cm Max bucket width 2.5m	Council Depot		
	Small tipper (3 tonnes)			
	Vehicle/ trailer for sandbag transport			
VICSES Central Region	Sandbag Fill Machine	Pakenham	3Hr	CTDO

Table H4- Machinery/ Vehicles required for Sand Supply in Port Phillip

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Additional resources from Council that could be utilised to aid response include:

- Backhoe
- Rough Terrain Forklift
- Dozer D8

## **Post Operational**

### **Clean up and Disposal**

Residents, businesses and Essential Infrastructure owners will be encouraged to contact Council to determine the safest method for disposal of sandbags. Following a flood event within the Municipality, Port Phillip Council will facilitate the disposal of sandbags. VICSES will work in conjunction with Port Phillip City Council to ensure the disposal of used sandbags is dealt with under the Community Recovery arrangements as outlined in the EMMV.

## APPENDIX I – SEVERE WEATHER (STORM) EVENTS

### Overview

The City of Port Phillip is susceptible to Severe Weather Events because of the relatively flat terrain that is close to sea level as well as a dense population with buildings that range in age. This appendix details areas of risk from severe weather events by requests for assistance to the Victoria State Emergency Service (VICSES).

### VICSES Requests for Assistance

The Victoria State Emergency Service records Requests for Assistance made by the public during severe weather events. Table 1 below is a breakdown of requests by suburb and damage type during the period July 2009 and January 2019 for those associated with severe weather events.

VICSES Request for Assistance (July 2009 – December 2018)					
Suburb	Building Damage	Flooding	Other*	Tree Down	Tree Down Traffic Hazard
ALBERT PARK	60	21	1	34	25
BALACLAVA	46	15	0	26	5
ELWOOD	97	83	2	80	42
MELBOURNE	28	9	6	11	30
MIDDLE PARK	24	3	2	15	8
PORT MELBOURNE	106	43	0	44	29
RIPPONLEA	12	3	0	9	9
SOUTH MELBOURNE	133	47	5	51	47
SOUTHBANK	4	7	1	1	2
ST KILDA	150	61	1	100	41
ST KILDA EAST	56	14	0	69	23
ST KILDA WEST	32	11	0	22	6
WINDSOR	2	0	0	2	3

Table I1 – Breakdown of severe weather RFAs received by VICSES Nillumbik Unit by suburb

\* Rescue Persons Trapped, Dam Incident, & Landslide / Hazards

Table I2 is a breakdown of requests for assistance by Date (Month) and damage type for severe weather events.

VICSES Request for Assistance (July 2009 – December 2018)

Date	Building Damage	Flooding	Other*	Tree Down	Tree Down Traffic Hazard
July 2009	0	0	0	1	1
August 2009	11	0	0	10	10
September 2009	3	1	0	2	1
October 2009	3	0	0	1	0
November 2009	8	0	0	1	0
December 2009	2	0	0	0	1
January 2010	2	0	0	7	3
February 2010	10	6	0	6	3
March 2010	61	32	2	1	1
April 2010	1	0	0	0	1
May 2010	0	0	0	0	0
June 2010	4	0	0	4	3
July 2010	0	0	0	1	2
August 2010	6	0	0	3	1
September 2010	7	0	0	3	2
October 2010	17	6	0	4	2
November 2010	6	1	0	5	5
December 2010	3	0	0	1	1
January 2011	4	4	0	3	5
February 2011	88	120	7	9	8
March 2011	2	2	0	0	1
April 2011	12	5	0	1	0
May 2011	3	0	0	1	1
June 2011	1	0	0	1	2
July 2011	2	1	0	0	1
August 2011	1	0	0	1	0
September 2011	4	1	0	4	3
October 2011	1	0	0	2	0
November 2011	8	3	0	5	0
December 2011	2	2	0	3	2
January 2012	5	1	0	8	13
February 2012	9	2	0	13	5
March 2012	1	1	0	4	1
April 2012	11	0	0	3	1
May 2012	4	0	0	0	0
June 2012	6	0	0	3	3
July 2012	0	0	0	1	0
August 2012	0	0	0	2	4
September 2012	7	1	0	5	1
October 2012	2	0	1	2	3
November 2012	1	0	0	2	0
December 2012	3	0	0	3	2
January 2013	2	0	0	0	2
February 2013	3	0	0	2	2
March 2013	12	0	0	21	13
April 2013	2	0	0	0	0
May 2013	2	0	0	0	1
June 2013	2	0	0	1	0
July 2013	5	1	0	5	2
August 2013	22	0	0	8	5
September 2013	7	0	0	4	3
October 2013	33	2	0	46	11
November 2013	4	0	0	1	3
December 2013	4	2	0	1	2
January 2014	4	0	0	6	7
February 2014	0	1	0	4	3
March 2014	1	0	0	2	0
April 2014	1	4	0	4	1

VICSES Request for Assistance (July 2009 – December 2018)					
Date	Building Damage	Flooding	Other*	Tree Down	Tree Down Traffic Hazard
May 2014	1	0	0	0	0
June 2014	16	6	0	19	5
July 2014	4	0	0	1	1
August 2014	1	0	0	1	0
September 2014	12	0	0	9	3
October 2014	1	1	0	1	0
November 2014	2	0	0	2	2
December 2014	9	0	0	11	3
January 2015	5	1	0	4	6
February 2015	5	0	0	1	12
March 2015	3	0	0	11	1
April 2015	0	0	0	0	1
May 2015	2	0	0	1	0
June 2015	3	0	0	0	1
July 2015	4	0	0	1	0
August 2015	1	0	0	0	1
September 2015	1	0	0	1	0
October 2015	1	0	0	0	1
November 2015	13	9	0	9	7
December 2015	2	1	0	12	2
January 2016	5	0	0	8	2
February 2016	0	0	0	3	1
March 2016	3	0	0	2	3
April 2016	1	0	0	1	1
May 2016	5	0	0	8	4
June 2016	3	2	0	1	1
July 2016	4	0	0	1	0
August 2016	2	1	0	0	0
September 2016	2	0	0	0	0
October 2016	30	0	0	29	14
November 2016	4	0	0	5	0
December 2016	42	23	2	7	2
January 2017	1	0	0	4	2
February 2017	6	7	0	2	7
March 2017	4	1	0	3	1
April 2017	6	2	1	3	2
May 2017	0	1	0	0	1
June 2017	0	1	0	0	0
July 2017	18	0	0	15	4
August 2017	0	0	0	2	1
September 2017	7	2	1	2	1
October 2017	0	0	0	0	0
November 2017	4	1	0	3	3
December 2017	25	20	1	9	4
January 2018	3	0	0	3	4
February 2018	3	1	0	19	8
March 2018	2	0	0	3	2
April 2018	0	0	0	4	1
May 2018	2	0	0	4	2
June 2018	1	1	0	1	1
July 2018	7	0	0	2	1
August 2018	2	2	0	1	1
September 2018	2	0	0	1	0
October 2018	0	0	0	0	1
November 2018	7	6	0	2	1
December 2018	39	29	3	2	3

Table I2 – Breakdown of severe weather RFAs received by VICSES Port Phillip Unit by date

\* Rescue Persons Trapped, Rescue Structure Collapse

VICES Requests for Assistance (Severe Weather) Mapping



Figure I1 – Breakdown of severe weather RFAs received by VicSES Port Phillip Unit by request type



Figure H2 – Breakdown of severe weather RFAs received by VicSES Port Phillip Unit by date (Where over 70 RFAs Received per Event)

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## LOCAL FLOOD GUIDES

VICSES has developed Local Flood Guides to explain local flood risks for communities at risk. This includes advice for communities on how to prepare and respond to flood events and who to contact in the event of a flood. These guides are continually updated and the most recent version can be found here:- <https://www.ses.vic.gov.au/get-ready/your-local-flood-information/port-philip-city-council>