

City of Merri-bek

Flood and Storm Emergency Plan

A Sub-Plan of the Municipal Emergency Management Plan

For the City of Merri-bek
And
VICSES Fawkner Unit

Version 5.1
Reviewed November 2024



Merri-bek
City Council



Acknowledgment of Traditional Owners

Merri-bek Municipal Emergency Management Planning Committee acknowledges the Wurundjeri Woi-wurrung people of the Kulin Nation as the Traditional custodians of the lands and waterways in the area now known as Merri-bek, and pays respect to their Elders past and present, as well as to all First Nations' communities who significantly contribute to the life of the area.

The area we know today as Merri-bek was, for tens of thousands of years, a sparsely wooded forest with native grasslands that was governed by the Wurundjeri Woi wurrung people. The Merri Creek, also known as the "Merri Merri" Creek, means "very rocky" in Woi wurrung, the traditional language of this Country. The Merri creek wound its way through a fertile flood plain, or terrace about 300 metres wide.

The Moonee Ponds Creek was named after Wurundjeri Woi wurrung Ancestor Moonee Monee. It is older than the Merri Creek, originally cut as deep as 10 metres into the sandstone. This was the original landscape that provided the basis for the cultural, spiritual, economic, and social lives of the Traditional Owners of Country.

Authority

The plan has been prepared in accordance with and complies with the requirements of the EM Act 2013 including having regard to the guidelines issued under section 77, [Guidelines for Preparing State, Regional and Municipal Emergency Management Plans](#) and was endorsed by the North West Metro Regional Emergency Management Planning Committee as a Sub-Plan to the State Emergency Management Plan and approved by the Emergency Management Commissioner.

Authorised and published by

Authorised and published by the Victorian Government Melbourne

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Document information

Date of REMPC approval 22 August 2025

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Distribution

Once endorsed and signed VICSES will electronically distribute the Merri-bek Municipal Flood and Storm Plan (MFSEP) to all Municipal Flood and Storm Planning Committee (MFSPC) members and the following agencies. It is the responsibility of agencies to arrange for internal distribution of the Plan.

- Merri-bek City Council
 - Municipal Emergency Management Officer (MEMO)
 - Deputy MEMO
 - Municipal Recovery Manager (MRM)
- Victoria State Emergency Service (VICSES)
 - Western Region
 - Fawkner Unit
- Victoria Police
 - Merri-bek Municipal Emergency Response Coordinator (MERC) – Brunswick
 - North West Metro Regional Emergency Response Coordinator (RERC)
- Ambulance Victoria
- Fire Rescue Victoria
- North West Metro Regional Control Centre (RCC)
- Sunshine Incident Control Centre (ICC)
- Melbourne Water
- Bureau of Meteorology (Flood Warning)
- Department of Energy, Environment and Climate Action (DEECA)
- Parks Victoria
- Jemena
- NBN Co
- AusNet Services
- Department of Transport and Planning (DTP)
- Department of Families, Fairness and Housing (DFFH)
- Department of Health (DH)
- Telstra

Document Transmittal Form / Amendment Certificate

This Municipal Flood and Storm Emergency Plan (MFSEP) will be amended, maintained and distributed as required or every three years by VICSES in consultation with the Municipal Emergency Management Planning Committee (MEMPC).

Suggestions for amendments to this Plan should be forwarded to:

VICSES Western Region
7 Rohs Road
East Bendigo Vic 3550
Phone 03 9256 9500
Email ust.loddon@ses.vic.gov.au

Amendments listed below have been included in this Plan and updated as a new version.

Amendment Number	Date of Amendment	Amendment Entered By	Summary of Amendment
1	21/05/2013		First issue
2	09/06/2016	Ross Butler	Update of Appendix A, B, C & F. Addition of Appendix G.
2.1	21/06/2016	Gerabeth Abbott, Alison Tuxworth	Terminology update, local info Appendix C
3	27/4/2018	Gerabeth Abbott	Update terminology and references (entire plan), additional data Appendix C. Conversion to Storm and Flood plan, addition of Appendix H
4	17/4/2019	Ross Butler	Update of Appendix A, B, C, F, G and H
4.1	06/5/2019	Gerabeth Abbott	Content update – plan body. Incorporation of local knowledge
4.2	25/7/2019	Sub-committee	Appendix C - Inclusion of agency operational considerations
5.0	01/03/2024	Ross Butler	Update of Agency and document references. Update of Appendix A, B, C, F & H based on new flood modelling
5.1	01/08/2024	Rebecca McDonald	Alignment to updated MFSEP template.

This Plan will be published on the VICSES website at www.ses.vic.gov.au/get-ready/your-local-flood-information located with the associated local flood guide(s).

Acronyms

The following abbreviations and acronyms are used in the Plan			
AAR	After Action Review	ICC	Incident Control Centre
AEP	Annual Exceedance Probability	IIA	Initial Impact Assessment
AHD	Australian Height Datum (the height of a location above mean sea level in metres)	IMS	Incident Management System
AIDR	Australian Institute of Disaster Resilience	IEMT	Incident Emergency Management Team
AIIMS	Australasian Inter-service Incident Management System	IMT	Incident Management Team
AoCC	Area of Operations Control Centre / Command Centre	JSOP	Joint Standard Operating Procedure
ARI	Average Recurrence Interval	LSIO	Land Subject to Inundation Overlay
AV	Ambulance Victoria	MECC	Municipal Emergency Coordination Centre
BoM	Bureau of Meteorology	MEMO	Municipal Emergency Management Officer
CEO	Chief Executive Officer	MEMP	Municipal Emergency Management Plan
CERA	Community Emergency Risk Assessment	MEMPC	Municipal Emergency Management Planning Committee
CFA	Country Fire Authority	MERC	Municipal Emergency Response Coordinator
CMA	Catchment Management Authority	MRM	Municipal Recovery Manager
DEECA	Department of Energy, Environment and Climate Action	PMF	Probable Maximum Flood
DFFH	Department of Families, Fairness and Housing	RAC	Regional Agency Commander
DH	Department of Health	RCC	Regional Control Centre
DESP	Dam Safety Emergency Plan	RDO	Regional Duty Officer
DSIR	Department of Skills, Industry and Regions	RERC	Regional Emergency Response Coordinator
DoI	Department of Infrastructure	RERCC	Regional Emergency Response Coordination Centre
DTP	Department of Transport and Planning	SBO	Special Building Overlay
EMLO	Emergency Management Liaison Officer	SCC	State Control Centre
EMV	Emergency Management Victoria	SEMP	State Emergency Management Plan
EO	Executive Officer	SERP	State Emergency Response Plan
FO	Floodway Overlay	SEWS	Standard Emergency Warning Signal
FRV	Fire Rescue Victoria	SHERP	State Health Emergency Response Plan
FWS	Flood Warning System	SOP	Standard Operating Procedure
FZ	Floodway Zone	VicPol	Victoria Police
IC	Incident Controller	VICSES	Victoria State Emergency Service

Glossary

Below are terms defined for the purpose of this plan:

Term	Definition
Annual Recurrence Interval (ARI)	The average, or expected, value of the period between exceedances of a given rainfall or flow total accumulated over a given duration
Annual Exceedance Probability (AEP)	The probability that a given total rainfall or flow is accumulated over a given duration will be exceeded in any one year
Flash flooding	Sudden unexpected flooding caused by local heavy rainfall or rainfall in another area. Often defined as flooding which occurs within six hours of the rain which causes flooding.
Flood mapping	The process where the extent of flooding is documented in mapping software based on flood studies and surface elevations
Floodplain	Area of land adjacent to a creek, river, estuary, lake, dam or artificial channel, which is subject to inundation.
Hot spot	A known flood problem area which has a history of repeat flooding of a road, crossing or property, often highlighted through anecdotal information and customer complaints. It is a localised issue which will vary from council to council.
Natural drainage system	Flow paths which are largely undeveloped by human sources, these include rivers, streams, natural depressions and wetlands. All natural systems greater than 60 ha are managed by Melbourne Water.
Overland flooding	Flooding by local runoff caused by heavier than usual rainfall. Overland flooding can be caused by local flow exceeding the capacity of an urban stormwater drainage system or by the backwater effects of mainstream flooding causing urban stormwater drainage system to overflow. For local government areas this is over the 5 year ARI in residential or over 10yr ARI in commercial/industrial. For Melbourne Water catchment areas this is for all other ARIs up to the 100yr ARI. Note that not all overland flows cause flooding.
Retarding Basin	A Retarding Basin is a large, open, free draining basin that temporarily stores collected stormwater runoff. These basins are normally maintained in a dry condition between storm events.
Stormwater drainage system	A series of drains and waterways into which surface and stormwater flows. Features of a stormwater drainage system can include underground pipe drains, open channels, retarding basins, flood-ways, waterway improvements, water sensitive urban design, integrated water management systems and environment protection measures. All drainage under 60 ha is maintained and operated by Merri-bek City Council
Stormwater Runoff	The amount of rainfall that enters the stormwater drainage system, (via pits, pipes, retarding basins, water sensitive structures, harvesting tanks and overland flow paths) after water which is not absorbed into the ground has been taken into account.

Part 1. Introduction

1.1 Approval and endorsement

The Merri-bek MEMPC is the owner of this Municipal Flood and Storm Emergency Plan (MFSEP), pursuant to Part 6A of the Emergency Management Act 2013 (as amended). If the certificate of assurance is signed and dated, then the North West Metro REMPC has approved this plan.

In accordance with its roles and responsibilities set out in the [State Emergency Management Plan \(SEMP\)](#), Victoria State Emergency Service (VICSES) has prepared this plan in collaboration with the Merri-bek Municipal Flood and Storm Planning Committee (MFSPC)

This MFSEP is a Sub-Plan to the [Merri-bek Municipal Emergency Management Plan \(MEMP\)](#). It is consistent with the [SEMP](#) and the [Victorian Floodplain Management Strategy \(2016\)](#).

The plan is also consistent with and subordinate to:

- [SEMP Flood Sub-Plan](#), [SEMP Storm Sub-Plan](#)
- [North West Metro Regional Emergency Management Plan](#)
- North West Metro Region Flood Sub-Plan
- North West Metro Region Storm Sub-Plan (under development)

This MEMPC prepared this plan in alignment with the Guidelines for Preparing State, Regional and Municipal Emergency Management Plans, including formal consultation and statement of assurance. It also takes into account the outcomes of the Community Emergency Risk Assessment (CERA) process undertaken by the Municipal Emergency Management Planning Committee (MEMPC).

This MFSEP is a result of the cooperative efforts of the MFPC and its member agencies. This Plan requires the approval of the North West Metro Regional Emergency Management Planning Committee. This Plan is endorsed by the Merri-bek MEMPC as a Sub-Plan to the [MEMP](#).

The Merri-bek Municipal Flood and Storm Planning Committee (MFSPC) has consulted with the following people and organisations about the arrangements contained within this plan:

- Merri-bek City Council
- VICSES Fawkner Unit
- Victoria Police
- Fire Rescue Victoria
- Ambulance Victoria
- VCCEM
- Australian Red Cross
- Salvation Army
- Emergency Recovery Victoria
- DFFH
- Northern Health
- EPA
- DH.

1.2 Purpose and scope

The purpose of this MFSEP is to detail the arrangements for managing a flood emergency before, during and after it occurs or potentially occurs within the City of Merri-bek. As such, the scope of the Plan is to:

- identify the local flood and storm risk.
- support the implementation of mitigation and planning measures to minimise the causes and impacts of flooding.
- detail emergency management arrangements.
- identify linkages with local, regional and state emergency planning arrangements with a specific emphasis on those relevant to flood.

1.3 How to read this plan

This is a Sub-Plan and therefore should be read in conjunction with the:

- [SEMP](#), [SEMP Flood Sub-Plan](#) and [SEMP Storm Sub-Plan](#)
- [North West Metro REMP](#)
- [Merri-bek MEMP](#)

1.3.1 Linkages and hyperlinks

This plan refers to a range of existing resources relating to floods/storms, including documents and websites. This plan does not seek to duplicate the information contained in these resources and instead provides links to where the reader can obtain further information.

For more operational or sensitive information, a log-in may be required, such as for documents saved on the Emergency Management Common Operating Picture ([EM-COP](#)), including [Joint Standard Operating Procedures \(JSOPs\)](#).

Documents or resources that are referred to frequently throughout this plan (such as the [SEMP](#)) may not be hyperlinked in each instance. All hyperlinks were accurate at time of publication and currency of the linked content remains the responsibility of the host agency.

1.4 Requirements of EMP guidelines

Emergency Management Victoria has published [guidelines for preparing emergency management plans including municipal plans](#). In accordance with section 3.1 (Requirements) this plan has been:

- prepared collaboratively, efficiently and effectively (section 60AA(1))
- is consistent with other existing in force EMPs and where possible not duplicate or conflict with those plans (section 60AC)1
- has adopted an integrated, coordinated and comprehensive approach to emergency management (sections 60AD, 60ADA and 60ADB)
- contain arrangements for mitigation, response, and recovery plus roles and responsibilities (section 60AE)
- Has been assured, approved and published every three years, or more frequently if required (sections 60AG, 60AH, and 60AI).

1.5 Municipal Flood and Storm Planning Committee (MFSPC)

Membership of the Merri-bek MFSPC comprises representatives from the following agencies and organisations:

- VICES Operations Officer - Emergency Management (Chair)
- VICES Fawknor Unit – Controller, Deputy Controller or delegate
- Merri-bek City Council
 - Manager City Services
 - Coordinator Emergency Management
 - Municipal Emergency Management Officer (MEMO)
 - Municipal Recovery Manager (MRM)
- Victoria Police – Municipal Emergency Response Coordinator
- Department of Families, Fairness and Housing (as required)
- Department of Energy, Environment and Climate Action (as required)
- Melbourne Water (as required)
- Bureau of Meteorology (as required)
- Local community representatives.

1.6 Responsibility for planning, review and maintenance

To remain effective and to place the community at centre of its planning, the MEMPC must ensure it maintains the MFSEP. VICES through the MFSPC has responsibility for facilitating the preparation, review, maintenance and distribution of this plan. The MFSPC will meet at least once per year. The MEMPC will ensure that the MFSPC review the plan following:

- a new flood study
- a significant change in flood mitigation measures
- after the occurrence of a significant flood event within Merri-bek
- three years elapsing after the last review.

1.7 Community consultation in developing or review of the plan

The MEMPC has undertaken community engagement via:

- Several community sessions of The Adaptation Game (TAG) with a focus on flood risk
- Volunteer members of the VICES Fawknor Unit
 - Who have engaged with community at many events and festivals in the past 12 months (e.g. Coburg and Brunswick Festivals, Ballerit Mooroop Day (First Nations reconciliation))
- Merri-bek City Council staff representing various community assets and functions
 - Who have directly engaged with CALD community connectors on various EM issues
- Direct engagement with specific community groups including:
 - Victorian Council of Churches Emergencies Ministry
 - Salvation Army
 - Australian Red Cross.

The consultation process occurred between March and November 2024.

Part 2. Prevention and preparedness

Upon formal adoption by the MEMPC the community will have access to the details of this MFSEP via:

- [Victoria State Emergency Service \(VICSES\) website](#)
- [Merri-bek City Council website](#)
- any [Be Flood Ready](#) or [Storms - Plan and stay safe](#) engagement initiatives and websites.

VICSES with the support of Merri-bek City Council and Melbourne Water will coordinate targeted community flood engagement programs within the council area.

2.1 Structural flood mitigation measures

Structural flood mitigation measures are any physical construction to reduce or avoid possible impacts of flood hazards, or the application of engineering techniques or technology to achieve flood hazard resistance and resilience in structures or systems¹. Structural flood mitigation measures related to levees and retarding basins within Merri-bek are detailed in [Appendix C](#).

It is important to note that many Public Open Spaces within Merri-bek are used for structural mitigation, specifically as retarding basins, designed to minimise the impact of flood water on surrounding areas. Although these Spaces are used extensively by the community for recreation, and are dry through most of the year, they are critical to flood mitigation with the municipality and must be retained for that purpose.

2.2 Non-structural flood mitigation measures

Non-structural flood mitigation measures¹ are measures not involving physical construction which use knowledge, practice or agreement to reduce disaster risks and impacts, in particular through policies and laws, public awareness raising, training and education. The following are a summary of non-structural flood mitigation measures in the municipality.

2.2.1 Planning controls

As our city grows to cater for population growth, increases to imperviousness of the catchment will result in increases to stormwater runoff, especially during flooding events.²

Special Building Overlay (SBO)

The purpose of the SBO is to identify land in urban areas liable to inundation by overland flows from the urban drainage system as determined by, or in consultation with, Melbourne Water.

Land Subject to Inundation (LSIO) Overlay

The purpose of the LSIO is to minimise the potential flood risk to life, health and safety associated with development. The LSIO identifies flood prone land affected by a 1% AEP flood or any other area determined by Melbourne Water.

¹ [United Nations Office of Disaster Risk Reduction](#)

² Merri-bek City Council [Planning Scheme Review 2022 Report](#)

Both the SBO and LSIO are designed to ensure that development maintains the free passage and temporary storage of floodwaters, minimises flood damage, is compatible with the flood hazard and local drainage conditions and will not cause any significant rise in flood level or flow velocity.

Note: The *Planning Scheme Review 2022* recommended a preliminary investigation into the permeability of hot spot areas, including the relationship with the design of development on private land and flooding impacts to these areas.

2.2.2 Exercising

Arrangements for exercising this Plan will be at the discretion of the MEMPC in consultation with the MFSPC. This Plan should be regularly exercised, preferably on an annual basis, and reviewed following a significant event.

Planned exercises:

- Exercise Trigger: 2023 – Multi agency, multi council exercise – working collaboratively in a large scale storm event
- Exercise Malu: 2025 – Exercise with council and the Fawkner SES Unit to exercise working collaboratively during a storm event on a local level.

2.2.1 Flood intelligence

Flood intelligence supports decision making and planning by providing reliable and accurate information relating to:

- the expected level, depth, and velocity of floodwater and its consequences
- determination of actions to be undertaken in response to the identified consequences.

DEECA maintains the [FloodZoom flood intelligence platform](#). Inquiries regarding FloodZoom access should be directed to accounts@floodzoom.vic.gov.au.

2.2.2 Flood and storm warning

Arrangements for severe weather and flood warnings are contained within the [SEMP](#), [SEMP Flood Sub-Plan](#), [SEMP Storm Sub-Plan](#) and on the [Bureau of Meteorology \(BoM\) website](#).

Specific details of local flood and storm warning system arrangements are provided in [Appendix E](#).

2.2.3 Local knowledge

Local knowledge is a critical element of planning. People and organisations with experience of historic flood or storm events that have affected the municipality can provide valuable local information about hazards, incidents and how they may evolve. This information is commonly referred to as local knowledge. This plan aims to ensure that planners and responders capture appropriate local knowledge before, during and after incidents.³

There are no official community observers within Merri-bek however local knowledge is incorporated into this plan through consultation with local response agencies.

Field Observers provide local knowledge to VICSES and the Incident Control Centre regarding local insights and the potential impacts and consequences of an incident and may assist with the dissemination of information to community members.

³ [VICSES Policy 10.02 Local Knowledge V4.0](#)

As an incident escalates from local control to a larger incident management structure, it is essential that local knowledge capability is retained within the overall structure. This should include how local subject matter experts are embedded in to divisional and sector command structures.

Part 3. Response and relief

3.1 Introduction

3.1.1 Activation of response

VICSES may be notified of flood and storm incidents through several sources, but the most common source is calls received via 132 500 or if the emergency is life threatening, Triple Zero (000). Other sources are via other emergency management agencies and local government. In most cases, these events are of a small scale (a level 1 incident⁴), which local VICSES units manage without significant outside support.

In the case of a more significant level 2 (regional level) or level 3 (high complexity and may have statewide implications) incident, flood and storm response arrangements may be activated by the VICSES North West Metro Regional Duty Officer (RDO) or Regional Agency Commander (RAC).

The VICSES Incident Controller (IC)/RDO/RAC will activate agencies as required as documented in the [SEMP Flood Sub-Plan](#) or [SEMP Storm Sub-Plan](#).

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 or storm within the City of Merri-bek. These agencies will be engaged through the IEMT.

The general roles and responsibilities of supporting agencies are as agreed within the: [MEMP](#), [SEMP role statement](#), [SEMP Flood Sub-Plan](#), [SEMP Storm Sub-Plan](#), Regional Flood Sub-Plan, and Regional Storm Sub-Plan (under development).

3.1.3 Municipal Emergency Coordination Centre / Council Emergency Operations Group (used interchangeably)

If established, liaison with the emergency coordination centre will be through the established Division/Sector Command and through Municipal involvement in the IEMT, in particular the Municipal Emergency Response Coordinator (MERC). The VICSES RDO or ICC will liaise with the centre directly if they have not established division or sector command arrangements.

The function, location, establishment and operation of an emergency coordination centre is detailed in the [MEMP](#).

3.1.4 Escalation

Many flood or storm 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 [SEMP](#).

⁴ For a detailed definition of the levels of incidents, refer to Table 3 Levels of Incidents within the [State Emergency Management Plan](#).

3.2 State Emergency Management Priorities

The [State Emergency Management Priorities](#) shall form the basis of incident action planning processes.

3.3 Command, control, coordination, consequences, communication, community

Arrangements in this MFSEP are consistent with the 6 c's detailed in [SEMP](#), the State and Regional Flood and Storm Emergency Sub-Plans and the [MEMP](#). For further information, refer to the Emergency management phases in the [SEMP](#) and a one page summary on [the 6 c's](#).

Specific details of arrangements for this plan are to be provided in [Appendix C](#).

3.3.1 Control

Sections 5(1)(b) and 5(1)(c) of the [Victoria State Emergency Service Act 2005](#) detail the authority for VICSES to plan for and respond to storms and floods.

The Role Statement within the SEMP identifies [VICSES](#) in its response functions as the Control Agency for flood and storm. It identifies [DEECA](#) as the Control Agency responsible for dam safety as well as reticulated water and wastewater (sewerage) service.

All flood and storm response activities within the City of Merri-bek 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 delegated representative.

3.3.2 Incident Controller (IC)

On the advice of the Bureau of Meteorology (BoM) or other reliable source, that a flood or storm event will occur or is occurring, VICSES as the control agency will appoint an Incident Controller (IC). The IC is typically from VICSES but may be from another agency when resources are constrained. The IC will lead and manage incident-tier response control including:

- controlling the operational elements of the response
- providing operational leadership during the incident at a static location or a dynamic incident, including the tactical resolution.

The IC responsibilities are as defined in the [SEMP](#). While providing support to the IC, support agencies retain command of their own people.

3.3.3 Incident Control Centre (ICC)

As required, the IC will establish an Incident Control Centre (ICC). The ICC is where they manage the incident response command and control functions from. The IC will make the decision to activate the ICC and when it should commence operations. The ICC may be activated in advance based on the severity of warnings and in accordance with VICSES readiness arrangements:

[VICSES readiness and activation levels - flood](#)

[VICSES readiness and activation levels – severe weather](#)

Pre-determined Incident Control Centres for flood and storm (as per JSOP 02.03) are:

- **Sunshine ICC (VICSES)**
239 Proximity Drive
Sunshine West Vic 3020
Phone 03 9256 7299
iccsunes.inc@icc.vic.gov.au
- **Dandenong ICC (CFA)**
45 Assembly Drive
Dandenong South
Phone 03 9767 3800
iccdan.inc@icc.vic.gov.au

3.3.4 Divisions and sectors

To ensure that effective command and control arrangements are in place, the IC may establish divisions and sectors depending upon the complexity of the event and resource capacities.

The location of divisions and sectors are chosen based on their suitability for maintaining operations during a flood and may differ from those used in other types of emergencies. The IC may establish divisions at the following locations to assist with the management of flooding within Merri-bek:

- Fawkner Unit LHQ, Sydney Road, Hadfield
- Essendon Unit LHQ, Bruce St, Moonee Ponds
- Brimbank Unit LHQ, Stadium Drive, Keilor Park

Sector command locations are to be allocated on an as needs basis.

3.3.1 Local knowledge and subject matter expertise in divisions and sectors

The plan recognises that personnel operating division and sector command points will often be from an agency that is not VICSES (the control agency) and may lack local knowledge associated with the nature of storms or flooding, and what resources are best deployed to certain types of requests for assistance.

To account for this, planning and rostering will aim to ensure VICSES is represented by local members or if unavailable, other VICSES members with appropriate skills and experience, within DCP/SCP rosters.

Division and sector commanders should proactively seek to understand and incorporate local knowledge into their decision-making prior to and throughout each shift.

3.3.1 Incident Management Team (IMT)

The Incident Controller will form an Incident Management Team (IMT) to support the IC in managing the incident-tier operational response to the emergency. This includes the functional areas of planning, intelligence, public information, operations, investigation, logistics and finance functions. Where possible, the IMT will be joint-agency, pre-planned and include personnel with relevant local knowledge.

For more detail, refer to the [SEMP](#) on IMTs and Incident Management Systems (IMs).

3.3.2 Incident Emergency Management Team (EMT)

The IC will establish a multi-agency Incident Emergency Management Team (IEMT) to support the IC in managing the effects and consequences of the flood or storm emergency.

The IEMT consists of key personnel (with appropriate authority) from stakeholder agencies and relevant organisations who need to be informed of strategic issues related to incident control. They can provide the IC with high level strategic guidance and policy advice for consideration in developing incident management strategies.

Organisations within the IEMT, including Merri-bek City Council, will provide an Emergency Management Liaison Officer (EMLO) to the ICC if and as required as well as other staff and / or resources identified as being necessary, within the capacity of the organisation.

For more detail refer to the [MEMP](#) and [SEMP](#) for guidance on local EMLO arrangements and IEMTs.

3.3.3 On Receipt of a Flood Watch / Severe Weather Warning

VICSES [SOP008 Severe Weather Notification and Activation Process](#) and [SOP009 Flood Notification and Activation Process](#) outline in detail the actions that VICSES will undertake upon receipt of a Flood Watch or Severe Weather Warning.

Current VICSES readiness and activation levels:

- [Flood](#)
- [Severe Weather](#)

Additionally, the VICSES Regional Duty Officer (until an incident controller is appointed) or IC will undertake actions as defined within the flood intelligence cards ([Appendix C](#)). General considerations by the RDO/IC will be as follows:

- Review flood intelligence to assess likely flood consequences.
- Monitor weather and flood information using the range of intelligence tools including <http://www.bom.gov.au/> and [Melbourne Water Rainfall and river levels](#).
- Assess command and control requirements.
- Review local resources and consider needs for further resources regarding personnel, property protection, flood rescue and air support. Keeping in mind geographic extent of warning area and the potential for resource constraints if there may be wide-ranging effects across the region or state.
- 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 IEMT) and open if required.
- Ensure flood warnings and community information is prepared and issued to the community where required.
- Flood (riverine and flash) warnings are managed by the RDO/RAC.
- Severe Weather / Thunderstorm warnings are managed by SDO/SAC.
- Develop media and public information management strategy.
- Monitor watercourses and undertake reconnaissance of low-lying areas (consider [field observers](#)).

- Ensure flood mitigation works are being checked by owners.
- Develop and issue incident action plan, if required.
- Develop and issue situation report, if required.

3.3.4 On receipt of the first and subsequent Flood Warnings

VICSES RDO (until an incident controller is appointed) or IC will undertake actions as defined within the flood intelligence cards ([Appendix C](#)). The IC/VICSES RDO will have general regard for the following considerations:

- Develop an appreciation of current flood levels and predicted levels. Are floodwaters rising, steady, peaking or falling?
- Review flood intelligence to assess likely flood consequences.

1. Consider which areas may be at risk of:

- inundation
- isolation
- indirect effects
 - utilities (power, gas, water, telephone, internet, sewerage)
 - health
 - transport
 - emergency service infrastructure interruption.

2. Consider 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:

- 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.

3. Liaise with relevant asset owners as appropriate (such as water, power utilities, telecommunications).

4. Implement response strategies as required based upon flood consequence assessment.

5. Continue to monitor the flood situation – <http://www.bom.gov.au/vic/flood/>

6. Continue to conduct reconnaissance of low-lying areas.

7. Liaise with relevant flood mitigation infrastructure managers.

3.4 Community information, warnings and media liaison

Guidelines for the distribution of community/public information and warnings are contained in the North West Metro Region Flood and Storm Sub-Plans and the SEMP [Flood](#) and [Storm](#) Sub-Plans.

The IC, through the Public Information Section established at the ICC, will manage media communication. If the ICC is not established, the VICSES RDO will manage all media communication. Merri-bek City Council will work with the RDO/IC to assist with the dissemination of public messaging and/or warnings to ensure that consistent and timely messaging occurs.

The [Merri-bek Connectors Program](#) is run by Merri-bek City Council, enabling Council to speak with and hear from community members who speak languages other than English. Merri-bek Connectors sit between Merri-bek City Council and the community, and:

- Ask the community what information they need
- Share information from the Council with their community
- Tell us how we can improve messages and translations from the Council
- Help to facilitate effective communication between Council and our multicultural communities.

The Merri-bek Connectors can be activated via communications@merri-bek.vic.gov.au or phone 03 9240 1111. Ask to speak with Mara Baviera or Martha Martin.

Refer to [Appendix E](#) for more details on public information and warnings for Merri-bek.

3.5 Initial Impact Assessment (IIA)

In accordance with the [SEMP](#) and [SEMP Flood Sub-Plan](#) (3.6.11 Initial impact assessment), the IC should initiate an initial impact assessment during the first 48 hours of an emergency. It should capture the nature and scale of the flood impact on people, community infrastructure, and the economic, natural, and built environments, in order that emergency relief and early recovery activities can commence. This information may then be used to provide the basis for further needs assessment and recovery planning by ERV and recovery agencies.

3.6 Preliminary deployments

When flooding is expected to be severe enough to cut access to towns, suburbs and/or communities the IC will consult with relevant agencies to ensure that resources are in place if required to provide emergency response. These resources may include but not limited to emergency service personnel, food items and non-food items such as medical supplies, shelter, assembly areas, relief centres.

3.7 Response to flash flooding

Flash flooding can be defined as flooding that occurs within six hours or less of the flood-producing rainfall within the affected catchment. This may result in isolation of individuals and communities as time to warn and respond to flash flooding is limited⁵. The safest place to be in a flash flood is well away from the affected area. Accordingly, pre-event planning for flash floods should commence with an assumption that evacuation is the most effective strategy, provided evacuation can be safely implemented.

⁵ [AFAC Emergency Planning and Response to Protect Life in Flash Flood Events – Guideline v2.0](#)

Emergency management response to flash flooding should be consistent the [SEMP Storm Sub-Plan](#).

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

- Determine if there are barriers to evacuation by considering warning time, safe routes and resources available.
- 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.
- Where it is likely people will become trapped by floodwaters due to limited evacuation time or options the IC needs to ensure they provide safety advice to people at risk. This advice should advise people not to attempt to flee by entering floodwater. If people become trapped, it may be safer to seek the highest point within the building and to telephone 000 if they require rescue.
- Where this plan has identified buildings that are known to be structurally unsuitable, the plan needs to provide for an earlier evacuation trigger (return to step 1 of this cycle).
- If an earlier evacuation is not possible then the IC must make specific preparations to rescue occupants trapped in structurally unsuitable buildings either pre-emptively or as occupants call for help.
- Contact the Merri-Bek MERC and MEMO at the earliest opportunity to allow for relief preparation to commence.

Due to the rapid development of flash flooding it will often be difficult, to establish relief centres ahead of actually triggering the evacuation. While this is normal practice it should not be used as a reason for not adopting evacuation.

Refer to [Appendix C](#) for response arrangements for flash flood events.

3.8 Evacuation for all flooding

Where practical, evacuation is the primary strategy for ensuring the safety of at-risk communities. The purpose of evacuation is for people to relocate temporarily from areas at risk of the consequences of flooding, to places of safety. It is essential to assess risks involved in undertaking an evacuation, as evacuation may not always be the most appropriate action. This will ensure that people are not exposed to more hazardous environments because of their evacuation, for example, travelling through deep, fast-flowing floodwater⁶.

Under the [SEMP](#), Victoria Police has the responsibility for evacuation ([Evacuation Manager](#)) – in consultation with the control agency and other expert advice. EMV has developed a standardised procedure for evacuation under [JSOP J03.12](#).

The IC decides whether to warn people to evacuate within a specified timeframe or whether it is necessary to advise them to evacuate immediately. The IC must make this decision having regard for the requirements of the JSOP.

Once the IC decides to recommend evacuation, the Victoria Police Evacuation Manager is 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.

⁶ [Australian Disaster Resilience - Flood Emergency Planning for Disaster Resilience Handbook - First edition 2020](#)

Victoria Police 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 [Appendix D](#) and the [MEMP](#) for additional local evacuation considerations for Merri-bek.

Except in limited circumstances, evacuation is not compulsory in Victoria⁷. Recent historic floods that were managed under current legislation and emergency management arrangements, demonstrated that some people will choose not to evacuate. Therefore, this plan must consider arrangements for managing these people in the event they require assistance or rescue. Considerations include:

- Registering persons who intend not to evacuate ([refer to Appendix D](#))
- Providing additional information that may assist them in making a decision to evacuate
- Identifying vulnerable people who may be willing to evacuate if assisted.

3.9 Flood rescue

Under the [SEMP Table 9: Control Agencies for response](#) the control agency for rescue from land and water is Victoria Police, which operates the Rescue Coordination Centre. VICSES is a support agency for search and rescue on land and water evacuations and incidents involving mass casualties.

VICSES may conduct flood rescues. Appropriately trained and equipped VICSES units or other agencies that have appropriate training, equipment and support 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.

Victoria Police Rescue Coordination Centre should be notified of any rescues that occur: (03) 9399 7500. On occasion, Victoria Police may opt to respond a field capability of its rescue coordination centre to a location near the emergency. It may also work with the Triple Zero Victoria to deploy its dispatch capability to the same location to enhance rescue coordination and dispatch. Details in this plan may assist Victoria Police and Triple Zero Victoria in undertaking this function in the field or from the primary rescue coordination centre.

3.10 Aircraft management

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

The IC controls the conduct of air support operations and may request aircraft support through the State Air Desk located at the SCC. The Air Desk Supervisor will establish priorities.

⁷ Powers to compel evacuation rely on the Minister making a declaration of a State of Disaster under section 23(2)(e) of the [Emergency Management Act 1986](#). However, section 23(7) prevents these powers be used to compel a person to evacuate if they have a pecuniary interest in the land or building or goods or valuables on the land or in the building.

3.11 Resupply

Communities, neighbourhoods or households can become isolated during floods and in some cases, storms. This can be 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.

3.12 Essential infrastructure and property protection

Essential community infrastructure and property such as residences, businesses, roads and utilities may be affected in the event of a flood.

Merri-bek City Council does not maintain a stock of sandbags but can procure sand in most circumstances. Limited supplies are available through the VICSES Fawkner Unit and/or Sunshine Office. The IC will determine the priorities related the use of sandbags, which will be consistent with the strategic priorities.

The [VICSES Operations Management Manual](#) sets out the principles for sandbag use and allocation to the community. These principles do not apply to the use of sandbags by VICSES to construct and/or alter a levee. Refer to [SOP036 Construction, Removal or Altering of Levee and Removal of Debris](#) for further detail.

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 historical 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 within appropriate approval frameworks in consultation with the CMA, LGA and Victoria Police.

The IC will ensure that owners of essential community infrastructure are kept advised of the flood situation. Essential community infrastructure providers must keep the IC informed of their status and ongoing ability to provide services.

Contact your local VICSES representative for the most current sandbag guidelines or download it from IMT Toolbox in [EM-COP](#).

Refer to [Appendix C](#) for further specific details of essential infrastructure requiring protection and location of sandbag collection point(s). Additional information may be found in the Merri-bek City Council Business Continuity Plan⁸ (restricted access).

⁸ D21/145242

3.13 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 Merri-bek.

3.14 Road closures

Merri-bek City Council, Victoria Police and the Department of Transport and Planning (DTP) will carry out their formal functions of road closures including observation and placement of warning signs, road-blocks to its designated local and regional roads, bridges, walking/bike/shared trails. Merri-bek City Council staff should also liaise with and advise DTP/VicRoads as to the need or advisability of erecting warning signs and/or of closing roads and bridges under its jurisdiction. DTP/VicRoads are responsible for designated main roads and highways and councils are responsible for the designated local and regional road network.

DTP/VicRoads and Merri-bek will provide community information direct to the public regarding road closures. Information will be updated on the [VicTraffic website](https://traffic.vicroads.vic.gov.au) (<https://traffic.vicroads.vic.gov.au>).

Refer to [Appendix C](#) for specific details of potential road closures.

3.15 Dam spilling / failure

DEECA is the control agency for dam safety incidents. This includes breach, failure and potential breach or failure of a dam. However, VICSES is the control agency for any resultant flooding.

All major dams have a Dam Safety Emergency Plan (DSEP) implemented by the managing entity. DSEPs identify possible dam failure scenarios and provide direction on the order and detail of the necessary communications and incident management tasks to be initiated. They also refer to intelligence and maximum inundation extent mapping arising from detailed dam break analyses. Intelligence can include travel times to key locations, maximum depths and velocities and the time to reach those maxima at those key locations, as well as other information that would inform the response effort. Close communication with the dam manager is essential in the event of a dam safety incident.

Information on Greenvale Reservoir, a major dam with potential to cause structural and community damage, can be found in [Appendix A](#).

3.16 Wastewater related public health issues and critical sewerage assets

Inundation of critical sewerage assets and sewerage pump stations, as occurred when the Merri Creek inundated nearby areas in January 2024, may result in water quality problems within Merri-bek. Where this is likely to occur or has occurred, the responsible agency for the critical sewerage asset should undertake the following:

- Advise VICSES and the Merri-bek MEMO 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.

The responsible agency for critical sewage assets in the municipality is [Yarra Valley Water](#).

It is the responsibility of the Merri-bek City Council Environmental Health Officer to inspect and report to the ICC and the MEMO on any water quality issues relating to flooding.

3.17 Access to technical specialists

VICSES manages contracts with private technical specialists who can provide technical assistance in the event of flood operations or geotechnical expertise. Refer to [VICSES SOP061](#) for the procedure to engage these specialists.

3.18 Relief

Relief is the provision of assistance to meet the essential needs of individuals, families and communities during and in the immediate aftermath of an emergency.

Municipal councils are responsible for municipal relief coordination as per the [Role Statement](#) for municipal councils within the [SEMP](#). Refer to the for further information.

3.19 Activation of emergency relief

The IC is responsible for activating relief arrangements through the Municipal Recovery Manager (MRM). The decision to recommend the opening of an emergency relief centre sits with the IC.

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 or storm.

Refer to the [SEMP Roles and Responsibilities - Relief](#) for more detail of services that may be provided and the responsible coordinating agencies.

Details of the relief arrangements and suitable relief facilities identified for use during floods are detailed in the [Merri-bek Relief & Recovery Sub-Plan](#).

3.20 Animal welfare

Matters relating to the welfare of livestock and companion animals (including feeding and rescue), requests for emergency supply and/or delivery of fodder to stranded livestock, livestock rescue and matters relating to the welfare of wildlife are to be referred to [Agriculture Victoria](#).

The [Victorian Emergency Animal Welfare Plan](#) provides a strong framework for responding to animal welfare emergency needs in Victoria. The contact number for Victorian emergency animal welfare concerns or for more information is **136 186**.

Part 4. Recovery

4.1 General

As per the role statement for municipal councils within the SEMP, municipal councils are responsible for coordinating local level recovery activities. They are also the lead agency to coordinate post emergency needs assessment to determine long term recovery needs (Post Emergency Needs Assessment).

Arrangements for recovery from a flood and/or storm event within the City of Merri-bek are detailed in the Merri-bek [MEMP](#) and [Relief & Recovery Sub-Plan](#).

4.2 Transition from response to recovery

The [SEMP](#) sets out the transition to recovery arrangements. During the response phase, the IC will ensure they develop a plan for transition from response to recovery. The IC at the municipal tier should take a lead role in facilitating transition to recovery, working with the MRM, as it marks the end of the response phase which the Controller leads and manages.

4.3 After action review – lessons management

Lessons management is the critical process of learning from how we worked before and during an event, to improve the system for next time.

Depending on the size and scale of the flood event, VICSES will normally coordinate a debrief or after action review (AAR) of flood operations as soon as practical following an event. Under the [SEMP Role statement - Victoria Police](#), it is the responsibility of the Municipal Emergency Response Coordinator (MERC) to ensure that this occurs.

When the flood is being managed as a level 3 event, it may be that Emergency Management Victoria in consultation with VICSES assumes responsibility for debriefing.

All agencies involved in the flood incident should be represented at the debrief and/or AAR.

Appendix A – Flood threats for Merri-bek

General

In coming decades, Australia is projected to experience more intense short-duration heavy rainfall events, even in regions where the average rainfall decreases or stays the same. This will lead to a complex mix of effects on streamflow, and associated flood and erosion risks, including increased risk of small-scale flash flooding. Regions in southern Australia, which are expected to see continued long-term drying, may still experience increases in extreme rainfall.⁹

Merri-bek is bordered by Moonee Ponds Creek to the west, Merri Creek to the east, Park Street to the south and the Western Ring Road to the north. Merri Creek, Merlynston Creek, Edgards Creek and Moonee Ponds Creek (Yarra Catchment) make up the majority of the waterways within the municipality.

For catchments generally larger than 60ha, Melbourne Water manages the waterways, open drainage channels and underground drains, is responsible for ownership and maintenance of wetlands and retarding basins, including various assets within Merri-bek, and for managing the flood risk associated with waterway and drainage assets.

Merri-bek City Council is responsible for the local drainage network, mostly comprised of underground drains, pits, kerbs, channels and road pavements in catchments typically less than 60ha. Merri-bek City Council also owns and maintains various Water Sensitive Urban Design (WSUD) assets which serve multiple functions, including drainage.

VicRoads, VicTrack and some other government agencies also own and maintain public drainage assets in Merri-bek, however, Melbourne Water and Merri-bek City Council manage the majority of the drainage assets.

Merri-bek faces several flood management and drainage challenges, broadly falling under three categories:

1. Stormwater overland flow in the local drainage catchments, where approximately 9,000 properties may be affected (Merri-bek City Council).
2. Stormwater overland flow in the main drainage catchments (Melbourne Water).
3. Riverine flooding (Melbourne Water).

In total, there are more than 16,000 properties with a Special Building Overlay (SBO) or Land Subject to Inundation Overlay (LSIO) and therefore known to potentially be at risk of flooding during 1% AEP events. Overland flows impact properties during high intensity flood events where existing drainage infrastructure is over capacity.

Urban development occurred over a long period where community expectations and the design standard of stormwater drainage systems and subdivisional layouts varied from current standards. As a result, most stormwater drains were designed for a 20% AEP event, with overland flow paths not required. Many drainage lines lack a continuous and unobstructed overland flow path to cater for flows above capacity of the piped system. The ageing infrastructure, primarily outdated terracotta pipes in varied conditions, can cause the drainage system to back up, with buildings and other infrastructure at risk of flood damage. Any significant maintenance or upgrade proves challenging as access to underground assets for inspection and maintenance becomes more difficult over time. Increasing land and building instability, urban development density and runoff volumes, as well as the steep slopes and super saturation following extreme rain events generates ponding of water in laneways and upstream backflows which exacerbate the issues.

⁹ [Bureau of Meteorology: State of the Climate 2022](#)

Major waterways and drains

- Merri Creek** rises in Melbourne's outer north between Craigieburn and Kalkallo, flowing south along the boundaries of Hume and Whittlesea receiving several creeks, tributaries and drains before entering Merri-bek at Mahoneys Road, Fawkner. Merri Creek forms the eastern boundary of the municipality, flowing through Fawkner and Coburg North where it receives Edgars Creek. Merri Creek continues south through Coburg, Brunswick East and Fitzroy North before exiting the City near St Georges Road. Merri Creek discharges into Yarra River at Yarra Bend Park in Fairfield. See [Appendix F](#) for a schematic of Merri Creek.
- Moonee Ponds Creek** forms the western boundary, rising in Oaklands Junction east of Mickleham Road in the City of Hume and entering Merri-bek at Glenroy and the Jacana Retarding Basin, receiving Chapman Ave Drain, Westbreen Creek and Melville Main Drain as it forms the western boundary of the municipality. Moonee Ponds Creek leaves Merri-bek south of Brunswick Road in Brunswick West and continues on to flow into the Yarra River in Docklands. See [Appendix F](#) for a schematic of Moonee Ponds Creek.
- Merlynston Creek** flows through the centre of the City of Merri-bek, entering the Municipality from Hume at the Western Ring Road and the Comm. Serum Laboratories Retarding Basin. It flows southeast through Northern Memorial Park before receiving Campbellfield Creek at the Fawkner Crematorium & Memorial Park. The Creek is then piped underground where it joins Merri Creek at Coburg North.
- Edgars Creek** is a tributary of Merri Creek, beginning in two branches in the City of Whittlesea at Wollert before converging and continuing south through Epping, Lalor and Thomastown before entering the City of Darebin and continuing through Reservoir before where it enters the City of Merri-bek, discharging into Merri Creek north of Murray Road, Coburg.

Catchment schematics for Merri and Moonee Ponds creeks are included within [Appendix G](#). The creeks, channels and drains that flow through, or form a boundary of the City of Merri-bek are contained within the table below.

Melbourne Water Drains & Waterways	Suburb/s	Melbourne Water Drains & Waterways	Suburb/s
Acacia St Drain	Glenroy	Lygon St Main Drain Park St Diversion	Brunswick & Brunswick East
Albion St Main Drain	Brunswick & Brunswick West	Lynch Rd Main Drain	Fawkner & Hadfield
Campbellfield Creek	Coburg North, Fawkner, Glenroy & Hadfield	Major Rd Drain	Fawkner & Hadfield
Cardinal Rd Drain	Glenroy	Melville Main Drain	Brunswick West, Coburg, Pascoe Vale & Pascoe Vale South
Chapman Ave Main Drain	Glenroy & Oak Park	Merlynston Creek	Glenroy & Hadfield
Coonans Rd Main Drain	Brunswick West & Pascoe Vale South	Merlynston Main Drain	Coburg North, Hadfield & Pascoe Vale
Edgars Creek	Coburg North	Merri Creek	Coburg, Coburg North, Fawkner & Fitzroy North
Elizabeth St Main Drain	Coburg & Coburg North	Middle St Drain	Hadfield
Fawkner East Drain	Coburg North & Fawkner	Moonee Ponds Creek	Brunswick West, Glenroy, Gowanbrae, Pascoe Vale & Pascoe Vale South
Fawkner North Drain	Fawkner & Glenroy	Royal Park Main Drain	Brunswick West
Gladstone Park Drain	Gowanbrae	South St Drain	Hadfield
Glenlyon Rd Drain	Brunswick East & Fitzroy North	The Avenue Main Drain	Coburg
Harding St Main Drain	Coburg	West St Drain	Glenroy, Hadfield & Pascoe Vale
Hope St Main Drain	Brunswick & Brunswick West	Westbreen Creek	Glenroy & Pascoe Vale

Table A1 – Melbourne Water Drains and Waterways within or bordering the City of Merri-bek

Historic floods

Significant floods (with high flood gauge levels and likely flooding consequences to property and infrastructure) to have occurred within the City of Merri-bek are as follows in the table below. Where available, radar loops of the storm can be accessed by clicking on the flood event date.

Event	Moonee Ponds Creek at Jacana R/B (229665A)		Merlynston Creek at Fawkner (229402A)		Edgars Creek at Reservoir (229610A)	Merri Creek at Coburg East (229645A)		Merri Creek at Northcote (229149A)	
	Rainfall at Gauge	Creek Height	Rainfall at Gauge	Creek Height	Creek Height	Rainfall at Gauge	Creek Height	Rainfall at Gauge	Creek Height
Normal Water Level	-	0.3m	-	0.2m	-	-	0.5m	-	0.3m
Minor Flood Class	-	-	-	-	-	-	2.9m	-	3.2m
Moderate Flood Class	-	-	-	-	-	-	3.4m	-	3.8m
Major Flood Class	-	-	-	-	-	-	4.8m	-	5.0m
23 th September 1916	-	-	-	-	-	-	4.51m	-	-
1 st December 1934	-	-	-	-	-	-	4.85m	-	-
20 th October 1937	-	-	-	-	-	-	2.76m	-	-
18 th March 1946	-	-	-	-	-	-	4.36m	-	-
15 th July 1952	-	-	-	2.36m	-	-	4.48m	-	-
10 th November 1954	-	-	-	-	-	-	4.25m	-	-
18 th September 1960	-	1.60m	-	-	-	-	3.97m	-	-
26 th January 1963	-	-	-	2.67m	-	-	-	-	-
13 th July 1963	-	-	-	-	-	-	4.67m	-	-
9 th November 1971	-	-	-	-	-	-	3.51m	-	-
15 th May 1974	-	-	-	-	-	-	4.74m	-	-
7 th April 1977	-	-	-	-	0.69m	-	4.46m	-	4.81m
8 th August 1978	-	-	-	-	0.46m	-	2.55m	-	3.29m
16 th October 1983	-	-	94mm / 40 hrs	-	0.69m	86mm / 34 hrs	3.18m	-	3.64m
30 th July 1987	-	-	65mm / 32 hrs	-	0.57m	59mm / 33 hrs	3.91m	-	3.98m
11 th June 1989	-	-	36mm / 22 hrs	-	0.66m	32mm / 23 hrs	3.98m	-	3.91m
18 th July 1990	-	-	39mm / 7 hrs	-	0.62m	46mm / 7 hrs	3.27m	-	3.34m
28 th December 1993	56mm / 39 hrs	0.22m	130mm / 38 hrs	-	0.57m	125mm / 38 hrs	2.95m	-	3.69m
3 rd December 2003	8mm / 8 hrs	3.42m	95mm / 8 hrs	2.61m	-	108mm / 8 hrs	4.13m	86mm / 2 hrs	4.64m
3 rd February 2005	157mm / 28 hrs	12.57m	158mm / 28 hrs	2.45m	1.19m	135mm / 28 hrs	4.28m	133mm / 28 hrs	4.35m

Event	Moonee Ponds Creek at Jacana R/B (229665A)		Merlynston Creek at Fawcner (229402A)		Edgars Creek at Reservoir (229610A)	Merri Creek at Coburg East (229645A)		Merri Creek at Northcote (229149A)	
	Rainfall at Gauge	Creek Height	Rainfall at Gauge	Creek Height	Creek Height	Rainfall at Gauge	Creek Height	Rainfall at Gauge	Creek Height
Normal Water Level	-	0.3m	-	0.2m	-	-	0.5m	-	0.3m
Minor Flood Class	-	-	-	-	-	-	2.9m	-	3.2m
Moderate Flood Class	-	-	-	-	-	-	3.4m	-	3.8m
Major Flood Class	-	-	-	-	-	-	4.8m	-	5.0m
5th February 2011	62mm / 14 hrs	3.79m	71mm / 30 hrs	1.14m	0.95m	71mm / 27 hrs	3.08m	74mm / 15 hrs	3.09m
25th December 2011	40mm / 5 hrs	3.31m	51mm / 5 hrs	2.02m	0.13m	42mm / 5 hrs	3.33m	46mm / 5 hrs	3.68m
1st June 2013	75mm / 14 hrs	5.38m	79mm / 14 hrs	0.99m	1.29m	74mm / 14 hrs	3.85m	79mm / 14 hrs	4.21m
29th December 2016	55mm / 10 hrs	8.25m	58mm / 10 hrs	0.95m	1.63m	62mm / 10 hrs	3.64m	41mm / 10 hrs	3.89m
7th October 2022	14mm / 3 hrs	4.55m	17mm / 3 hrs	1.22m	0.95m	18mm / 3 hrs	2.93m	20mm / 3 hrs	3.13m
14th October 2022	19mm / 6 hrs	5.49m	20mm / 6 hrs	0.77m	0.89m	22mm / 6 hrs	3.72m	21mm / 6 hrs	4.03m

Table A2 – Selection of Historical Flood Events along the Moonee Ponds, Merlynston & Merri Creeks

Dam spilling / failure

Flooding resulting from failure of the following dams is likely to cause significant structural and community damage within the City of Merri-bek. 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
Greenvale Reservoir	Greenvale	Melbourne Water	27,195 ML at FSL	167.12m AHD	179 D6

Table A3 – Melbourne Water Reservoirs that pose a risk to the City of Merri-bek from Dam Failure

Appendix B – Typical flood peak travel times

Typical travel times have been collated from recorded historical events.

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

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

Where negative values are shown in the table below this indicates that a flood peak may be expected at the gauge downstream before a separate flood peak is experienced at the upstream gauge. This phenomenon may be due to the location of the thunderstorm passing through the catchment between the two gauges, or because of the urban environment found downstream causing floodwaters to enter the waterway quicker than those in a more rural setting upstream. Lastly this may be because of the existence of a retarding basin between the two gauges.

Typical travel times

Location From (gauge)	Location To (gauge)	Typical Travel Time	Comments
MOONEE PONDS CREEK			
Jacana RB	Flemington	First Peak: Flemington to peak 15 hours to 5 hours before Jacana Second Peak: Flemington to peak 1 hour before Jacana, or 1 to 5 hours afterwards	Two flood peaks occur and are generally experienced downstream earlier than upstream because of the existence of the Retarding Basin at Jacana
MERRI CREEK			
Fawkner	Coburg	Between 2 hours to 3 hours	Minor Flood
Reservoir	Coburg	Between 2 hours to 4 hours	
Coburg	Northcote	Between 1 min to 2 hours	
Fawkner	Coburg	Between 2 hours to 6 hours	Moderate Flood
Reservoir	Coburg	Between 1 hour to 3 hours	
Coburg	Northcote	Between 1 min to 2 hours	
Coburg	Northcote	Between 1 min to 2 hours	Major Flood

Table B1 – Typical Flood Travel Times between gauges on the Moonee Ponds and Merri Creeks

Historical travel times

Flood Event	Location From (gauge)	Location To (gauge)	Flood Peak Travel Time	Flood Class at
MOONEE PONDS CREEK				N/A
24 th October 2000	Jacana RB	Flemington	First Peak: Flemington peaked 6 hours before Jacana; Second Peak: 3 hours	-
23 rd March 2001	Jacana RB	Flemington	Flemington peaked 5 hours before Jacana	-
3 rd December 2003	Jacana RB	Flemington	First Peak: Flemington peaked 10 hours before Jacana; Second Peak: Both gauges peaked within an hour of each other	-

Flood Event	Location From (gauge)	Location To (gauge)	Flood Peak Travel Time	Flood Class at
3 rd February 2005	Jacana RB	Flemington	First Peak: Flemington peaked 5 hours before Jacana; Second Peak: 1 hour	-
5 th February 2011	Jacana RB	Flemington	First Peak: Flemington peaked 13 hours before Jacana; Second Peak: Flemington peaked 1 hour before Jacana	-
25 th December 2011	Jacana RB	Flemington	First Peak: Flemington peaked 15 hours before Jacana; Second Peak: Flemington peaked 1 hour before Jacana	-
1 st June 2013	Jacana RB	Flemington	3 hours	-
29 th December 2016	Jacana RB	Flemington	First Peak: 1 hour; Second Peak: 5 hours	-
MERRI CREEK				COBURG
16 th October 1983	Reservoir	Coburg	2 hours	Minor
	Coburg	Northcote	Northcote peaked 1 hour before Coburg	
30 th July 1987	Reservoir	Coburg	2 hours	Moderate
	Coburg	Northcote	2 hours	
11 th June 1989	Reservoir	Coburg	1 hour	Moderate
	Coburg	Northcote	1 hour	
18 th July 1990	Craigieburn	Coburg	4 hours	Minor
	Coburg	Northcote	1 hour	
28 th December 1993	Reservoir	Coburg	4 hours	Minor
	Coburg	Northcote	1 hour	
3 rd December 2003	Fawkner	Coburg	2 hours	Moderate
	Coburg	Northcote	Less than 1 hour	
3 rd February 2005	Fawkner	Coburg	2 hours	Moderate
	Reservoir	Coburg	2 hours	
	Coburg	Northcote	Northcote peaked 2 hours before Coburg	
5 th February 2011	Fawkner	Coburg	3 hours	Minor
	Reservoir	Coburg	1 hour	
	Coburg	Northcote	1 hour	
25 th December 2011	Fawkner	Coburg	2 hours	Minor
	Coburg	Northcote	1 hour	
1 st June 2013	Fawkner	Coburg	6 hours	Moderate
	Reservoir	Coburg	3 hours	
	Coburg	Northcote	Less than 1 hour	
29 th December 2016	Fawkner	Coburg	Coburg peaked 5 hours before Fawkner	Moderate
	Reservoir	Coburg	1 hour	
	Coburg	Northcote	1 hour	
14 th October 2022	Fawkner	Coburg	5 hours	Moderate
	Reservoir	Coburg	3 hours	
	Coburg	Northcote	Less than 1 hour	

Table B2 – Historical Flood Travel Times between gauges on the Moonee Ponds and Merri Creeks

Appendix C1 – Moonee Ponds Creek 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 Moonee Ponds Creek

Property					
Properties	7				
Residential	7				
Commercial	0				
Industrial	0				
Public Land	0				
Rural	0				
Community Infrastructure					
Essential Infrastructure					
Bus Routes	1	490 call on-demand service	Sewerage Facilities	4	Emergency Relief Points
Drainage Facilities	1	Jacana Retarding Basin			
Tourism / Recreation					
Recreation Facilities	2	Moonee Ponds Creek Trail; & Oak Park Football Club			
Government Boundaries					
Local Gov't Areas	1	Merri-bek	CMA	1	Port Phillip & Westernport
Adjacent LGAs	4	Hume; Brimbank; Moonee Valley; and Melbourne	CFA District	0	
SES Unit Area	1	Fawkner	FRV District	1	Northern

Table C1.1 – Consequence Summary of 1% AEP flood along Moonee Ponds Creek

Moonee Ponds Creek in the City of Merri-bek, and the adjoining suburbs of Gowanbrae, Glenroy, Oak Park, Pascoe Vale, Pascoe Vale South & Brunswick West are located between 4-12km north of Melbourne in an established residential area. Moonee Ponds Creek is the prominent watercourse that forms the western border to the City of Merri-bek, flowing south from the City of Hume.

From Strathmore to Flemington, Moonee Ponds Creek takes the form of an open concreted stormwater drain, aside from a section in Brunswick West between Acacia Grove and Donald Avenue. Water levels can rise and fall very quickly along Moonee Ponds Creek, with the Moonee Ponds Creek Trail subject to flooding in low lying sections. High Intensity, short duration rainfall events can cause flash flooding in and around the stormwater drains that feed Moonee Ponds Creek, while prolonged rainfall may see the creek flood. See mapping in [Appendix F](#) for more insight into flooding in the area.

Gauges and warnings

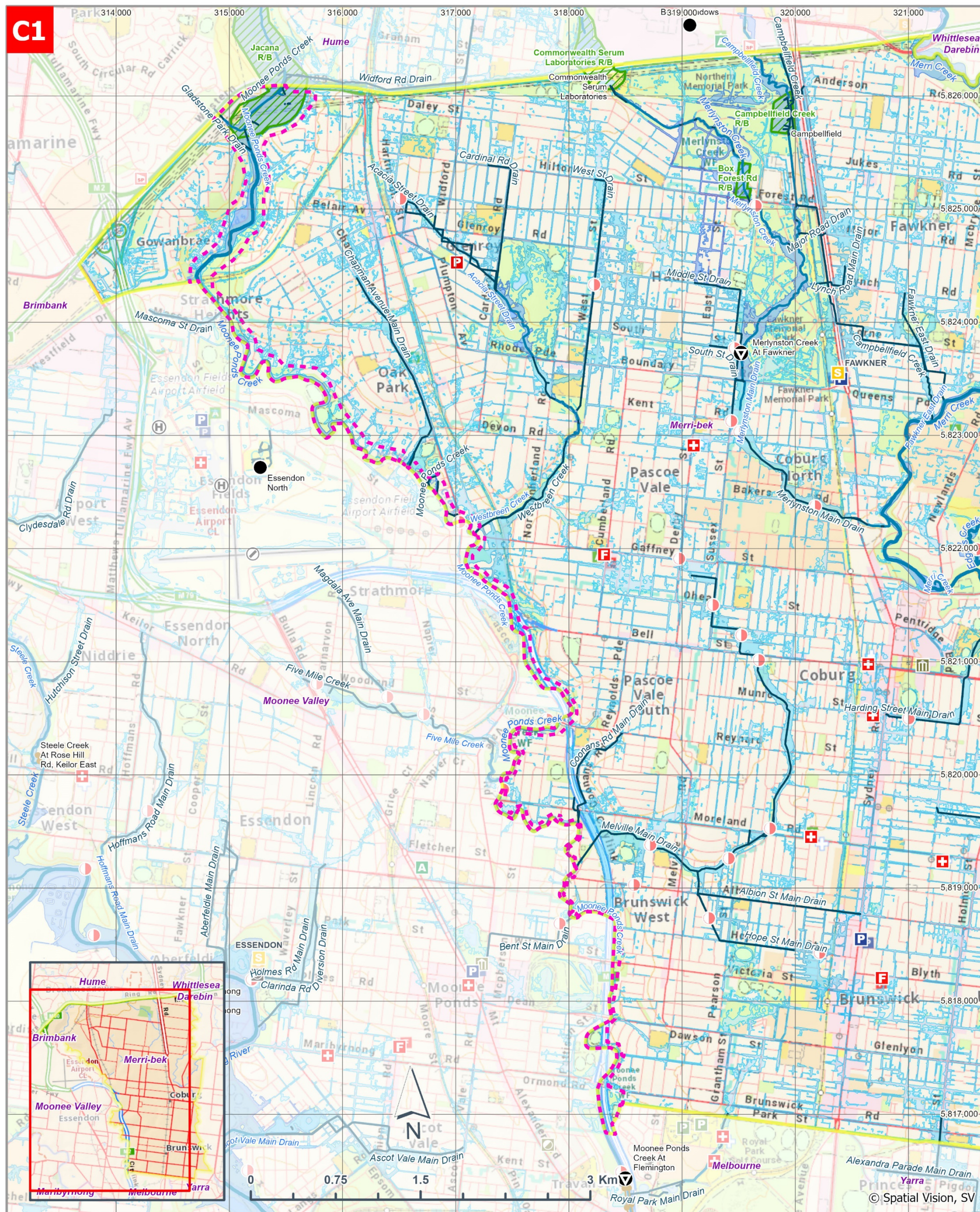
Neither the BoM nor Melbourne Water currently provides flood forecasts for the Moonee Ponds Creek. All flood response actions must therefore be driven by rainfall and / or river level observations. Telemetered water level / flood gauges are located at Jacana and Flemington within the Moonee Ponds Creek catchment. See [Appendix B](#) for typical flood travel times for Moonee Ponds Creek.

Gauge	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Moonee Ponds Creek at Broadmeadows	229665A	Jacana Retarding Basin near Embankment, Glenroy	✓	✓	6 D12
Moonee Ponds Creek at Flemington	229643A	West side of the channel along the Moonee Ponds Creek Trail near Delhi Ct, Travancore	✓	✓	29 B12
Essendon North	586182	North Essendon Service Reservoirs on Lebanon St, Essendon Fields		✓	16 D7
Essendon Airport AWS	86038	Essendon Airport at Perimeter Rd, Essendon Fields		✓	16 E8
Greenvale Reservoir	586028	Greenvale Reservoir, entrance off Somerton Road, Greenvale		✓	179 E8

Table C1.2 – Gauges within the Moonee Ponds Creek 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>. The Bureau of Meteorology's website also links a number of these gauges at: http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDV60201.html. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/vic/warnings/index.shtml?ref=hdr> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

Map of flood risk along the Moonee Ponds Creek in Merri-bek



Moonee Ponds Creek flood modelling completed by Melbourne Water, Jan 1996. Stormwater drainage flood modelling completed by Engeny, May 2022. Map produced by VICSES: 29/02/2024 2:26 PM

**CITY OF
MERRI-BEK**
1% AEP (100yr ARI) Flooding
**C1. Areas of flood risk along
Moonee Ponds Creek**



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Figure C1 – Areas of flood risk along Moonee Ponds Creek in the City of Merri-bek and area covered by this appendix

Properties at risk

This Property Flood Risk Table is presented by VICSES for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by VICSES. 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 listed in the table below are at risk from flooding along Moonee Ponds Creek 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 Moonee Ponds Creek (Melbourne Water, January 1996) flood mapping and risk assessment program.

Properties at risk from Flooding along Moonee Ponds Creek during a 1% AEP event				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
2/1A	John Street	Oak Park	Moonee Ponds Creek	Riverine
3/1A	John Street	Oak Park	Moonee Ponds Creek	Riverine
4/1A	John Street	Oak Park	Moonee Ponds Creek	Riverine
1/2A	John Street	Oak Park	Moonee Ponds Creek	Riverine
3/2	Sylvester Street	Oak Park	Moonee Ponds Creek	Riverine
4/2	Sylvester Street	Oak Park	Moonee Ponds Creek	Riverine
5/2	Sylvester Street	Oak Park	Moonee Ponds Creek	Riverine
Total				
7				

Table C1.3 – Properties at risk of flooding along the Moonee Ponds Creek catchment in the City of Merri-bek

Isolation

No major isolation risks exist for areas around Glenroy, Gowanbrae, Oak Park, Pascoe Vale, Pascoe Vale South or Brunswick West during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

Essential infrastructure

There are several sewer emergency relief points adjacent to Moonee Ponds Creek that may be discharged during intense rainfall events.

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 Merri-bek is available via the website at: https://www.ptv.vic.gov.au/assets/default-site/more/maps/metropolitan-local-area-maps/37_Merri-bek_LAM_July-2022-NN-v2.pdf

Apart from the roads outlined below, all other essential infrastructure and services areas around Moonee Ponds Creek 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 along Moonee Ponds Creek. Check the VicTraffic website for more details: <https://traffic.vicroads.vic.gov.au/>

DTP (VicRoads) Roads flooded in a 1% AEP (100yr ARI) event

- Nil expected in City of Merri-bek

Table C1.4 – DTP (VicRoads) Possible Road Closures during a flooding event

Merri-bek City Council Roads flooded in a 1% AEP (100yr ARI) event

GOWANBRAE

- Adelaide Boulevard

Table C1.5 – Merri-bek 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
Jacana	Moonee Ponds Creek	65 ha	2,850 ML	First: 66.6m AHD Second: 68.0 AHD	68.0m AHD	11.6m (69.6m AHD)	Extreme	40	6 D12

Table C1.6 – Melbourne Water Retarding Basins within the Moonee Ponds Creek catchment in the City of Merri-bek

A number of reserves and parklands along Moonee Ponds Creek may hold a large amount of stormwater during an event. These include:

Reserve / Park	On Drain / Waterway	Location	Melway Reference
Oak Park Sports Centre	Chapman Avenue Main Drain	Pascoe Vale Road, Oak Park	16H7

Table C1.7 – Parks and Reserves along Moonee Ponds Creek in the City of Merri-bek that will likely flood during a 1% AEP event

Sewerage infrastructure

Sewerage Infrastructure of note during a severe flood event located along Moonee Ponds Creek is contained within the following table.

Sewer Emergency Relief Points

There are Sewer Emergency Relief Points along Moonee Ponds Creek that will likely affect floodwater conditions should they be activated. Contact the Infrastructure Operator EMLO/Duty Officer for information on any recent or planned releases at a Sewer Emergency Relief Point as part of a Dynamic Risk Assessment (DRA) if work is to be conducted at or downstream of the outlet.

On Drain / Waterway	Bank / Side of Waterway	Operator	Location	Melway Reference
Acacia Street Drain	-	Yarra Valley Water	Nelson Street, Glenroy	16 H2
Local Drainage	-	Yarra Valley Water	Albion Street at Peacock St, Brunswick West	29 B5
Melville Main Drain	-	Yarra Valley Water	Cnr Gaffney Street and Derby Street, Pascoe Vale	17 D10
Melville Main Drain	-	Yarra Valley Water	Cnr Sussex Street and Ohea Street, Pascoe Vale South	17 D11
Melville Main Drain	-	Yarra Valley Water	Cramer Street, Coburg	17 E11
Melville Main Drain	-	Yarra Valley Water	Linsey Street, Coburg	17 E12
Melville Main Drain	-	Yarra Valley Water	Haig Avenue, Coburg	29 F4
Melville Main Drain	-	Yarra Valley Water	Lane between Cornwall Street and Shamrock Street, Brunswick West	29 E4
Melville Main Drain	-	Yarra Valley Water	Cnr Hope Street and Percy Street, Brunswick	29 G6
Melville Main Drain	-	Yarra Valley Water	Newman Street at Stranks Avenue, Brunswick West	29 D5
Melville Main Drain	-	Yarra Valley Water	Wales Street, Brunswick West	29 C4
Moonee Ponds Creek	East (Merri-bek)	City West Water	Pascoe Vale Road, Pascoe Vale	16 J9
Moonee Ponds Creek	East (Merri-bek)	Yarra Valley Water	Parkside Boulevard, Pascoe Vale South	28 K3
Moonee Ponds Creek	West (Moonee Valley)	Melbourne Water	Cross Keys Reserve, Woodland Street, Strathmore	29 A1
Moonee Ponds Creek (Bent Street Main Drain)	West (Moonee Valley)	Melbourne Water	Fanny Street, Moonee Ponds	29 A6
South Street Drain	-	Yarra Valley Water	Cnr South Street and Fairmont Street, Hadfield	17 E5
West Street Drain	-	Yarra Valley Water	Cnr West Street and Caldwell Street, Hadfield	17 B4

Table C1.8 – Sewer Emergency Relief Points in the Moonee Ponds Creek Catchment in the City of Merri-bek

Flood impacts and operational considerations (intelligence cards)

The tables on the following pages provide a breakdown of the possible consequences of flooding along Moonee Ponds Creek at various creek heights within the City of Merri-bek. 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:

- Moonee Ponds Creek at Broadmeadows
- Moonee Ponds Creek at Flemington

FLOOD INTELLIGENCE CARD – BROADMEADOWS GAUGE, MOONEE PONDS CREEK

Version 4 – March 2024



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:	Jacana Retarding Basin near Embankment, Glenroy
CURRENT LEVEL:	https://www.melbournwater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229665A
STREAM:	Moonee Ponds Creek
GAUGE NUMBER:	229665A
GAUGE ZERO:	54.58m AHD
GAUGE TYPE:	Stream Level & Rain

MINOR:	Not Established
MODERATE:	Not Established
MAJOR:	Not Established
EMBANKMENT HEIGHT:	15.04m
MELWAY REFERENCE:	6 D12
HIGHEST RECORDED FLOOD:	12.57m (3 rd February 2005)

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
12.0m		Glory hole (intake structure) spillway level reached. Flows expected to increase downstream of the retarding basin.	
12.52m		Secondary spillway (outlet structure) level reached. (Spillway level lowered 0.9m from 13.42m in May 2016)	Flows will continue to increase downstream of the retarding basin.
12.57m	February 2005 Flood Level Peak		
15.62m		Top of Embankment reached. (Embankment was raised 0.5m from 15.12m in August 2016)	
15.9m	1% AEP (100yr ARI) Flood Level	- Note: It is not known at what level infrastructure contained below starts being flooded Properties at Flood Risk 7 Properties in Total - Units 3-5/2 Sylvester Street, Oak Park - Units 2-4/1A & 1/2A John Street, Oak Park Community Infrastructure Likely Flooded - Moonee Ponds Creek Bicycle Trail flooded at various locations - The Pedestrian Bridge over Moonee Ponds Creek along Adelaide Boulevard near Wonga Place may be flooded - Oak Park Football Club, John Pascoe Fawkner Reserve, Oak Park	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters.

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		Essential Infrastructure Likely Impacted - Bus Route 490 call on-demand service through Gowanbrae if Adelaide Boulevard flooded - Sewer Emergency Relief Points located at Pascoe Vale Road, Pascoe Vale; Parkside Boulevard, Pascoe Vale South; Cross Keys Reserve at Woodland Street, Strathmore; and Fanny Street, Moonee Ponds. Water Over Road - Adelaide Boulevard, Gowanbrae	VICSES to respond on a request by request basis. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements.

Table C1.9 – Breakdown of likely consequences at various Jacana Retarding Basin gauge level heights along Moonee Ponds Creek in Merri-bek with operational considerations

FLOOD INTELLIGENCE CARD – FLEMINGTON GAUGE, MOONEE PONDS CREEK

Version 4 – March 2024



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:	West side of the channel along the Moonee Ponds Creek Trail near Delhi Ct, Travancore
CURRENT LEVEL:	https://www.melbournewater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229643A
STREAM:	Moonee Ponds Creek
GAUGE NUMBER:	229643A
GAUGE ZERO:	2.37m AHD
GAUGE TYPE:	Stream Level & Rain

MINOR:	Not Established
MODERATE:	Not Established
MAJOR:	Not Established
LEEVE HEIGHT:	3.45m (in City of Melbourne)
MELWAY REFERENCE:	29 B12
HIGHEST RECORDED FLOOD:	3.13m (1 st June 2013)

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
2.94m	1% AEP (100yr ARI) Flood Level	Nil expected in City of Merri-bek	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters VICSES to respond on a request by request basis. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements.
3.13m	1 st June 2013 Flood Level Peak		
3.45m		Approximate Height of Levee Banks downstream of Gauging Station (in City of Melbourne)	Potential for flooding of properties within City of Melbourne

Table C1.10 – Breakdown of likely consequences at various Flemington gauge level heights along Moonee Ponds Creek in Merri-bek with operational considerations

Appendix C2 – Merri Creek and Edgars Creek flood emergency plan

Overview of flooding consequences

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Summary of Consequences in a 1% AEP (100yr ARI) flood along Merri Creek

Property					
Properties	81				
Residential	75				
Commercial	0				
Industrial	1				
Public Land	5				
Rural	0				
Community Infrastructure					
Places of Worship	1	Russian Orthodox Church			
Essential Infrastructure					
Sewerage Facilities	4	Emergency Relief Points			
Levees	1	Alister Street, Fitzroy North			
Drainage Facilities	1	Merri Creek Retarding Basin			
Tourism / Recreation					
Recreation Facilities	5	Coburg Lake Reserve; Jones Park; Merri Creek Trail; Moomba Park; & Sumner Park			
Government Boundaries					
Local Gov't Areas	1	Merri-bek	CMA	1	Port Phillip & Westernport
Adjacent LGAs	4	Hume; Whittlesea; Darebin; & Yarra	CFA District	0	
SES Unit Area	1	Fawkner	FRV District	1	Northern

Table C2.1 – Consequence Summary of 1% AEP flood along Merri Creek within the City of Merri-bek

Merri Creek and the adjoining suburbs of Fawkner, Coburg North, Coburg, Brunswick East & Fitzroy North are located between 5-14km north of Melbourne in an established residential area. Merri Creek is the prominent watercourse in the area, flowing from the north along the borders of Hume and Whittlesea Councils. A number of tributaries join Merri Creek in the City of Merri-bek including Merlynston Creek and Edgars Creek. Within the bounds of the City of Merri-bek, Merri Creek retains the characteristic of a natural open waterway, though has undergone modifications over time to realign flows or stabilise banks.

High Intensity, short duration rainfall events can cause flash flooding in and around these tributaries and stormwater drains, while prolonged rainfall may see Merri Creek flood. See mapping in [Appendix F](#) for more insight into flooding in the area.

Gauges and warnings

Warnings are available for flooding expected along the Merri Creek at Coburg and Northcote. Flood class levels for these gauges are detailed in table C2.2 and are used in the issuing of a flood warning for Merri Creek. Other level / flood gauges within the Merri Creek catchment are contained within table C2.3.

Flood Warning Gauge	River / Creek Flood Class Level		
	Minor	Moderate	Major
Merri Creek at Bell Street, Coburg	2.9m	3.4m	4.8m
Merri Creek at St Georges Road, Northcote	3.2m	3.8m	5.0m

Table C2.2 – Gauges with established Flood Class Levels for the City of Merri-bek

At these sites on the Merri Creek, the 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 Merri-bek monitors these warnings in times of high rainfall, there are no specific guidelines to advise how these situations should be responded to.

For flood peak travel times in the City of Merri-bek, see [Appendix B](#).

Gauge	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Merri Creek at Summerhill Road, Craigieburn North	229627A	West side of the creek 200m south of Summerhill Rd, Craigieburn	✓	✓	387 H3
Merri Creek at Craigieburn Road, Craigieburn	229257A	East side of the creek at Craigieburn Rd bridge, Wollert	✓		387 E10
Merri Creek at Cooper Street, Somerton	229603A	West side of the creek, 200m north of Cooper Street, Somerton	✓	✓	180 J9
Merri Creek at Bell Street, Coburg	229645A	West side of the Creek at the Bell St Bridge, Coburg	✓	✓	30 A1
Merri Creek at St Georges Road, Northcote	229149A	East side of the creek in Green Reserve at end of Union St, Northcote	✓	✓	30 D10
Merlynston Creek at Fawkner Cemetery	229402A	Fawkner Cemetery at Sussex St, Hadfield	✓	✓	17 E5
Edgars Creek at Edwardes Lake, Reservoir	229610A	Edwardes Lake at Edwardes Street, Reservoir	✓		18D5

Table C2.3 – Gauges within the Merri Creek 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>. The Bureau of Meteorology's website also links a number of these gauges at: http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDV60201.html. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/vic/warnings/index.shtml?ref=hdr> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

Map of flood risk along Merri Creek and Edgars Creek in Merri-bek

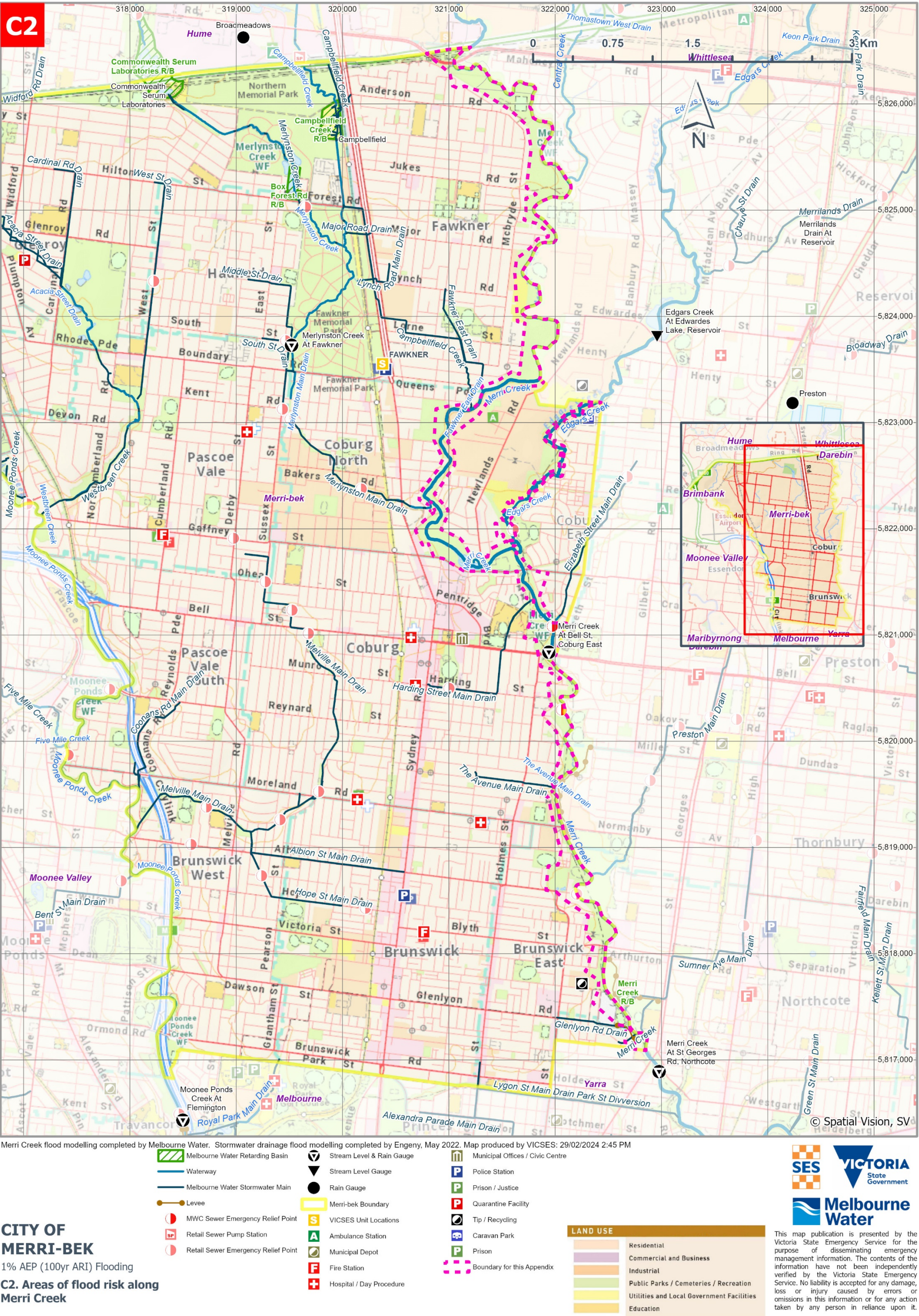


Figure C2 – Areas of flood risk along Merri Creek and Edgars Creek in the City of Merri-bek

Properties at risk

This Property Flood Risk Table is presented by VICSES for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by VICSES. 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 listed in the table below are at risk from flooding along Merri and Edgars Creeks within the City of Merri-bek. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Merri Creek (Melbourne Water) and the Edgars Creek (AECOM, July 2014) flood mapping and risk assessment programs.

Properties at risk from Flooding along Merri and Edgars Creeks in Merri-bek during a 1% AEP event				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
1/2	Albion Street	Brunswick East	Merri Creek	Riverine
2/2	Albion Street	Brunswick East	Merri Creek	Riverine
3/2	Albion Street	Brunswick East	Merri Creek	Riverine
4/2	Albion Street	Brunswick East	Merri Creek	Riverine
3-7	Albion Street	Brunswick East	Merri Creek	Riverine
4	Albion Street	Brunswick East	Merri Creek	Riverine
6	Albion Street	Brunswick East	Merri Creek	Riverine
8	Albion Street	Brunswick East	Merri Creek	Riverine
8A	Albion Street	Brunswick East	Merri Creek	Riverine
9-23	Albion Street	Brunswick East	Merri Creek	Riverine
20	Alec Crescent	Fawkner	Merri Creek	Riverine
22	Alec Crescent	Fawkner	Merri Creek	Riverine
24	Alec Crescent	Fawkner	Merri Creek	Riverine
26	Alec Crescent	Fawkner	Merri Creek	Riverine
28	Alec Crescent	Fawkner	Merri Creek	Riverine
3	Alister Street	Brunswick East	Merri Creek	Riverine
14	Cole Crescent	Coburg	Merri Creek	Riverine
16	Cole Crescent	Coburg	Merri Creek	Riverine
18	Cole Crescent	Coburg	Merri Creek	Riverine
20	Cole Crescent	Coburg	Merri Creek	Riverine
22	Cole Crescent	Coburg	Merri Creek	Riverine
24	Cole Crescent	Coburg	Merri Creek	Riverine
26	Cole Crescent	Coburg	Merri Creek	Riverine
30	Cole Crescent	Coburg	Merri Creek	Riverine
32	Cole Crescent	Coburg	Merri Creek	Riverine
1/34	Cole Crescent	Coburg	Merri Creek	Riverine
2/34	Cole Crescent	Coburg	Merri Creek	Riverine
3/34	Cole Crescent	Coburg	Merri Creek	Riverine
1A/34	Cole Crescent	Coburg	Merri Creek	Riverine
2A/34	Cole Crescent	Coburg	Merri Creek	Riverine
36	Cole Crescent	Coburg	Merri Creek	Riverine
38	Cole Crescent	Coburg	Merri Creek	Riverine
40	Cole Crescent	Coburg	Merri Creek	Riverine

Properties at risk from Flooding along Merri and Edgars Creeks in Merri-bek during a 1% AEP event

Residential		Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse		Flood Risk Type
4	Danny Street	Coburg	Merri Creek		Riverine
6	Danny Street	Coburg	Merri Creek		Riverine
8	Danny Street	Coburg	Merri Creek		Riverine
10	Danny Street	Coburg	Merri Creek		Riverine
16	Edna Grove	Coburg	Merri Creek		Riverine
16A	Edna Grove	Coburg	Merri Creek		Riverine
18	Edna Grove	Coburg	Merri Creek		Riverine
20	Edna Grove	Coburg	Merri Creek		Riverine
22	Edna Grove	Coburg	Merri Creek		Riverine
24	Edna Grove	Coburg	Merri Creek		Riverine
26	Edna Grove	Coburg	Merri Creek		Riverine
28	Edna Grove	Coburg	Merri Creek		Riverine
30	Edna Grove	Coburg	Merri Creek		Riverine
32	Edna Grove	Coburg	Merri Creek		Riverine
2A	Gaffney Street	Coburg North	Merri Creek		Riverine
11/129	Harding Street	Coburg	Merri Creek		Riverine
12/129	Harding Street	Coburg	Merri Creek		Riverine
13/129	Harding Street	Coburg	Merri Creek		Riverine
14/129	Harding Street	Coburg	Merri Creek		Riverine
17/129	Harding Street	Coburg	Merri Creek		Riverine
18/129	Harding Street	Coburg	Merri Creek		Riverine
19/129	Harding Street	Coburg	Merri Creek		Riverine
22	Harrison Street	Brunswick East	Merri Creek		Riverine
38	Harrison Street	Brunswick East	Merri Creek		Riverine
42-44	Harrison Street	Brunswick East	Merri Creek		Riverine
50-72	Harrison Street	Brunswick East	Merri Creek		Riverine
6-32	Kirkdale Street	Brunswick East	Merri Creek		Riverine
55	Livingston Street	Coburg North	Edgars Creek		Riverine
60	Livingston Street	Coburg North	Edgars Creek		Riverine
62	Livingston Street	Coburg North	Edgars Creek		Riverine
64	Livingston Street	Coburg North	Edgars Creek		Riverine
13	Merribell Avenue	Coburg	Merri Creek		Riverine
15	Merribell Avenue	Coburg	Merri Creek		Riverine
17	Merribell Avenue	Coburg	Merri Creek		Riverine
19	Merribell Avenue	Coburg	Merri Creek		Riverine
21	Merribell Avenue	Coburg	Merri Creek		Riverine
23	Merribell Avenue	Coburg	Merri Creek		Riverine
25	Merribell Avenue	Coburg	Merri Creek		Riverine
27	Merribell Avenue	Coburg	Merri Creek		Riverine
29	Merribell Avenue	Coburg	Merri Creek		Riverine
31	Merribell Avenue	Coburg	Merri Creek		Riverine
33	Merribell Avenue	Coburg	Merri Creek		Riverine

Properties at risk from Flooding along Merri and Edgars Creeks in Merri-bek during a 1% AEP event				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
35	Merribell Avenue	Coburg	Merri Creek	Riverine
26A	Somerlayton Crescent	Fawkner	Merri Creek	Riverine
2/54	Somerlayton Crescent	Fawkner	Merri Creek	Riverine
52	Somerlayton Crescent	Fawkner	Merri Creek	Riverine
50	Somerlayton Crescent	Fawkner	Merri Creek	Riverine
2/197	The Avenue	Coburg	Merri Creek	Riverine
Total				
81				

Table C2.4 – Properties at risk of flooding along the Merri and Edgars Creeks in the City of Merri-bek

Isolation

No major isolation risks exist for areas around Fawkner, Coburg North, Coburg & Brunswick East during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

Essential infrastructure

There are several sewer emergency relief points adjacent to Merri Creek that may be discharged during intense rainfall events.

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 Merri-bek is available via the website at: https://www.ptv.vic.gov.au/assets/default-site/more/maps/metropolitan-local-area-maps/37_Merri-bek_LAM_July-2022-NN-v2.pdf

Apart from the roads outlined below, all other essential infrastructure and services areas along Merri Creek in Fawkner, Coburg North, Coburg & Brunswick East are expected to remain unaffected by flooding during a 1% AEP (100yr ARI) event. This includes the SP AusNet Brunswick Terminal Station on King Street, Brunswick East.

Road closures

The following roads are subject to closure during flooding along Merri Creek in Fawkner, Coburg North, Coburg & Brunswick East. Check the VicTraffic website for more details: <https://traffic.vicroads.vic.gov.au/>

DTP (VicRoads) Roads flooded in a 1% AEP (100yr ARI) event
Nil expected in City of Merri-bek

Table C2.5 – DTP (VicRoads) Possible Road Closures during a flooding event

Merri-bek City Council Roads flooded in a 1% AEP (100yr ARI) event		
BRUNSWICK EAST	COBURG	FAWKNER
Albion Street	Edna Grove	Alec Crescent
Harrison Street	Grant Street	
Weigall Street		

Table C2.6 – Merri-bek 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
Merri Creek	Merri Creek	1.3 ha	~ 50 ML	N/A	Unknown	2.0m (32.9m AHD)	Very Low	0	30 C8

Table C2.7 – Melbourne Water Retarding Basins within the Merri Creek catchment in the City of Merri-bek

A number of reserves and parklands along Merri Creek may hold a large amount of stormwater during an event. These include:

Reserve / Park	On Drain / Waterway	Location	Melway Reference
Moomba Park	Merri Creek	Somerlayton Crescent, Fawkner	7K11
Tate Reserve	Merri Creek	Cole Crescent, Coburg	30A2
Egan Reserve	Merri Creek	Rennie Street, Coburg	30B3
Sumner Park	Merri Creek	Alister Street, Brunswick East	30C9

Table C2.8 – Parks and Reserves along the Merri Creek in the City of Merri-bek

Levees

Levee	Reach	Side	Levee Height	Levee Length	Expected Level of Protection	ANCOLD Hazard Rating	Consequences of Failure	Melway Reference
Merri Creek, Fitzroy North	Alister Street	West	1.8m (31.50m AHD)	0.3km	11% AEP Flood (freeboard unknown). 1% AEP Flood Level is: 32.10m AHD. Max Recorded Flood: 30.48m AHD	Significant	11 residential properties at risk of flooding along Alister Street	30 C9

Table C2.9 – Melbourne Water Levees in the Merri Creek Catchment in the City of Merri-bek

Sewerage infrastructure

Sewerage Infrastructure of note during a severe flood event located along Merri Creek is contained within the following table.

Sewer Emergency Relief Points

There are Sewer Emergency Relief Points along Merri Creek and Edgars Creek that will likely affect floodwater conditions should they be activated. Contact the Infrastructure Operator EMLO/Duty Officer for information on any recent or planned releases at a Sewer Emergency Relief Point as part of a Dynamic Risk Assessment (DRA) if work is to be conducted at or downstream of the outlet.

On Drain / Waterway	Bank / Side of Waterway	Operator	Location	Melway Reference
Campbellfield Creek	West (Hume)	Yarra Valley Water	The Gateway, Broadmeadows	7 F11
Edgars Creek	East	Yarra Valley Water	Jackson Reserve on Outlook Road, Coburg North	17 K10
Harding Street Main Drain	-	Yarra Valley Water	Harding Street at Park Street, Coburg	29 J1
Merlynston Creek	-	Yarra Valley Water	Martin Reserve, Box Forest Road, Hadfield	17 F2
Merlynston Main Drain	-	Yarra Valley Water	Cnr Sussex Street and Kent Road, Pascoe Vale	17 E7
Merlynston Main Drain	-	Yarra Valley Water	Bridges Avenue, Coburg North	17 E7
Merlynston Main Drain	-	Yarra Valley Water	Allenby Street, Coburg North	17 G9
Merri Creek	West (Merri-bek)	Melbourne Water	De Chene Reserve on Armstead Avenue, Coburg	18 A12
Merri Creek	West (Merri-bek)	Melbourne Water	Tate Reserve on Grant Street, Coburg	30 B2
Merri Creek	West (Merri-bek)	Yarra Valley Water	Albion Street, Brunswick East	30 B6
South Street Drain	-	Yarra Valley Water	Cnr South Street and Fairmont Street, Hadfield	17 E5

Table C2.10 – Sewer Emergency Relief Points in the Merri Creek Catchment in the City of Merri-bek

Flood impacts and operational considerations (intelligence cards)

The tables on the following pages provide a breakdown of the possible consequences of flooding along the Merri and Edgars Creeks at various creek heights within the City of Merri-bek. 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:

- Merri Creek at Somerton
- Merri Creek at Coburg
- Merri Creek at Northcote
- Edgars Creek at Reservoir

FLOOD INTELLIGENCE CARD – SOMERTON GAUGE, MERRI CREEK

Version 4 – March 2024



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:	West side of the creek, 200m north of Cooper Street, Somerton
CURRENT LEVEL:	https://www.melbournewater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229603A
STREAM:	Merri Creek
GAUGE NUMBER:	229603A
GAUGE ZERO:	125.048m AHD
GAUGE TYPE:	Stream Level & Rain

MINOR:	3.4m (original flood class level) (No flood warning for site due to flood warning site now at Coburg)
MODERATE:	3.7m (original flood class level) (No flood warning for site due to flood warning site now at Coburg)
MAJOR:	4.4m (original flood class level) (No flood warning for site due to flood warning site now at Coburg)
LEVEE HEIGHT:	N/A
MELWAY REFERENCE:	180 J9
HIGHEST RECORDED FLOOD:	4.97m (15 th May 1974)

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
3.3m		Bank Full at Gauging Location	
3.4m	Original Minor Flood Level	Note: This is the original minor flood class level for this site, no automatic flood warning is issued due to flood warnings now being covered by the Coburg site	
3.7m	Original Moderate Flood Level	Note: This is the original minor flood class level for this site, no automatic flood warning is issued due to flood warnings now being covered by the Coburg site	
4.4m	Original Major Flood Level	Note: This is the original minor flood class level for this site, no automatic flood warning is issued due to flood warnings now being covered by the Coburg site	
4.97m	15 th May 1974 Flood Level Peak		
5.2m	1% AEP (100yr ARI) Flood Level	- Note: It is not known at what level property and infrastructure contained below starts being flooded Properties at Flood Risk 10 Properties in Total 20, 22, 24, 26 & 28 Alec Crescent, Fawkner	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		2A Gaffney Street, Coburg North 26A, 2/54, 52 & 50 Somerlayton Crescent, Fawkner Community Infrastructure Likely Flooded - Coburg Lake Reserve on Gaffney Street (Murray Road), Coburg North - Merri Creek Trail flooded at various locations - Moomba Park, Somerlayton Crescent, Fawkner - Floodwaters may become level with Pedestrian Bridges over Merri Creek at Moomba Park, Fawkner; at B.T. Connor Reserve, Reservoir; & at the end of Lynch Road, Fawkner Water Over Road - Alec Crescent, Fawkner	MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters VICSES to respond on a request by request basis. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements.
5.3m		Essential Infrastructure Likely Impacted Approximate height of Levee Banks at Alister Street, Fitzroy North	11 residential properties at risk of flooding along Alister Street if levee breached.

Table C1.11 – Breakdown of likely consequences at various Somerton gauge level heights along Merri Creek within the City of Merri-bek with operational considerations

FLOOD INTELLIGENCE CARD – COBURG GAUGE, MERRI CREEK

Version 4 – March 2024



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:	West side of the Creek at the Bell St Bridge, Coburg
CURRENT LEVEL:	https://www.melbournewater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229645A
STREAM:	Merri Creek
GAUGE NUMBER:	229645A
GAUGE ZERO:	33.73m AHD
GAUGE TYPE:	Stream Level & Rain

MINOR:	2.9m
MODERATE:	3.4m
MAJOR:	4.8m
LEVEE HEIGHT:	Unknown
MELWAY REFERENCE:	30 A1
HIGHEST RECORDED FLOOD:	4.85m (1 st December 1934)

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
2.9m	MINOR FLOOD LEVEL	Bank Full at The Grove, Coburg	
3.1m	10% AEP (10yr ARI) Flood Level	Bank Full at Merri-bek Road, Coburg	
3.4m	MODERATE FLOOD LEVEL		VICSES may provide warnings using EM-COP and VicEmergency as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding.
4.28m	3 rd February 2005 Flood Level peak		
4.8m	MAJOR FLOOD LEVEL	Properties at Flood Risk 1 Properties in Total 30 Edna Grove, Coburg	VICSES to respond on a request by request basis.
5.51m	1% AEP (100yr ARI) Flood Level (Major)	Note: It is not known at what level property and infrastructure contained below starts being flooded Properties at Flood Risk 50 New at Level; 51 Properties in Total	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		14, 16, 18, 20, 22, 24, 26, 30, 32, Units 1-3/34, 1A/34, 2A/34, 36, 38 & 40 Cole Crescent, Coburg 4, 6, 8 & 10 Danny Street, Coburg 16, 16A, 18, 20, 22, 24, 26, 28 & 32 Edna Grove, Coburg - Units 11-14/129 & Units 17-19/129 Harding Street, Coburg 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33 & 35 Merribell Avenue, Coburg 2/197 The Avenue, Coburg Community Infrastructure Likely Flooded - Merri Creek Trail flooded at various locations - Pedestrian bridge over Merri Creek at De Chene Reserve (works recently completed so bridge now above 1% level) - Pedestrian bridge over Merri Creek at end of Harding Street, Coburg Essential Infrastructure Likely Impacted - Sewer Emergency Relief Points located at Jackson Reserve on Oulook Road, Coburg North; De Chene Reserve on Armstead Avenue, Coburg; and Tate Reserve on Grant Street, Coburg Water Over Road - Edna Grove, Coburg - Grant Street, Coburg	RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters VICSES to respond on a request by request basis. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements. Merri Edgars wetlands at confluence of Edgars and Merri Creeks likely to require additional attention in relief activities- sewer relief points upstream. Potential place of gathering of community members

Table C1.12 – Breakdown of likely consequences at various Coburg gauge level heights along Merri Creek within the City of Merri-bek with operational considerations

FLOOD INTELLIGENCE CARD – NORTHCOTE GAUGE, MERRI CREEK

Version 4 – March 2024



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:	East side of the creek in Green Reserve at end of Union St, Northcote
CURRENT LEVEL:	https://www.melbournewater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229149A
STREAM:	Merri Creek
GAUGE NUMBER:	229149A
GAUGE ZERO:	23.97m AHD
GAUGE TYPE:	Stream Level & Rain

MINOR:	3.2m
MODERATE:	3.8m
MAJOR:	5.0m
LEVEE HEIGHT:	6.8m (requires verification)
MELWAY REFERENCE:	30 D10
HIGHEST RECORDED FLOOD:	4.81m (8 th April 1977)

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
3.2m	MINOR FLOOD LEVEL	Bank Full at Gauging Location	
3.8m	MODERATE FLOOD LEVEL		VICSES to respond on a request by request basis.
4.64m	3 rd December 2003 Flood Level peak		
4.81m	8 th April 1977 Flood Level peak		
5.0m	MAJOR FLOOD LEVEL		
6.13m	1% AEP (100yr ARI) Flood Level (Major)	- Note: It is not known at what level property and infrastructure contained below starts being flooded Properties at Flood Risk 16 Properties in Total - Units 1-4/2, 3-7, 4, 6, 8, 8A & 9-23 Albion Street, Brunswick East 3 Alister Street, Brunswick East 22, 38, 42-44 & 50-72 Harrison Street, Brunswick East	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		6-32 Kirkdale Street, Brunswick East Community Infrastructure Flooded - Jones Park on Albion Street, Brunswick East - Merri Creek Trail flooded at various locations - Russian Orthodox Church on Albion Street, Brunswick East - Sumner Park on Alister Street, Brunswick East Essential Infrastructure Likely Impacted - Sewer Emergency Relief Point located on Albion Street, Brunswick East Water Over Road - Harrison Street, Brunswick East - Albion Street, Brunswick East - Weigall Street, Brunswick East	MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters VICSES to respond on a request by request basis. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements.
6.8m		Essential Infrastructure Likely Impacted Approximate height of Levee Bank at Alister Street, Fitzroy North may overtop.	11 residential properties along Alister St at risk of flooding if levee breached.

Table C1.13 – Breakdown of likely consequences at various Northcote gauge level heights along Merri Creek within the City of Merri-bek with operational considerations

FLOOD INTELLIGENCE CARD – RESERVOIR GAUGE, EDGARS CREEK

Version 4 – March 2024



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:	Edwardes Lake at Edwardes Street, Reservoir
CURRENT LEVEL:	https://www.melbournwater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229610A
STREAM:	Edgars Creek
GAUGE NUMBER:	229610A
GAUGE ZERO:	69.16m AHD
GAUGE TYPE:	Stream Level

MINOR:	Not Established
MODERATE:	Not Established
MAJOR:	Not Established
LEEVE HEIGHT:	1.38m
MELWAY REFERENCE:	18 D5
HIGHEST RECORDED FLOOD:	1.30m (1 st June 2013)

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
1.19m	3 rd February 2005 Flood Level peak		
1.38m		Top of Reservoir Wall	
1.70m	1% AEP (100yr ARI) Flood Level	- Note: It is not known at what level property and infrastructure contained below starts being flooded Properties at Flood Risk 4 Properties in Total 55, 60, 62 & 64 Livingstone Street, Coburg North Community Infrastructure Likely Flooded - Flood water level with pedestrian bridge over Edgars Creek at Ronald Street, Coburg North. New bridge in works, structure and approaches will be above 1% Essential Infrastructure Likely Impacted - Sewer Emergency Relief Point located at Jackson Reserve on Outlook Road, Coburg North	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters VICSES to respond on a request by request basis. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements

Table C1.14 – Breakdown of likely consequences at various Reservoir gauge level heights along Edgars Creek within the City of Merri-bek with operational considerations

Appendix C3 – Northern Merri-bek flash flood emergency plan

Overview of 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 in Northern Merri-bek

Property					
Properties	1035				
Residential	770				
Commercial	290				
Industrial	6				
Public Land	19				
Rural	0				
Community Infrastructure					
Care Facilities	1	Regis Fawknor Aged Care			
Schools / Colleges	1	St Thomas Mores School			
Child Care / Kindergartens	3	Baby Beckett Children's Centre; Pearl Street Child Care; and Oak Park Children's Centre			
Community Venues	1	Pascoe Vale Elderly Citizens Centre			
Cemeteries	2	Northern Memorial Park; & Fawknor Cemetery			
Essential Infrastructure					
Major Roads	6	Boundary Road, Hadfield; Box Forest Road, Hadfield; Pascoe Vale Road, Oak Park; Gaffney Street, Pascoe Vale; Pascoe Street, Pascoe Vale; and Rhodes Parade, Pascoe Vale			
Major Rail	1	Craigieburn Railway Line at Pascoe Vale Station and Gaffney Street crossing			
Bus Routes	8	490, 513, 526, 527, 530, 534, 542 and 561			
Drainage Facilities	3	Retarding Basins			
Tourism / Recreation					
Reserves and Parks	5	Coburg North Linier Reserve, Coburg North; F Cox Reserve, Coburg North; H.M. Dowd Reserve, Pascoe Vale; James Reserve, Pascoe Vale; and Sanger Reserve, Coburg North			
Recreation Facilities	1	Westbreen Creek Bicycle / Walking Trail			
Government Boundaries					
Local Gov't Areas	1	Merri-bek	CMA	1	Port Phillip & Westernport
Adjacent LGAs	1	Hume, Moonee Valley and Darebin	CFA District	0	
SES Unit Area	1	Fawknor	FRV District	1	Northern

Table C3.1 – Consequence Summary of 1% AEP flood in the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawcner, Pascoe Vale & Coburg North in Merri-bek

The northern Merri-bek area including the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawcner, Pascoe Vale & Coburg North are located approximately 12km north of Melbourne in a mixed residential and industrial area.

Not including either Moonee Ponds Creek or Merri Creek which are covered in [Appendix C1](#) and [C2](#) respectively, Merlynston Creek is the predominant creek in the area. Formed with a combination of both concrete channel and

modified and natural river bed, the Merlynston and Campbellfield Creeks are part of a small catchment that feeds into Merri Creek to the south-east via Merlynston Main Drain.

Westbreen Creek is a part of a small catchment that feeds into Moonee Ponds Creek in Pascoe Vale.

A seasonal waterway, Westbreen Creek takes the form of natural depressions with some piped sections. High Intensity, short duration rainfall events are likely to cause flash flooding in and around Westbreen Creek and the three main stormwater drains that connect to it: the Acacia Street, Cardinal Road and West Street Drains, while prolonged rainfall may see Moonee Ponds Creek flood.

Just before Westbreen Creek joins Moonee Ponds Creek, the Craigieburn Railway Line crosses the creek near the bottom of Gaffney Street, Pascoe Vale. At this location in a 1% AEP event, the railway may become inundated. The remaining flood risks in Northern Merri-bek are the result of overland flows from likely capacity exceeded or blocked stormwater drains. See mapping in [Appendix F](#) for more insight into flooding in the area.

Gauges and warnings

Neither the Bureau of Meteorology nor Melbourne Water currently provides flood forecasts for the Merlynston, Campbellfield or Westbreen Creeks or the surrounding area. All flood response actions must therefore be driven by rainfall and / or river level observations. A telemetered water level / flood gauges is located at Fawkner Cemetery, Hadfield.

Gauge	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Merlynston Creek at Fawkner Cemetery	229402A	Fawkner Cemetery at Sussex St, Hadfield	✓	✓	17 E5

Table C3.2 – Gauges in Northern Merri-bek

This gauge 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>. The Bureau of Meteorology's website also links a number of these gauges at: http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDV60201.html. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/vic/warnings/index.shtml?ref=hdr> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

Map of flash flood risk around northern Merri-bek (Gowanbrae, Glenroy, Oak Park, Hadfield, Fawkner, Pascoe Vale and Coburg North)

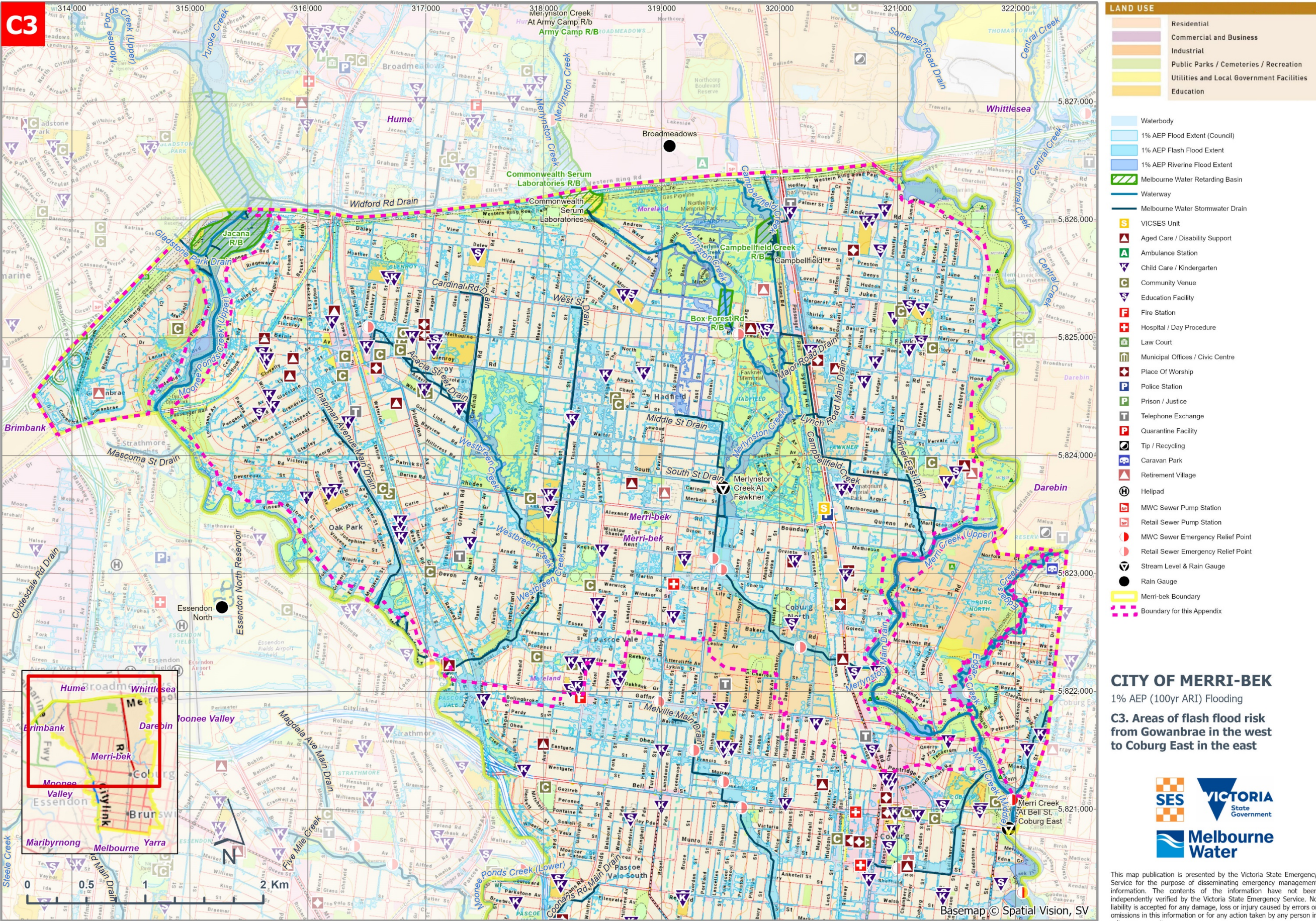


Figure C3 – Areas of flood risk around the Merlynston & Campbellfield Creeks in the City of Merri-bek

Properties at risk

Properties listed in the table below are at risk from flash flooding (over 30cm depth in yard close to the primary building location) in the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawkner, Pascoe Vale & Coburg North. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Merri-bek Flood Mapping Project (Melbourne Water and Engeny, November 2022). 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 VICSES for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by VICSES. 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 Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	3/20 Acacia Street	Glenroy	Acacia St Drain	UNIT
		✓	4/24 Acacia Street	Glenroy	Acacia St Drain	UNIT
		✓	5/26 Acacia Street	Glenroy	Acacia St Drain	UNIT
		✓	9 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	11 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	13 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	15 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	16 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	17 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	18 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	19 Adler Grove	Coburg North	Merlynston Main Drain	
		✓	20 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	21 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	22 Adler Grove	Coburg North	Merlynston Main Drain	
	✓	✓	24 Adler Grove	Coburg North	Merlynston Main Drain	
		✓	4 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	6 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	7 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	8 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	9 Allenby Street	Coburg North	Merlynston Main Drain	
	✓	✓	10-16 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	11 Allenby Street	Coburg North	Merlynston Main Drain	
	✓	✓	13 Allenby Street	Coburg North	Merlynston Main Drain	
	✓	✓	15 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	17 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	18 Allenby Street	Coburg North	Merlynston Main Drain	
		✓	19 Allenby Street	Coburg North	Merlynston Main Drain	
	✓	✓	21 Ann Street	Pascoe Vale	Local Drainage	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
	✓	✓	23 Ann Street	Pascoe Vale	Local Drainage	
		✓	19 Apsley Street	Glenroy	Acacia St Drain	
		✓	27 Argyle Street	Fawkner	Fawkner East Drain	
		✓	29 Argyle Street	Fawkner	Fawkner East Drain	
✓	✓	✓	31 Argyle Street	Fawkner	Fawkner East Drain	
		✓	33 Argyle Street	Fawkner	Fawkner East Drain	
	✓	✓	62 Bakers Road	Coburg North	Merlynston Main Drain	
		✓	99 Bakers Road	Coburg North	Merlynston Main Drain	
	✓	✓	101-105 Bakers Road	Coburg North	Merlynston Main Drain	
	✓	✓	1/107-111 Bakers Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	2/107-111 Bakers Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	3/107-111 Bakers Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	107-111 Bakers Road	Coburg North	Merlynston Main Drain	
	✓	✓	113-115 Bakers Road	Coburg North	Merlynston Main Drain	
		✓	1 Bateman Court	Coburg	Elizabeth St Main Drain	
✓	✓	✓	3 Bateman Court	Coburg	Elizabeth St Main Drain	
✓	✓	✓	5 Bateman Court	Coburg	Elizabeth St Main Drain	
		✓	7 Bateman Court	Coburg	Elizabeth St Main Drain	
		✓	32 Bateman Court	Coburg	Elizabeth St Main Drain	
		✓	36 Bateman Court	Coburg	Elizabeth St Main Drain	
		✓	40 Bateman Court	Coburg	Elizabeth St Main Drain	
		✓	44 Bateman Court	Coburg	Elizabeth St Main Drain	
		✓	48 Bateman Court	Coburg	Elizabeth St Main Drain	
		✓	52 Bateman Court	Coburg	Elizabeth St Main Drain	
	✓	✓	19 Blenheim Street	Glenroy	Acacia St Drain	
✓	✓	✓	4 Borang Street	Coburg North	Fawkner East Drain	
		✓	97 Boundary Road	Coburg North	Merlynston Main Drain	
		✓	1/99 Boundary Road	Coburg North	Merlynston Main Drain	UNIT
		✓	2/99 Boundary Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	3/99 Boundary Road	Coburg North	Merlynston Main Drain	UNIT
		✓	4/99 Boundary Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	5/99 Boundary Road	Coburg North	Merlynston Main Drain	UNIT
		✓	6/99 Boundary Road	Coburg North	Merlynston Main Drain	UNIT
		✓	7/99 Boundary Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	103 Boundary Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	105 Boundary Road	Coburg North	Merlynston Main Drain	
	✓	✓	107 Boundary Road	Coburg North	Merlynston Main Drain	
		✓	109 Boundary Road	Coburg North	Merlynston Main Drain	
		✓	111 Boundary Road	Coburg North	Merlynston Main Drain	
		✓	11 Bouchier Street	Glenroy	West St Drain	
	✓	✓	13 Bouchier Street	Glenroy	West St Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	15 Bouchier Street	Glenroy	West St Drain	
		✓	22 Bouchier Street	Glenroy	West St Drain	
✓	✓	✓	2 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	4 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	6 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	8 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	10 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	12 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	14 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	16 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	1/18 Bridges Avenue	Coburg North	Merlynston Main Drain	UNIT
✓	✓	✓	2/18 Bridges Avenue	Coburg North	Merlynston Main Drain	UNIT
✓	✓	✓	3/18 Bridges Avenue	Pascoe Vale	Merlynston Main Drain	UNIT
✓	✓	✓	18 Bridges Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	20 Bridges Avenue	Coburg North	Merlynston Main Drain	
		✓	57 Cardinal Road	Glenroy	Acacia St Drain	
	✓	✓	1/3 Catherine Street	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	1/7-9 Catherine Street	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	2/7-9 Catherine Street	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	7-9 Catherine Street	Coburg North	Merlynston Main Drain	
		✓	8 Catherine Street	Coburg North	Merlynston Main Drain	
	✓	✓	10 Catherine Street	Coburg North	Merlynston Main Drain	
	✓	✓	10A Catherine Street	Coburg North	Merlynston Main Drain	
	✓	✓	12 Catherine Street	Coburg North	Merlynston Main Drain	
		✓	14 Catherine Street	Coburg North	Merlynston Main Drain	
		✓	16 Catherine Street	Coburg North	Merlynston Main Drain	
	✓	✓	2 Claremont Street	Coburg North	Elizabeth St Main Drain	
		✓	12 Connolly Avenue	Coburg	Elizabeth St Main Drain	
		✓	14 Connolly Avenue	Coburg	Elizabeth St Main Drain	
		✓	16 Connolly Avenue	Coburg	Elizabeth St Main Drain	
✓	✓	✓	18 Connolly Avenue	Coburg	Elizabeth St Main Drain	
	✓	✓	20 Connolly Avenue	Coburg	Elizabeth St Main Drain	
		✓	24 Connolly Avenue	Coburg	Elizabeth St Main Drain	
		✓	26 Connolly Avenue	Coburg	Elizabeth St Main Drain	
	✓	✓	28 Connolly Avenue	Coburg	Elizabeth St Main Drain	
	✓	✓	30 Connolly Avenue	Coburg	Elizabeth St Main Drain	
	✓	✓	32 Connolly Avenue	Coburg	Elizabeth St Main Drain	
✓	✓	✓	34 Connolly Avenue	Coburg	Elizabeth St Main Drain	
✓	✓	✓	36 Connolly Avenue	Coburg	Elizabeth St Main Drain	
	✓	✓	38 Connolly Avenue	Coburg	Elizabeth St Main Drain	
	✓	✓	40 Connolly Avenue	Coburg	Elizabeth St Main Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	13 Convent Court	Coburg North	Merlynston Main Drain	
		✓	15 Convent Court	Coburg North	Merlynston Main Drain	
		✓	3/56 Cosmos Street	Glenroy	West St Drain	UNIT
		✓	1/1 Cromwell Street	Glenroy	Acacia St Drain	UNIT
		✓	5/1 Cromwell Street	Glenroy	Acacia St Drain	UNIT
		✓	9/1 Cromwell Street	Glenroy	Acacia St Drain	UNIT
		✓	10/1 Cromwell Street	Glenroy	Acacia St Drain	UNIT
		✓	5 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	7 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	9 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	10 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	11 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	12 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	13 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	14 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	15 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	16 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	17 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	18 Crowley Court	Pascoe Vale	Westbreen Creek	
✓	✓	✓	19 Crowley Court	Pascoe Vale	Westbreen Creek	
		✓	127 Cumberland Road	Pascoe Vale	Local Drainage	
	✓	✓	1/162-166 Cumberland Road	Pascoe Vale	Local Drainage	UNIT
	✓	✓	2/162-166 Cumberland Road	Pascoe Vale	Local Drainage	UNIT
	✓	✓	3/162-166 Cumberland Road	Pascoe Vale	Local Drainage	UNIT
	✓	✓	4/162-166 Cumberland Road	Pascoe Vale	Local Drainage	UNIT
	✓	✓	5/162-166 Cumberland Road	Pascoe Vale	Local Drainage	UNIT
	✓	✓	6/162-166 Cumberland Road	Pascoe Vale	Local Drainage	UNIT
	✓	✓	7/162-166 Cumberland Road	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	14 Dairy Drive	Coburg North	Local Drainage	
		✓	33 Dawson Street	Coburg North	Merlynston Main Drain	
	✓	✓	35 Dawson Street	Coburg North	Merlynston Main Drain	
	✓	✓	37 Dawson Street	Coburg North	Merlynston Main Drain	
	✓	✓	39 Dawson Street	Coburg North	Merlynston Main Drain	
	✓	✓	41 Dawson Street	Coburg North	Merlynston Main Drain	
		✓	43 Dawson Street	Coburg North	Merlynston Main Drain	
		✓	45 Dawson Street	Coburg North	Merlynston Main Drain	
		✓	60 Dawson Street	Coburg North	Merlynston Main Drain	
	✓	✓	62 Dawson Street	Coburg North	Merlynston Main Drain	
	✓	✓	64 Dawson Street	Coburg North	Merlynston Main Drain	
	✓	✓	72 Dawson Street	Coburg North	Merlynston Main Drain	
		✓	74 Dawson Street	Coburg North	Merlynston Main Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	4/29 Devon Road	Pascoe Vale	Local Drainage	UNIT
		✓	29A Devon Road	Pascoe Vale	Local Drainage	
✓	✓	✓	4/31 Devon Road	Pascoe Vale	Local Drainage	UNIT
		✓	33 Devon Road	Pascoe Vale	Local Drainage	
		✓	64 Devon Road	Pascoe Vale	Local Drainage	
	✓	✓	66 Devon Road	Pascoe Vale	Local Drainage	
		✓	5 Dromana Avenue	Pascoe Vale	Local Drainage	
		✓	7 Dromana Avenue	Pascoe Vale	Local Drainage	
		✓	9 Dromana Avenue	Pascoe Vale	Local Drainage	
		✓	19 Dromana Avenue	Pascoe Vale	Local Drainage	
		✓	4 Edgecombe Street	Oak Park	Chapman Ave Main Drain	
✓	✓	✓	6 Edgecombe Street	Oak Park	Chapman Ave Main Drain	
		✓	1/9 Edith Street	Oak Park	Local Drainage	UNIT
		✓	2/9 Edith Street	Oak Park	Local Drainage	UNIT
		✓	3/9 Edith Street	Oak Park	Local Drainage	UNIT
	✓	✓	119 Elizabeth Street	Coburg North	Elizabeth St Main Drain	
		✓	2 Elliott Street	Coburg North	Merlynston Main Drain	
		✓	4 Elliott Street	Coburg North	Merlynston Main Drain	
		✓	6 Elliott Street	Coburg North	Merlynston Main Drain	
		✓	8 Elliott Street	Coburg North	Merlynston Main Drain	
		✓	9 Elliott Street	Coburg North	Merlynston Main Drain	
	✓	✓	10 Elliott Street	Coburg North	Merlynston Main Drain	
		✓	11 Elliott Street	Coburg North	Merlynston Main Drain	
	✓	✓	3 Fairmount Street	Hadfield	South St Drain	
		✓	5 Fairmount Street	Hadfield	South St Drain	
		✓	1 Fame Street	Coburg North	Merlynston Main Drain	
		✓	3 Fame Street	Coburg North	Merlynston Main Drain	
		✓	5 Fame Street	Coburg North	Merlynston Main Drain	
		✓	6/6 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	7/6 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	8/6 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	9/6 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	10/6 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	11/6 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	12/6 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	2/8 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	3/8 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	4/8 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	7/10 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	8/10 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	9/10 Fawcner Road	Pascoe Vale	Westbreen Creek	UNIT

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	10/10 Fawkner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	3/18 Fawkner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	4/18 Fawkner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	5/18 Fawkner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	6/20 Fawkner Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	24 Fawkner Road	Pascoe Vale	Westbreen Creek	
		✓	26 Fawkner Road	Pascoe Vale	Westbreen Creek	
		✓	28 Fawkner Road	Pascoe Vale	Westbreen Creek	
		✓	32 Fawkner Road	Pascoe Vale	Westbreen Creek	
		✓	34 Fawkner Road	Pascoe Vale	Westbreen Creek	
		✓	36 Fawkner Road	Pascoe Vale	Westbreen Creek	
	✓	✓	438 Gaffney Street	Pascoe Vale	Local Drainage	
✓	✓	✓	440-442 Gaffney Street	Pascoe Vale	Local Drainage	
	✓	✓	444A Gaffney Street	Pascoe Vale	Local Drainage	
	✓	✓	444 Gaffney Street	Pascoe Vale	Local Drainage	
	✓	✓	446 Gaffney Street	Pascoe Vale	Local Drainage	
		✓	448 Gaffney Street	Pascoe Vale	Local Drainage	
		✓	450 Gaffney Street	Pascoe Vale	Local Drainage	
		✓	450A Gaffney Street	Pascoe Vale	Local Drainage	
		✓	452 Gaffney Street	Pascoe Vale	Local Drainage	
		✓	456 Gaffney Street	Pascoe Vale	Local Drainage	
		✓	458 Gaffney Street	Pascoe Vale	Local Drainage	
	✓	✓	47-97 Glenroy Road	Glenroy	Local Drainage	
		✓	6/162 Glenroy Road	Glenroy	Acacia St Drain	UNIT
		✓	7/162 Glenroy Road	Glenroy	Acacia St Drain	UNIT
		✓	166A Glenroy Road	Glenroy	Acacia St Drain	
		✓	4/168 Glenroy Road	Glenroy	Acacia St Drain	UNIT
	✓	✓	6 Goff Street	Coburg	Elizabeth St Main Drain	
		✓	26 Guilfoyle Avenue	Coburg North	Merlynston Main Drain	
		✓	28 Guilfoyle Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	33 Guilfoyle Avenue	Coburg North	Merlynston Main Drain	
		✓	3/31 Harold Street	Glenroy	Acacia St Drain	UNIT
		✓	4/31 Harold Street	Glenroy	Acacia St Drain	UNIT
		✓	5/31 Harold Street	Glenroy	Acacia St Drain	UNIT
		✓	2/33 Harold Street	Glenroy	Acacia St Drain	UNIT
	✓	✓	3/33 Harold Street	Glenroy	Acacia St Drain	UNIT
	✓	✓	4/33 Harold Street	Glenroy	Acacia St Drain	UNIT
	✓	✓	5/33 Harold Street	Glenroy	Acacia St Drain	UNIT
	✓	✓	6/33 Harold Street	Glenroy	Acacia St Drain	UNIT
		✓	35 Harold Street	Glenroy	Acacia St Drain	
		✓	102 Hilton Street	Glenroy	West St Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
	✓	✓	2 Hocking Street	Coburg North	Merlynston Main Drain	
	✓	✓	2B Hocking Street	Coburg North	Merlynston Main Drain	
	✓	✓	33 Irene Avenue	Coburg North	Merlynston Main Drain	
✓	✓	✓	35 Irene Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	2A Kent Road	Pascoe Vale	Merlynston Main Drain	
		✓	2 Kent Road	Pascoe Vale	Merlynston Main Drain	
		✓	3 Kiddle Street	Fawkner	Fawkner East Drain	
		✓	1/1 Knole Street	Hadfield	South St Drain	UNIT
		✓	2/1 Knole Street	Hadfield	South St Drain	UNIT
		✓	3/1 Knole Street	Hadfield	South St Drain	UNIT
		✓	4/1 Knole Street	Hadfield	South St Drain	UNIT
		✓	1/3 Knole Street	Hadfield	South St Drain	UNIT
		✓	2/3 Knole Street	Hadfield	South St Drain	UNIT
		✓	3/3 Knole Street	Hadfield	South St Drain	UNIT
✓	✓	✓	6 Knole Street	Hadfield	South St Drain	
		✓	25 Lake Avenue	Pascoe Vale	Local Drainage	
		✓	1/10-12 Lee Street	Fawkner	Local Drainage	UNIT
		✓	2/10-12 Lee Street	Fawkner	Local Drainage	UNIT
		✓	3/10-12 Lee Street	Fawkner	Local Drainage	UNIT
		✓	4/10-12 Lee Street	Fawkner	Local Drainage	UNIT
		✓	5/10-12 Lee Street	Fawkner	Local Drainage	UNIT
✓	✓	✓	8 Lily Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	10 Lily Street	Coburg North	Merlynston Main Drain	
	✓	✓	12 Lily Street	Coburg North	Merlynston Main Drain	
		✓	14 Lily Street	Coburg North	Merlynston Main Drain	
	✓	✓	16 Lily Street	Coburg North	Merlynston Main Drain	
		✓	3 Lindsay Street	Glenroy	Acacia St Drain	
	✓	✓	1/12 Liston Road	Glenroy	Local Drainage	UNIT
		✓	12A Liston Road	Glenroy	Local Drainage	
	✓	✓	12 Liston Road	Glenroy	Local Drainage	
		✓	14 Liston Road	Glenroy	Local Drainage	
		✓	82 Lorne Street	Fawkner	Fawkner East Drain	
		✓	4/96 Lorne Street	Fawkner	Fawkner East Drain	UNIT
		✓	98 Lorne Street	Fawkner	Fawkner East Drain	
		✓	98A Lorne Street	Fawkner	Fawkner East Drain	
		✓	168 Lorne Street	Fawkner	Local Drainage	
	✓	✓	149 Lynch Road	Fawkner	Lynch Road Main Drain	
	✓	✓	151 Lynch Road	Fawkner	Lynch Road Main Drain	
	✓	✓	153 Lynch Road	Fawkner	Lynch Road Main Drain	
	✓	✓	155 Lynch Road	Fawkner	Lynch Road Main Drain	
	✓	✓	157 Lynch Road	Fawkner	Lynch Road Main Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
	✓	✓	2/159 Lynch Road	Fawkner	Lynch Road Main Drain	UNIT
		✓	161 Lynch Road	Fawkner	Lynch Road Main Drain	
		✓	2-6 Lyon Street	Coburg North	Merlynston Main Drain	
		✓	8 Lyon Street	Coburg North	Merlynston Main Drain	
		✓	10 Lyon Street	Coburg North	Merlynston Main Drain	
		✓	1/5 Lyons Street	Glenroy	West St Drain	UNIT
		✓	5 Lyons Street	Glenroy	West St Drain	
		✓	15 Main Street	Pascoe Vale	Local Drainage	
		✓	101F Major Road	Fawkner	Local Drainage	
		✓	103 Major Road	Fawkner	Local Drainage	
		✓	105 Major Road	Fawkner	Local Drainage	
		✓	2/114A Major Road	Fawkner	Local Drainage	UNIT
		✓	120 Major Road	Fawkner	Local Drainage	
		✓	2/2 Margaret Street	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	3/2 Margaret Street	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	4/2 Margaret Street	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	5/2 Margaret Street	Oak Park	Chapman Ave Main Drain	UNIT
		✓	4 Margaret Street	Oak Park	Chapman Ave Main Drain	
		✓	10 Margaret Street	Oak Park	Chapman Ave Main Drain	
✓	✓	✓	4/16 Margaret Street	Oak Park	Chapman Ave Main Drain	UNIT
		✓	3/22 Margaret Street	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	4/22 Margaret Street	Oak Park	Chapman Ave Main Drain	UNIT
		✓	25 Marlborough Street	Fawkner	Fawkner East Drain	
		✓	26 Marlborough Street	Fawkner	Fawkner East Drain	
	✓	✓	27 Marlborough Street	Fawkner	Fawkner East Drain	
✓	✓	✓	28 Marlborough Street	Fawkner	Fawkner East Drain	
		✓	29A Marlborough Street	Fawkner	Fawkner East Drain	
		✓	29 Marlborough Street	Fawkner	Fawkner East Drain	
✓	✓	✓	30 Marlborough Street	Fawkner	Fawkner East Drain	
	✓	✓	32 Marlborough Street	Fawkner	Fawkner East Drain	
	✓	✓	65 Mathieson Street	Coburg North	Fawkner East Drain	
		✓	76 Mathieson Street	Coburg North	Fawkner East Drain	
	✓	✓	1/78 Mathieson Street	Coburg North	Fawkner East Drain	UNIT
	✓	✓	80 Mathieson Street	Coburg North	Fawkner East Drain	
		✓	82 Mathieson Street	Coburg North	Fawkner East Drain	
		✓	92 Mathieson Street	Fawkner	Fawkner East Drain	
		✓	168 Mcbryde Street	Fawkner	Local Drainage	
	✓	✓	8 Meadow Street	Coburg	Elizabeth St Main Drain	
	✓	✓	9 Meadow Street	Coburg	Elizabeth St Main Drain	
✓	✓	✓	11 Meadow Street	Coburg	Elizabeth St Main Drain	
✓	✓	✓	13 Meadow Street	Coburg	Elizabeth St Main Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	20 Meadow Street	Coburg	Elizabeth St Main Drain	
✓	✓	✓	22 Meadow Street	Coburg	Elizabeth St Main Drain	
	✓	✓	3 Mehegan Avenue	Coburg North	Elizabeth St Main Drain	
		✓	60 Melrose Drive	Tullamarine	Local Drainage	
	✓	✓	138 Middle Street	Hadfield	West St Drain	
	✓	✓	140 Middle Street	Hadfield	West St Drain	
	✓	✓	142 Middle Street	Hadfield	West St Drain	
	✓	✓	144 Middle Street	Hadfield	West St Drain	
	✓	✓	1/146 Middle Street	Hadfield	West St Drain	UNIT
	✓	✓	2/146 Middle Street	Hadfield	West St Drain	UNIT
	✓	✓	146 Middle Street	Hadfield	West St Drain	
	✓	✓	146A Middle Street	Hadfield	West St Drain	
		✓	4 Mirrim Place	Gowanbrae	Local Drainage	
		✓	88 Moonee Boulevard	Glenroy	Local Drainage	
	✓	✓	90 Moonee Boulevard	Glenroy	Local Drainage	
	✓	✓	92 Moonee Boulevard	Glenroy	Local Drainage	
		✓	94 Moonee Boulevard	Glenroy	Local Drainage	
		✓	96 Moonee Boulevard	Glenroy	Local Drainage	
		✓	1 Murray Street	Glenroy	Acacia St Drain	
✓	✓	✓	22-40 Murray Road	Coburg North	Elizabeth St Main Drain	
	✓	✓	49-53 Murray Road	Coburg	Elizabeth St Main Drain	
		✓	10 Murrell Street	Glenroy	Acacia St Drain	
		✓	2/12 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	3/12 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	4/12 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	5/12 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	1/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	2/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	3/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	4/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	5/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	6/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	7/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	8/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	9/16 Murrell Street	Glenroy	Acacia St Drain	UNIT
		✓	12 Mutton Road	Fawkner	Fawkner East Drain	
		✓	14 Mutton Road	Fawkner	Fawkner East Drain	
		✓	31 Newlands Road	Coburg North	Local Drainage	
	✓	✓	33 Newlands Road	Coburg North	Local Drainage	
✓	✓	✓	35 Newlands Road	Coburg North	Local Drainage	
✓	✓	✓	37 Newlands Road	Coburg North	Local Drainage	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	39 Newlands Road	Coburg North	Local Drainage	
		✓	69 North Street	Hadfield	Local Drainage	
✓	✓	✓	1/121-125 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	2/121-125 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	3/121-125 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	19/121-125 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	20/121-125 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	127 Northumberland Road	Pascoe Vale	Westbreen Creek	
		✓	1/131 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	2/131 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	3/131 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	4/131 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	133 Northumberland Road	Pascoe Vale	Westbreen Creek	
✓	✓	✓	1/135 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	2/135 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	3/135 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	4/135 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	5/135 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	6/135 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	3/137 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	4/137 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
		✓	5/137 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	6/137 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	7/137 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	8/137 Northumberland Road	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	17 Norton Street	Pascoe Vale	Local Drainage	
		✓	18 Norton Street	Pascoe Vale	Local Drainage	
✓	✓	✓	20 Norton Street	Pascoe Vale	Local Drainage	
		✓	3/9 Oak Street	Pascoe Vale	Local Drainage	UNIT
		✓	1A Osullivan Court	Fawkner	Local Drainage	
		✓	1C Pallett Street	Coburg North	Merlynston Main Drain	
		✓	1B Pallett Street	Coburg North	Merlynston Main Drain	
		✓	1 Pallett Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	7 Pallett Street	Coburg North	Merlynston Main Drain	
		✓	8 Pallett Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	9 Pallett Street	Coburg North	Merlynston Main Drain	
	✓	✓	10 Pallett Street	Coburg North	Merlynston Main Drain	
		✓	11 Pallett Street	Coburg North	Merlynston Main Drain	
	✓	✓	12 Pallett Street	Coburg North	Merlynston Main Drain	
	✓	✓	14 Pallett Street	Coburg North	Merlynston Main Drain	
		✓	15 Park Street	Pascoe Vale	Local Drainage	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	1/27 Park Street	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	2/27 Park Street	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	3/27 Park Street	Pascoe Vale	Local Drainage	UNIT
	✓	✓	4/27 Park Street	Pascoe Vale	Local Drainage	UNIT
		✓	31 Park Street	Pascoe Vale	Local Drainage	
		✓	31A Park Street	Pascoe Vale	Local Drainage	
		✓	2/33 Park Street	Pascoe Vale	Local Drainage	UNIT
		✓	2/526 Pascoe Vale Road	Pascoe Vale	Local Drainage	UNIT
		✓	3/526 Pascoe Vale Road	Pascoe Vale	Local Drainage	UNIT
		✓	567A Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	
✓	✓	✓	1/569 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	2/569 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	3/569 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	4/569 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	UNIT
✓	✓	✓	571 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	
✓	✓	✓	1/573 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	UNIT
		✓	575 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	
		✓	577 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	
		✓	1/579 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	UNIT
		✓	1/581 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	UNIT
	✓	✓	667 Pascoe Vale Road	Oak Park	Chapman Ave Main Drain	
		✓	21 Peachey Court	Pascoe Vale	West St Drain	
		✓	2 Pearl Street	Glenroy	Acacia St Drain	
		✓	5/2 Perkin Avenue	Pascoe Vale	Westbreen Creek	UNIT
		✓	4/4 Perkin Avenue	Pascoe Vale	Westbreen Creek	UNIT
		✓	1 Pleasant Street	Pascoe Vale	Local Drainage	
		✓	1/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	2/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	3/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	4/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	5/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	6/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	7/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	8/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	9/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	10/55 Pleasant Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	29 Primula Boulevard	Gowanbrae	Local Drainage	
		✓	7 Prospect Street	Pascoe Vale	Local Drainage	
	✓	✓	7/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	8/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
		✓	9/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	10/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
		✓	11/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
	✓	✓	12/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	13/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	14/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	15/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
✓	✓	✓	16/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
	✓	✓	17/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
		✓	18/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
		✓	19/8 Prospect Street	Pascoe Vale	Local Drainage	UNIT
		✓	9 Prospect Street	Pascoe Vale	Local Drainage	
		✓	12 Prospect Street	Pascoe Vale	Local Drainage	
		✓	58A Prospect Street	Pascoe Vale	Westbreen Creek	
	✓	✓	60 Prospect Street	Pascoe Vale	Westbreen Creek	
	✓	✓	62 Prospect Street	Pascoe Vale	Westbreen Creek	
✓	✓	✓	6/8 Queens Parade	Fawkner	Fawkner East Drain	UNIT
		✓	9A Queens Parade	Fawkner	Fawkner East Drain	
✓	✓	✓	11 Queens Parade	Fawkner	Fawkner East Drain	
	✓	✓	12 Queens Parade	Fawkner	Fawkner East Drain	
	✓	✓	14 Queens Parade	Fawkner	Fawkner East Drain	
		✓	2/16 Queens Parade	Fawkner	Fawkner East Drain	UNIT
		✓	18A Queens Parade	Fawkner	Fawkner East Drain	
✓	✓	✓	4 Railway Parade	Pascoe Vale	Local Drainage	
✓	✓	✓	6 Railway Parade	Pascoe Vale	Local Drainage	
✓	✓	✓	8 Railway Parade	Pascoe Vale	Local Drainage	
✓	✓	✓	10 Railway Parade	Pascoe Vale	Local Drainage	
		✓	12-14 Railway Parade	Pascoe Vale	Local Drainage	
	✓	✓	16 Railway Parade	Pascoe Vale	Westbreen Creek	
	✓	✓	18 Railway Parade	Pascoe Vale	Westbreen Creek	
	✓	✓	1/20 Railway Parade	Pascoe Vale	Westbreen Creek	UNIT
		✓	30 Renown Street	Coburg North	Merlynston Main Drain	
		✓	1/32 Renown Street	Coburg North	Merlynston Main Drain	UNIT
		✓	2/32 Renown Street	Coburg North	Merlynston Main Drain	UNIT
		✓	3/32 Renown Street	Coburg North	Merlynston Main Drain	UNIT
✓	✓	✓	34 Renown Street	Coburg North	Merlynston Main Drain	
		✓	4/11 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	5/11 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	1/13 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	2/13 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	3/13 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	4/13 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	5/13 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	6/13 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
		✓	1/15 Rhodes Parade	Pascoe Vale	Westbreen Creek	UNIT
		✓	1/2 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
		✓	2/2 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
		✓	3/2 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
		✓	2 Rollo Street	Coburg North	Merlynston Main Drain	
		✓	2B Rollo Street	Coburg North	Merlynston Main Drain	
		✓	2A Rollo Street	Coburg North	Merlynston Main Drain	
		✓	4 Rollo Street	Coburg North	Merlynston Main Drain	
		✓	1/6 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	2/6 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
		✓	8 Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	12 Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	15 Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	17 Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	19 Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	19A Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	21 Rollo Street	Coburg North	Merlynston Main Drain	
	✓	✓	23 Rollo Street	Coburg North	Merlynston Main Drain	
		✓	25 Rollo Street	Coburg North	Merlynston Main Drain	
		✓	27 Rollo Street	Coburg North	Merlynston Main Drain	
		✓	29 Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	31 Rollo Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	1/35 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
✓	✓	✓	2/35 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
✓	✓	✓	3/35 Rollo Street	Coburg North	Merlynston Main Drain	UNIT
✓	✓	✓	37 Rollo Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	39 Rollo Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	41 Rollo Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	43 Rollo Street	Pascoe Vale	Merlynston Main Drain	
	✓	✓	1 Shaw Court	Coburg North	Merlynston Main Drain	
		✓	2 Shaw Court	Coburg North	Merlynston Main Drain	
		✓	2A Shaw Court	Coburg North	Merlynston Main Drain	
✓	✓	✓	3 Shaw Court	Coburg North	Merlynston Main Drain	
✓	✓	✓	4 Shaw Court	Coburg North	Merlynston Main Drain	
	✓	✓	5 Shaw Court	Coburg North	Merlynston Main Drain	
		✓	6 Shaw Court	Coburg North	Merlynston Main Drain	
		✓	7 Shaw Court	Coburg North	Merlynston Main Drain	
		✓	14A Shore Grove	Coburg North	Local Drainage	
		✓	68 Shorts Road	Coburg North	Merlynston Main Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	70 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	72 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	78 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	80 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	82 Shorts Road	Coburg North	Merlynston Main Drain	
	✓	✓	84 Shorts Road	Coburg North	Merlynston Main Drain	
	✓	✓	1/86 Shorts Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	86 Shorts Road	Coburg North	Merlynston Main Drain	
		✓	88A Shorts Road	Coburg North	Merlynston Main Drain	
		✓	88B Shorts Road	Coburg North	Merlynston Main Drain	
		✓	88 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	93 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	95 Shorts Road	Coburg North	Merlynston Main Drain	
	✓	✓	1/97 Shorts Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	2/97 Shorts Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	3/97 Shorts Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	4/97 Shorts Road	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	5/97 Shorts Road	Coburg North	Merlynston Main Drain	UNIT
✓	✓	✓	99 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	101 Shorts Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	103 Shorts Road	Coburg North	Merlynston Main Drain	
		✓	3/30 Snell Grove	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	4/30 Snell Grove	Pascoe Vale	Westbreen Creek	UNIT
		✓	1/2 South Street	Hadfield	Middle St Drain	UNIT
		✓	2/2 South Street	Hadfield	Middle St Drain	UNIT
		✓	1/4A South Street	Hadfield	South St Drain	UNIT
		✓	2/4A South Street	Hadfield	South St Drain	UNIT
		✓	3/4A South Street	Hadfield	South St Drain	UNIT
		✓	4/4A South Street	Hadfield	South St Drain	UNIT
		✓	5/4A South Street	Hadfield	South St Drain	UNIT
		✓	4A South Street	Hadfield	South St Drain	
		✓	1 Sturdee Street	Coburg North	Merlynston Main Drain	
		✓	3 Sturdee Street	Coburg North	Merlynston Main Drain	
		✓	5 Sturdee Street	Coburg North	Merlynston Main Drain	
		✓	215 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	217 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	219 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	221 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	223 Sussex Street	Pascoe Vale	Merlynston Main Drain	
	✓	✓	225 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	227 Sussex Street	Pascoe Vale	Merlynston Main Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek

Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	229 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	231 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	233 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	235-237 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	246 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	248 Sussex Street	Pascoe Vale	Merlynston Main Drain	
	✓	✓	250 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	260 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	1/262 Sussex Street	Pascoe Vale	Merlynston Main Drain	UNIT
✓	✓	✓	2/262 Sussex Street	Pascoe Vale	Merlynston Main Drain	UNIT
✓	✓	✓	3/262 Sussex Street	Pascoe Vale	Merlynston Main Drain	UNIT
✓	✓	✓	4/262 Sussex Street	Pascoe Vale	Merlynston Main Drain	UNIT
✓	✓	✓	262 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	262A Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	266 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	268 Sussex Street	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	270 Sussex Street	Pascoe Vale	Merlynston Main Drain	
	✓	✓	272 Sussex Street	Pascoe Vale	Merlynston Main Drain	
	✓	✓	274 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	276 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	278 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	280 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	282 Sussex Street	Pascoe Vale	Merlynston Main Drain	
	✓	✓	290 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	1/292 Sussex Street	Pascoe Vale	Merlynston Main Drain	UNIT
	✓	✓	2/292 Sussex Street	Pascoe Vale	Merlynston Main Drain	UNIT
		✓	337 Sussex Street	Pascoe Vale	Merlynston Main Drain	
		✓	339 Sussex Street	Pascoe Vale	Merlynston Main Drain	
	✓	✓	1187 Sydney Road	Hadfield	Local Drainage	
		✓	1340 Sydney Road	Fawkner	Fawkner North Drain	
		✓	19 Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	21 Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	23 Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	24 Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	1/25 Tonkin Avenue	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	2/25 Tonkin Avenue	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	3/25 Tonkin Avenue	Coburg North	Merlynston Main Drain	UNIT
	✓	✓	26 Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	27A Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	27 Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	28 Tonkin Avenue	Coburg North	Merlynston Main Drain	

Properties at risk from Flash Flooding (over 30cm depth in yard close to the primary building location) in northern Merri-bek						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Watercourse	Build Type
20% AEP	5% AEP	1% AEP				
		✓	29 Tonkin Avenue	Pascoe Vale	Merlynston Main Drain	
✓	✓	✓	30B Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	30A Tonkin Avenue	Coburg North	Merlynston Main Drain	
	✓	✓	30 Tonkin Avenue	Coburg North	Merlynston Main Drain	
		✓	18 Ulm Street	Coburg North	Merlynston Main Drain	
		✓	20 Ulm Street	Coburg North	Merlynston Main Drain	
		✓	1/22-24 Ulm Street	Coburg North	Merlynston Main Drain	UNIT
		✓	2/22-24 Ulm Street	Coburg North	Merlynston Main Drain	UNIT
		✓	3/22-24 Ulm Street	Coburg North	Merlynston Main Drain	UNIT
		✓	22-24 Ulm Street	Coburg North	Merlynston Main Drain	
✓	✓	✓	1 Victoria Street	Oak Park	Chapman Ave Main Drain	
✓	✓	✓	14 Warner Street	Coburg North	Merlynston Main Drain	
		✓	6 West Street	Pascoe Vale	West St Drain	
		✓	18 Williams Road	Coburg North	Merlynston Main Drain	
		✓	20 Williams Road	Coburg North	Merlynston Main Drain	
		✓	22 Williams Road	Coburg North	Merlynston Main Drain	
		✓	24 Williams Road	Coburg North	Merlynston Main Drain	
		✓	26 Williams Road	Coburg North	Merlynston Main Drain	
		✓	43 Williams Road	Coburg North	Merlynston Main Drain	
		✓	45 Williams Road	Coburg North	Merlynston Main Drain	
		✓	49 Williams Road	Coburg North	Merlynston Main Drain	
		✓	51 Williams Road	Coburg North	Merlynston Main Drain	
		✓	53 Williams Road	Coburg North	Merlynston Main Drain	
✓	✓	✓	1 Winifred Street	Oak Park	Chapman Ave Main Drain	
		✓	2C Winifred Street	Oak Park	Chapman Ave Main Drain	
	✓	✓	3 Winifred Street	Oak Park	Chapman Ave Main Drain	
		✓	1/5 Winifred Street	Oak Park	Chapman Ave Main Drain	UNIT
		✓	2/5 Winifred Street	Oak Park	Chapman Ave Main Drain	UNIT
		✓	2/7 Winifred Street	Oak Park	Chapman Ave Main Drain	UNIT
	✓	✓	3/7 Winifred Street	Oak Park	Chapman Ave Main Drain	UNIT
	✓	✓	4/7 Winifred Street	Oak Park	Chapman Ave Main Drain	UNIT
		✓	91 Winifred Street	Oak Park	Local Drainage	
		✓	93 Winifred Street	Oak Park	Local Drainage	
		✓	95 Winifred Street	Oak Park	Local Drainage	
	✓	✓	97 Winifred Street	Oak Park	Local Drainage	
	✓	✓	97A Winifred Street	Oak Park	Local Drainage	
		✓	99 Winifred Street	Oak Park	Local Drainage	
Totals						
157	319	639				

Table C3.3 – Properties at risk of flash flooding in the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawkner, Pascoe Vale & Coburg North

Isolation

No major isolation risks exist for areas around the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawkner, Pascoe Vale & Coburg North during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

Essential infrastructure

The **Craigieburn Railway Line at Pascoe Vale Station** and the Gaffney Street crossing may be overtopped during a 1% AEP Rainfall 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 Merri-bek is available via the website at: https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/37_Merri-bek_LAM.pdf

Apart from the roads outlined below, all other essential infrastructure and services areas around the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawkner, Pascoe Vale & Coburg North are expected to remain unaffected by flooding during a 1% AEP (100yr ARI) event.

Road closures

The following roads in the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawkner, Pascoe Vale & Coburg North are subject to flooding over 30cm depth (minimum 50m length of impact) and may require closure or signage whilst flooded. Check the VicTraffic website for the current status: <https://traffic.transport.vic.gov.au/>

Roads at risk of flash flooding over 30cm depth (minimum 50m length) in Northern Merri-bek						
Street at Risk in AEP Event			Road	Suburb	Owner	Flood Risk Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	Bateman Court	Coburg	Merri-bek City Council	Flash
	✓	✓	Meadow Street	Coburg	Merri-bek City Council	Flash
	✓	✓	Adler Grove	Coburg North	Merri-bek City Council	Flash
	✓	✓	Allenby Street	Coburg North	Merri-bek City Council	Flash
	✓	✓	Bakers Road	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Bridges Avenue	Coburg North	Merri-bek City Council	Flash
		✓	Catherine Street	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Claremont Street	Coburg North	Merri-bek City Council	Flash
	✓	✓	Dawson Street	Coburg North	Merri-bek City Council	Flash
		✓	Elliott Street	Coburg North	Merri-bek City Council	Flash
		✓	Guilfoyle Avenue	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Irene Avenue	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Lily Street	Coburg North	Merri-bek City Council	Flash
	✓	✓	Mathieson Street	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Mehegan Avenue	Coburg North	Merri-bek City Council	Flash
	✓	✓	Pallett Street	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Peterson Avenue	Coburg North	Merri-bek City Council	Flash
		✓	Renown Street	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Shaw Court	Coburg North	Merri-bek City Council	Flash

Roads at risk of flash flooding over 30cm depth (minimum 50m length) in Northern Merri-bek						
Street at Risk in AEP Event			Road	Suburb	Owner	Flood Risk Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	Shorts Road	Coburg North	Merri-bek City Council	Flash
✓	✓	✓	Ulm Street	Coburg North	Merri-bek City Council	Flash
	✓	✓	Warner Street	Coburg North	Merri-bek City Council	Flash
		✓	Williams Road	Coburg North	Merri-bek City Council	Flash
	✓	✓	Argyle Street	Fawkner	Merri-bek City Council	Flash
	✓	✓	Clara Street	Fawkner	Merri-bek City Council	Flash
	✓	✓	Edward Street	Fawkner	Merri-bek City Council	Flash
		✓	Jukes Road	Fawkner	Merri-bek City Council	Flash
		✓	Kiddle Street	Fawkner	Merri-bek City Council	Flash
	✓	✓	Lee Street	Fawkner	Merri-bek City Council	Flash
		✓	Leo Street	Fawkner	Merri-bek City Council	Flash
	✓	✓	Lorne Street	Fawkner	Merri-bek City Council	Flash
	✓	✓	Lynch Road	Fawkner	Merri-bek City Council	Flash
	✓	✓	Major Road	Fawkner	Merri-bek City Council	Flash
		✓	Major Road	Fawkner	Merri-bek City Council	Flash
	✓	✓	Mutton Road	Fawkner	Merri-bek City Council	Flash
	✓	✓	Osullivan Court	Fawkner	Merri-bek City Council	Flash
	✓	✓	Sahara Way	Fawkner	Merri-bek City Council	Flash
		✓	Shirley Street	Fawkner	Merri-bek City Council	Flash
		✓	Star Court	Fawkner	Merri-bek City Council	Flash
		✓	Tabilk Street	Fawkner	Merri-bek City Council	Flash
		✓	Wurruk Street	Fawkner	Merri-bek City Council	Flash
		✓	Hilton Street	Glenroy	Merri-bek City Council	Flash
		✓	Hilton Street	Glenroy	Merri-bek City Council	Flash
✓	✓	✓	Liston Road	Glenroy	Merri-bek City Council	Flash
	✓	✓	May Street	Glenroy	Merri-bek City Council	Flash
	✓	✓	Mitchell Circuit	Glenroy	Merri-bek City Council	Flash
	✓	✓	Murrell Street	Glenroy	Merri-bek City Council	Flash
	✓	✓	Coventry Street	Gowanbrae	Merri-bek City Council	Flash
	✓	✓	Gowanbrae Drive	Gowanbrae	Merri-bek City Council	Flash
		✓	Primula Boulevard	Gowanbrae	Merri-bek City Council	Flash
✓	✓	✓	Boundary Road	Hadfield	Department of Transport and Planning	Flash
		✓	Box Forest Road	Hadfield	Department of Transport and Planning	Flash
		✓	Dickinson Street	Hadfield	Merri-bek City Council	Flash
	✓	✓	Everitt Street	Hadfield	Merri-bek City Council	Flash
		✓	Fairmount Street	Hadfield	Merri-bek City Council	Flash
✓	✓	✓	Halsbury Street	Hadfield	Merri-bek City Council	Flash
		✓	Middle Street	Hadfield	Merri-bek City Council	Flash
		✓	Mikado Street	Hadfield	Merri-bek City Council	Flash
		✓	Samson Street	Hadfield	Merri-bek City Council	Flash
		✓	South Street	Hadfield	Merri-bek City Council	Flash
		✓	Sutherland Street	Hadfield	Merri-bek City Council	Flash

Roads at risk of flash flooding over 30cm depth (minimum 50m length) in Northern Merri-bek						
Street at Risk in AEP Event			Road	Suburb	Owner	Flood Risk Type
20% AEP	5% AEP	1% AEP				
	✓	✓	Tassell Street	Hadfield	Merri-bek City Council	Flash
		✓	Third Avenue	Hadfield	Merri-bek City Council	Flash
		✓	Volga Street	Hadfield	Merri-bek City Council	Flash
		✓	Athens Place	Oak Park	Merri-bek City Council	Flash
	✓	✓	Devereaux Street	Oak Park	Merri-bek City Council	Flash
	✓	✓	Pascoe Vale Road	Oak Park	Department of Transport and Planning	Flash
✓	✓	✓	Victoria Street	Oak Park	Merri-bek City Council	Flash
✓	✓	✓	Waterloo Road	Oak Park	Merri-bek City Council	Flash
		✓	Winifred Street	Oak Park	Merri-bek City Council	Flash
		✓	Winifred Street	Oak Park	Merri-bek City Council	Flash
✓	✓	✓	Crowley Court	Pascoe Vale	Merri-bek City Council	Flash
	✓	✓	Gaffney Street	Pascoe Vale	Department of Transport and Planning	Flash
		✓	Joffre Road	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Kent Road	Pascoe Vale	Merri-bek City Council	Flash
		✓	Lake Avenue	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Northumberland Road	Pascoe Vale	Merri-bek City Council	Flash
		✓	Northumberland Road	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Norton Street	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Park Street	Pascoe Vale	Merri-bek City Council	Flash
		✓	Pascoe Street	Pascoe Vale	Department of Transport and Planning	Flash
✓	✓	✓	Peachey Court	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Railway Parade	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Rhodes Parade	Pascoe Vale	Department of Transport and Planning	Flash
✓	✓	✓	Rollo Street	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Sussex Street	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Sussex Street	Pascoe Vale	Merri-bek City Council	Flash
✓	✓	✓	Tonkin Avenue	Pascoe Vale	Merri-bek City Council	Flash
Totals						
27	55	88				

Table C3.4 – Roads subject to flash flooding over 30cm depth (minimum 50m length of impact) which may require closure whilst flooded

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
Box Forest Road	Merlynston Creek	3.3 ha	54 ML	First: 77.2mAHD Second: 77.8mAHD	77.8m AHD	4.3m (78.7m AHD)	High C	1	17 E2
Campbellfield Creek	Campbellfield Creek	5.4 ha	132 ML	83.9m AHD	84.8m AHD	4.9m	High C	4	7 F12
Comm Serum Laboratories	Merlynston Creek	16 ha	382 ML	102.2m AHD	103.1m AHD	10.1m (103.7m AHD)	High A	56	7 B11

Table C3.5 – Melbourne Water Retarding Basins within the Merlynston and Campbellfield Creek catchment in the City of Merri-bek

Sewerage infrastructure

Sewerage Infrastructure of note during a severe flood event located around the Merlynston and Campbellfield Creek is contained within the following table.

Sewer Emergency Relief Points

There are Sewer Emergency Relief Points along Merlynston and Campbellfield creeks that will likely affect floodwater conditions should they be activated. Contact the Infrastructure Operator EMLO/Duty Officer for information on any recent or planned releases at a Sewer Emergency Relief Point as part of a Dynamic Risk Assessment (DRA) if work is to be conducted at or downstream of the outlet.

On Drain / Waterway	Bank / Side of Waterway	Operator	Location	Melway Reference
Campbellfield Creek	West (Hume)	Yarra Valley Water	The Gateway, Broadmeadows	7 F11
Merlynston Creek	-	Yarra Valley Water	Martin Reserve, Box Forest Road, Hadfield	17 F2
Merlynston Main Drain	-	Yarra Valley Water	Cnr Sussex Street and Kent Road, Pascoe Vale	17 E7
Merlynston Main Drain	-	Yarra Valley Water	Bridges Avenue, Coburg North	17 E7
Merlynston Main Drain	-	Yarra Valley Water	Allenby Street, Coburg North	17 G9
South Street Drain	-	Yarra Valley Water	Cnr South Street and Fairmont Street, Hadfield	17 E5

Table C3.7 – Sewer Emergency Relief Points along the Merlynston and Campbellfield creeks in the City of Moreland

Flood impacts and operational considerations (intelligence cards)

The table on the following pages provide a breakdown of the possible consequences of flooding along the Merlynston and Campbellfield creeks at various drain heights within the City of Merri-bek. This table is 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:

- Merlynston Creek at Fawkner
- Stormwater Drains for Northern Merri-bek.

FLOOD INTELLIGENCE CARD – FAWKNER GAUGE, MERLYNSTON CREEK

Version 4 – March 2024



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. **Scan the QR code for the current rain totals for this gauge.***

LOCATION:	Fawkner Cemetery at Sussex St, Hadfield
CURRENT LEVEL:	https://www.melbournwater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229402A
STREAM:	Merlynston Creek
GAUGE NUMBER:	229402A
GAUGE ZERO:	64.61m AHD
GAUGE TYPE:	Stream Level & Rain

MINOR:	Not Established
MODERATE:	Not Established
MAJOR:	Not Established
LEVEE HEIGHT:	N/A
MELWAY REFERENCE:	17 E5
HIGHEST RECORDED FLOOD:	2.67m (26 th January 1963)

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
1.89m		Bank full at gauging location	
2.26m	20% AEP (5yr ARI) Flood Level	Properties at Flood Risk (over 30cm depth in yard at the primary building location) (Refer to property table in this appendix for more detail) 63 Properties in Total 42 residential properties in Coburg North and Pascoe Vale along the Merlynston Main Drain 3 factories in Coburg North along the Merlynston Main Drain 13 commercial businesses in Pascoe Vale along the Merlynston Main Drain 5 public use spaces in Coburg North along the Merlynston Main Drain Community Infrastructure Likely Flooded - Coburg North Linier Reserve, Coburg North - Sanger Reserve, Coburg North Essential Infrastructure Likely Impacted - Campbellfield Creek Retarding Basin spillway in operation Water Over Road (over 30cm depth) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Boundary Road, Coburg North between Sussex Street and Rodney Avenue 12 local roads in Coburg North, Hadfield and Pascoe Vale	VICSES may provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. VICSES to respond on a request by request basis. Council and DTP (as appropriate) to provide road closure signage under predetermined arrangements

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
2.56m	10% AEP (10yr ARI) Flood Level		
2.61m	3 rd December 2003 Flood Level peak		
2.79m	5% AEP (20yr ARI) Flood Level	Properties at Flood Risk (over 30cm depth in yard at the primary building location) 141 Properties in Total 86 residential properties in Coburg North and Pascoe Vale along the Merlynston Main Drain 35 factories in Coburg North along the Merlynston Main Drain 14 commercial businesses in Pascoe Vale along the Merlynston Main Drain 6 public use spaces in Coburg North along the Merlynston Main Drain Community Infrastructure Likely Flooded - Parts of the Northern Memorial Park Cemetery on Evell Street, Glenroy flooded - Parts of the Fawkner Cemetery on Sydney Road, Hadfield flooded - Coburg North Linier Reserve, Coburg North - Sanger Reserve, Coburg North Essential Infrastructure Likely Impacted - Campbellfield Creek Retarding Basin at Full Supply Level with the spillway in operation - Floodwaters at Box Forest Road Retarding Basin at First Spillway Level - Bus Route 534 along Boundary Road, Sussex Street and Shorts Road, Coburg North - Sewer Emergency Relief Points located at The Gateway, Broadmeadows; Martin Reserve on Box Forest Road, Hadfield; the corner of Sussex St and Kent Rd, Pascoe Vale; Bridges Ave, Coburg North; Allenby St, Coburg North; and the corner of South St and Fairmont St, Hadfield Water Over Road (over 30cm depth) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Boundary Road, Coburg North between Sussex Street and Rodney Avenue 18 local roads in Coburg North, Hadfield and Pascoe Vale	VICSES may provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. VICSES to respond on a request by request basis. Local unit will likely require additional support from surrounding units due to high RFA numbers MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters Council and DTP (as appropriate) to provide road closure signage under predetermined arrangements
2.98m	2% AEP (50yr ARI) Flood Level		
3.13m	1% AEP (100yr ARI) Flood Level	Properties at Flood Risk (over 30cm depth in yard at the primary building location) 252 Properties in Total 149 residential properties in Coburg North and Pascoe Vale along the Merlynston Main Drain 81 factories in Coburg North along the Merlynston Main Drain 16 commercial businesses in Pascoe Vale along the Merlynston Main Drain 6 public use spaces in Coburg North along the Merlynston Main Drain Community Infrastructure Likely Flooded - Parts of the Northern Memorial Park Cemetery on Evell Street, Glenroy flooded - Parts of the Fawkner Cemetery on Sydney Road, Hadfield flooded - Coburg North Linier Reserve, Coburg North	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		- Sanger Reserve, Coburg North Essential Infrastructure Likely Impacted - Campbellfield Creek Retarding Basin exceeded Full Supply Level. Expect greater flooding downstream as a result. - Box Forest Road Retarding Basin First Spillway in operation - Bus Route 527 on Box Forest Road, Hadfield at Fairleigh Street - Bus Route 534 along Boundary Road, Sussex Street and Shorts Road, Coburg North - Sewer Emergency Relief Points located at The Gateway, Broadmeadows; Martin Reserve on Box Forest Road, Hadfield; the corner of Sussex St and Kent Rd, Pascoe Vale; Bridges Ave, Coburg North; Allenby St, Coburg North; and the corner of South St and Fairmont St, Hadfield Water Over Road (over 30cm depth) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Boundary Road, Coburg North between Sussex Street and Rodney Avenue - Box Forest Road, Hadfield at Fairleigh Street 23 local roads in Coburg North, Hadfield and Pascoe Vale	VICSES to respond on a request by request basis. Local unit will likely require additional support from surrounding units due to high RFA numbers Council and DTP (as appropriate) to provide road closure signage under predetermined arrangements

Table C3.8 – Breakdown of likely consequences at various Fawcner gauge level heights in the suburbs of Gowanbrae, Glenroy, Oak Park, Hadfield, Fawcner, Pascoe Vale & Coburg North within the City of Merri-bek with operational considerations

FLOOD INTELLIGENCE CARD – STORMWATER DRAINS FOR NORTHERN MERRI-BEK (UNGAUGED)

Version 1 – March 2024



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. **Scan the QR code for the current rain totals for this gauge.***

CLOSEST RAIN GAUGE:	Merlynston Creek at Fawkner
LOCATION:	Fawkner Cemetery at Sussex St, Hadfield
WEBSITE:	https://www.melbournewater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229402A

MELWAY REF:	17 E5
GAUGE NUMBER:	229402A
GAUGE TYPE:	Stream Level & Rain

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
11mm in 10 mins; 18mm in 30 mins; 23mm in 1 hour; 29mm in 2 hours; 33mm 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)	Properties at Flood Risk (over 30cm depth in yard close to the primary building location) (Refer to property table in this appendix for more detail) 93 Properties in Total 84 residential properties in Glenroy, Pascoe Vale, Oak Park, Fawkner, Hadfield, Coburg and Coburg North 5 commercial businesses in Pascoe Vale 1 factory in Coburg North 3 public use spaces in Pascoe Vale and Coburg North Community Infrastructure Likely Flooded - F Cox Reserve at 22-40 Murray Road, Coburg North - H.M. Dowd Reserve on Rhodes Parade, Pascoe Vale - Pascoe Vale Elderly Citizens Centre at 20 Norton Street, Pascoe Vale - Westbreen Creek Bicycle / Walking Trail Essential Infrastructure Likely Impacted - Bus Route 513 on Rhodes Parade, Pascoe Vale - Bus Route 526 on Claremont Street, Coburg North - Bus Route 542 on Northumberland Road and Railway Parade, Pascoe Vale - Bus Route 561 on Railway Parade, Pascoe Vale Water Over Road (over 30cm depth) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Rhodes Parade, Pascoe Vale at H.M. Dowd Reserve	VICSES may provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. VICSES to respond on a request by request basis. Council and DTP (as appropriate) to provide road closure signage under predetermined arrangements

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		15 local roads in Coburg, Coburg North, Glenroy, Hadfield, Oak Park and Pascoe Vale	
17mm in 10 mins; 27mm in 30 mins; 34mm in 1 hour; 42mm in 2 hours; 47mm in 3 hours; or 60mm 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.	5% AEP (20-year ARI)	Properties at Flood Risk (over 30cm depth in yard close to the primary building location) (Refer to property table in this appendix for more detail) 176 Properties in Total 144 residential properties in Glenroy, Pascoe Vale, Oak Park, Fawkner, Hadfield, Coburg and Coburg North 18 commercial businesses in Pascoe Vale, Hadfield and Glenroy 8 factories in Pascoe Vale, Fawkner and Coburg North 6 public use spaces in Pascoe Vale, Fawkner, Hadfield and Coburg North Community Infrastructure Likely Flooded - Baby Beckett Children's Centre at 12 Connolly Avenue, Coburg - F Cox Reserve at 22-40 Murray Road, Coburg North - H.M. Dowd Reserve on Rhodes Parade, Pascoe Vale - James Reserve, Prospect Street, Pascoe Vale - Pascoe Vale Elderly Citizens Centre at 20 Norton Street, Pascoe Vale - Oak Park Children's Centre at 667 Pascoe Vale Road, Oak Park - Westbreen Creek Bicycle / Walking Trail Essential Infrastructure Likely Impacted - The Craigieburn Railway Line at Pascoe Vale Station and the Gaffney Street crossing - Bus Route 490 along Coventry Street and Gowanbrae Drive, Gowanbrae - Bus Route 513 on Rhodes Parade, Pascoe Vale - Bus Route 526 on Claremont Street, Coburg North - Bus Route 530 on Lorne Street, Major Road and Mutton Road, Fawkner - Bus Route 542 on Northumberland Road and Railway Parade, Pascoe Vale - Bus Route 561 on Railway Parade and Gaffney Street, Pascoe Vale Water Over Road (over 30cm depth) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Gaffney Street, Pascoe Vale at Railway Crossing - Pascoe Vale Road, Oak Park between Strachan Street and Devon Road - Rhodes Parade, Pascoe Vale at H.M. Dowd Reserve 37 local roads in Coburg, Coburg North, Fawkner, Glenroy, Gowanbrae, Hadfield, Oak Park and Pascoe Vale	VICSES may provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. VICSES to respond on a request by request basis. Council and DTP (as appropriate) to provide road closure signage under predetermined arrangements
24mm in 10 mins; 40mm in 30 mins; 50mm in 1 hour; 61mm in 2 hours; 69mm in 3 hours; or 87mm in 6 hours	1% AEP (100-year ARI)	Properties at Flood Risk (over 30cm depth in yard close to the primary building location) (Refer to property table in this appendix for more detail) 385 Properties in Total 341 residential properties in Glenroy, Pascoe Vale, Oak Park, Fawkner, Hadfield, Coburg and Coburg North 22 commercial businesses in Pascoe Vale, Hadfield and Glenroy 14 factories in Pascoe Vale, Fawkner and Coburg North	VICSES may provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.

Appendix C4 – Southern Merri-bek flash flood emergency plan

Overview of 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 around Coburg, Brunswick, Brunswick East & Pascoe Vale South					
Property					
Properties	440				
Residential	364				
Commercial	68				
Industrial	5				
Public Land	3				
Rural	0				
Community Infrastructure					
Retirement Villages	1	Wintringham Gilgunya Aged Care Village			
Schools / Colleges	2	Lynnal Hall Community School; and Brunswick South West Primary School			
Child Care / Kindergartens	1	Dunstan Reserve Child Care Centre			
Community Venues	2	Coburg West Bowling Club; & Jacobs Reserve Scout Hall			
Essential Infrastructure					
Major Roads	2	Bell Street, Coburg and Gaffney Street, Pascoe Vale			
Tram Routes	2	1 and 6 on Lygon Street, Brunswick East			
Bus Routes	7	503, 506, 509; 512; 513; 527, and 561			
Sewerage Facilities	11	Emergency Relief Points			
Levees	1	Alister Street, Fitzroy North			
Tourism / Recreation					
Reserves and Parks	7	Coburg Station Reserve, Coburg; Esslemont Reserve, Pascoe Vale; Gilpin Park, Brunswick; Jacobs Reserve, Brunswick West; L.D. Johns Reserve, Brunswick West; Mailer Reserve, Coburg; and McCleery Reserve, Coburg			
Recreation Facilities	1	Bicycle / Walking Trail at Dunstun Reserve, Brunswick West			
Government Boundaries					
Local Gov't Areas	1	Merri-bek	CMA	1	Port Phillip & Westernport
Adjacent LGAs	2	Yarra and City of Melbourne	CFA District	0	
SES Unit Area	1	Fawkner	FRV District	1	Northern

Table C4.1 – Consequence Summary of 1% AEP flash flood around Coburg, Brunswick, Brunswick East and Pascoe Vale South.

The city suburbs of Coburg, Pascoe Vale South, Brunswick West, Brunswick and Brunswick East are located approximately 8km north of Melbourne in a predominantly residential zone. Seven main stormwater drains run through the area: The Melville, Albion Street, Hope Street, Harding Street, Elizabeth Street, The Avenue and Glenlyon Road Main Drains. The Melville, Albion and Hope Street drains converge in Brunswick West before discharging into Moonee Ponds Creek on the western border of the Municipality, the Harding Street, Elizabeth Street, The Avenue and Glenlyon Road drains discharge into Merri Creek in Coburg and Brunswick East.

Flash flooding is the main concern for the area with high Intensity, short duration rainfall likely to cause this. A number of houses exist in overland flow paths, with some of these properties at risk from flooding above floor level. See mapping in [Appendix F](#) for more insight into flooding in the area.

Gauges and warnings

Neither the Bureau of Meteorology nor Melbourne Water currently provides flood forecasts for the stormwater drains around Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale South. All flood response actions must therefore be driven by rainfall and / or river level observations. Telemetered water level / flood gauges are located at Flemington along Moonee Ponds Creek catchment and Coburg on the Merri Creek.

Gauge	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Essendon North	586182	North Essendon Service Reservoirs on Lebanon St, Essendon Fields		✓	16 D7
Essendon Airport AWS	86038	Essendon Airport at Perimeter Rd, Essendon Fields		✓	16 E8
Merri Creek at Bell Street, Coburg	229645A	West side of the Creek at the Bell St Bridge, Coburg	✓	✓	30 A1
Merri Creek at St Georges Road, Northcote	229149A	East side of the creek in Green Reserve at end of Union St, Northcote	✓	✓	30 D10
Moonee Ponds Creek at Flemington	229643A	West side of the channel along the Moonee Ponds Creek Trail near Delhi Ct, Travancore	✓	✓	29 B12

Table C4.2 – Gauges close to Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale South

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>. The Bureau of Meteorology's website also links a number of these gauges at: http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDV60201.html. It is advised that residents monitor the Bureau of Meteorology's website <http://www.bom.gov.au/vic/warnings/index.shtml?ref=hdr> and the VicEmergency website <https://emergency.vic.gov.au/> for any thunderstorm, flood or severe weather warnings present for their area.

Map of flash flood risk around southern Merri-bek (Pascoe Vale South, Coburg, Brunswick, Brunswick East and Brunswick West)

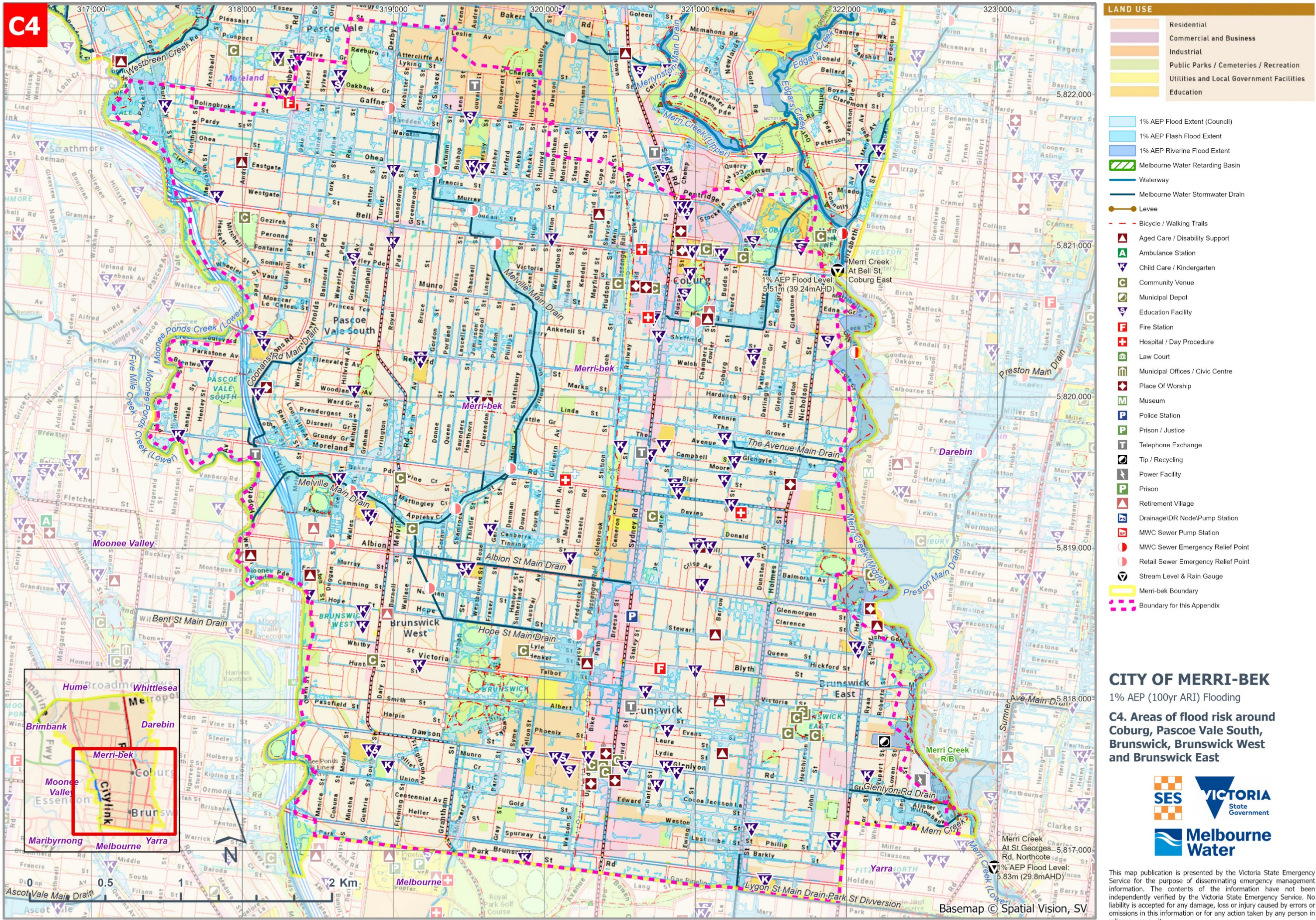


Figure C5 – Areas of flood risk around Coburg, Brunswick, Brunswick East and Pascoe Vale South in the City of Merri-bek

Properties at risk

Properties listed in the table below are at risk from flash flooding (over 30cm depth in yard close to the primary building location) in the suburbs of Pascoe Vale South, Coburg, Brunswick, Brunswick West and Brunswick East. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Merri-bek Flood Mapping Project (Melbourne Water and Engeny, November 2022). 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 VICSES for the purpose of disseminating emergency management information. The contents of the information have not been independently verified by VICSES. 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 flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek						
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				
		✓	105 Albert Street	Brunswick	Local Drainage	
		✓	107 Albert Street	Brunswick	Local Drainage	
	✓	✓	109 Albert Street	Brunswick	Local Drainage	
	✓	✓	111 Albert Street	Brunswick	Local Drainage	
	✓	✓	125 Albert Street	Brunswick	Local Drainage	
		✓	1/127 Albert Street	Brunswick	Local Drainage	UNIT
	✓	✓	2/127 Albert Street	Brunswick	Local Drainage	UNIT
		✓	127 Albert Street	Brunswick	Local Drainage	
		✓	132 Albert Street	Brunswick	Local Drainage	
	✓	✓	134 Albert Street	Brunswick	Local Drainage	
	✓	✓	1/138 Albert Street	Brunswick	Local Drainage	UNIT
	✓	✓	2/138 Albert Street	Brunswick	Local Drainage	UNIT
	✓	✓	3/138 Albert Street	Brunswick	Local Drainage	UNIT
	✓	✓	4/138 Albert Street	Brunswick	Local Drainage	UNIT
	✓	✓	142 Albert Street	Brunswick	Local Drainage	
	✓	✓	144 Albert Street	Brunswick	Local Drainage	
	✓	✓	146 Albert Street	Brunswick	Local Drainage	
	✓	✓	148 Albert Street	Brunswick	Local Drainage	
	✓	✓	150 Albert Street	Brunswick	Local Drainage	
	✓	✓	152 Albert Street	Brunswick	Local Drainage	
	✓	✓	154 Albert Street	Brunswick	Local Drainage	
	✓	✓	156 Albert Street	Brunswick	Local Drainage	
	✓	✓	168 Albert Street	Brunswick	Local Drainage	
		✓	170 Albert Street	Brunswick	Local Drainage	
✓	✓	✓	348-374 Albert Street	Brunswick	Local Drainage	
✓	✓	✓	348 Albert Street	Brunswick	Local Drainage	
		✓	1/208 Albion Street	Brunswick	Albion St Main Drain	UNIT
		✓	2/208 Albion Street	Brunswick	Albion St Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	3/208 Albion Street	Brunswick	Albion St Main Drain	UNIT
		✓	4/208 Albion Street	Brunswick	Albion St Main Drain	UNIT
		✓	5/208 Albion Street	Brunswick	Albion St Main Drain	UNIT
		✓	6/208 Albion Street	Brunswick	Albion St Main Drain	UNIT
		✓	208 Albion Street	Brunswick	Albion St Main Drain	
		✓	213 Albion Street	Brunswick	Albion St Main Drain	
		✓	215 Albion Street	Brunswick	Albion St Main Drain	
		✓	5 Alister Street	Fitzroy North	Glenlyon Rd Drain	
		✓	7 Alister Street	Fitzroy North	Glenlyon Rd Drain	
		✓	9 Alister Street	Fitzroy North	Glenlyon Rd Drain	
		✓	11 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	13 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	15 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	17 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	19 Alister Street	Fitzroy North	Glenlyon Rd Drain	
		✓	26 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	28 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	30 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	32 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	34 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	36 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	38 Alister Street	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	44 Anketell Street	Coburg	Melville Main Drain	
	✓	✓	45 Anketell Street	Coburg	Melville Main Drain	
✓	✓	✓	46 Anketell Street	Coburg	Melville Main Drain	
✓	✓	✓	47 Anketell Street	Coburg	Melville Main Drain	
		✓	1 Appleby Crescent	Brunswick West	Melville Main Drain	
		✓	3 Appleby Crescent	Brunswick West	Melville Main Drain	
		✓	5 Appleby Crescent	Brunswick West	Melville Main Drain	
	✓	✓	25 Ashmore Street	Brunswick	Local Drainage	
	✓	✓	27 Ashmore Street	Brunswick	Local Drainage	
	✓	✓	44 Ashmore Street	Brunswick	Local Drainage	
	✓	✓	44A Ashmore Street	Brunswick	Local Drainage	
		✓	26 Bakers Parade	Brunswick West	Local Drainage	
		✓	28 Bakers Parade	Brunswick West	Local Drainage	
		✓	30 Bakers Parade	Brunswick West	Local Drainage	
		✓	23 Ballarat Street	Brunswick	Local Drainage	
		✓	151 Barkly Street	Brunswick East	Lygon St Main Drain	
	✓	✓	105 Barrow Street	Coburg	Harding Street Main Drain	
	✓	✓	1/118 Barrow Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	2/118 Barrow Street	Coburg	Harding Street Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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 Barrow Street	Coburg	Harding Street Main Drain	
		✓	5/3 Barry Street	Brunswick	Royal Park Main Drain	UNIT
	✓	✓	7 Barry Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	1/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	2/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	3/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	4/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	5/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	6/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	7/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	8/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	9/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	10/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	11/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	12/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	13/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	14/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	15/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	16/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	17/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	18/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	19/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	20/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	21/8 Barry Street	Brunswick	Royal Park Main Drain	UNIT
		✓	9 Barry Street	Brunswick	Royal Park Main Drain	
		✓	11 Barry Street	Brunswick	Royal Park Main Drain	
		✓	13 Barry Street	Brunswick	Royal Park Main Drain	
	✓	✓	14 Barry Street	Brunswick	Royal Park Main Drain	
		✓	15 Barry Street	Brunswick	Royal Park Main Drain	
	✓	✓	22 Barry Street	Brunswick	Royal Park Main Drain	
		✓	24 Barry Street	Brunswick	Royal Park Main Drain	
		✓	41 Bell Street	Coburg	Harding Street Main Drain	
	✓	✓	135A Bell Street	Coburg	Local Drainage	
		✓	237A Bell Street	Coburg	Melville Main Drain	
	✓	✓	239 Bell Street	Coburg	Melville Main Drain	
	✓	✓	241 Bell Street	Coburg	Melville Main Drain	
		✓	243 Bell Street	Coburg	Melville Main Drain	
		✓	245 Bell Street	Coburg	Melville Main Drain	
		✓	247 Bell Street	Coburg	Melville Main Drain	
	✓	✓	282A Bell Street	Coburg	Melville Main Drain	
	✓	✓	284 Bell Street	Coburg	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	286 Bell Street	Coburg	Melville Main Drain	
	✓	✓	288 Bell Street	Coburg	Melville Main Drain	
		✓	290 Bell Street	Coburg	Melville Main Drain	
		✓	294 Bell Street	Coburg	Melville Main Drain	
	✓	✓	2/296 Bell Street	Coburg	Melville Main Drain	UNIT
		✓	308 Bell Street	Coburg	Melville Main Drain	
	✓	✓	6-8 Bellevue Street	Coburg	Melville Main Drain	
	✓	✓	10 Bellevue Street	Coburg	Melville Main Drain	
✓	✓	✓	12 Bellevue Street	Coburg	Melville Main Drain	
	✓	✓	14 Bellevue Street	Coburg	Melville Main Drain	
	✓	✓	16 Bellevue Street	Coburg	Melville Main Drain	
✓	✓	✓	53 Berry Street	Coburg	Melville Main Drain	
✓	✓	✓	55 Berry Street	Coburg	Melville Main Drain	
✓	✓	✓	57 Berry Street	Coburg	Melville Main Drain	
	✓	✓	72A Berry Street	Coburg	Melville Main Drain	
✓	✓	✓	74 Berry Street	Coburg	Melville Main Drain	
		✓	32 Bladen Avenue	Brunswick East	Local Drainage	
	✓	✓	2A Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	
	✓	✓	2D Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	
	✓	✓	2C Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	
	✓	✓	2B Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	
	✓	✓	4A Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	
	✓	✓	4 Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	
	✓	✓	1/6-8 Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	UNIT
		✓	3/6-8 Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	UNIT
	✓	✓	4/6-8 Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	UNIT
		✓	5/6-8 Brentwood Avenue	Pascoe Vale South	Coonans Rd Main Drain	UNIT
		✓	31 Brickworks Drive	Brunswick	Local Drainage	
		✓	33 Brickworks Drive	Brunswick	Local Drainage	
	✓	✓	35 Brickworks Drive	Brunswick	Local Drainage	
		✓	64 Brunswick Road	Brunswick	Lygon St Main Drain	
✓	✓	✓	6/350 Brunswick Road	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	356A Brunswick Road	Brunswick	Royal Park Main Drain	
✓	✓	✓	356 Brunswick Road	Brunswick	Royal Park Main Drain	
✓	✓	✓	358 Brunswick Road	Brunswick	Royal Park Main Drain	
		✓	10 Bryant Street	Brunswick	Local Drainage	
		✓	2 Budds Street	Coburg	Harding Street Main Drain	
✓	✓	✓	42 Burgundy Street	Pascoe Vale	Westbreen Creek	
		✓	25 Cadman Street	Brunswick West	Melville Main Drain	
	✓	✓	27 Cadman Street	Brunswick West	Melville Main Drain	
		✓	28 Cadman Street	Brunswick West	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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 Cadman Street	Brunswick West	Melville Main Drain	
	✓	✓	30 Cadman Street	Brunswick West	Melville Main Drain	
		✓	31 Cadman Street	Brunswick West	Melville Main Drain	
	✓	✓	32 Cadman Street	Brunswick West	Melville Main Drain	
		✓	1 Carrington Street	Pascoe Vale South	Local Drainage	
		✓	2A Carrington Street	Pascoe Vale South	Local Drainage	
		✓	2 Carrington Street	Pascoe Vale South	Local Drainage	
		✓	3 Carrington Street	Pascoe Vale South	Local Drainage	
		✓	4 Carrington Street	Pascoe Vale South	Local Drainage	
		✓	22 Carrington Street	Pascoe Vale South	Local Drainage	
		✓	24 Carrington Street	Pascoe Vale South	Local Drainage	
	✓	✓	1 Cliff Street	Brunswick	Local Drainage	
	✓	✓	2 Cliff Street	Brunswick	Local Drainage	
	✓	✓	4 Cliff Street	Brunswick	Local Drainage	
	✓	✓	6 Cliff Street	Brunswick	Local Drainage	
	✓	✓	8 Cliff Street	Brunswick	Local Drainage	
	✓	✓	10 Cliff Street	Brunswick	Local Drainage	
	✓	✓	12 Cliff Street	Brunswick	Local Drainage	
✓	✓	✓	1/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	2/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	3/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	4/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	5/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	6/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	7/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	8/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	9/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	10/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	11/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
✓	✓	✓	12/49-59 Coonans Road	Pascoe Vale South	Coonans Rd Main Drain	UNIT
		✓	5/3 Cooper Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	1 Coral Street	Brunswick West	Melville Main Drain	
	✓	✓	1/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	2/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	3/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	4/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	5/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	6/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	7/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	8/3-5 Coral Street	Brunswick West	Melville Main Drain	UNIT
		✓	33 Cornwall Street	Brunswick West	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	35 Cornwall Street	Brunswick West	Melville Main Drain	
		✓	37 Cornwall Street	Brunswick West	Melville Main Drain	
		✓	1/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	2/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	4/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	5/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	6/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	7/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	8/42 Cornwall Street	Brunswick West	Melville Main Drain	UNIT
		✓	42 Cornwall Street	Brunswick West	Melville Main Drain	
	✓	✓	44 Cornwall Street	Brunswick West	Melville Main Drain	
	✓	✓	48 Cornwall Street	Brunswick West	Melville Main Drain	
		✓	50 Cornwall Street	Brunswick West	Melville Main Drain	
	✓	✓	60 Cumberland Road	Pascoe Vale	Local Drainage	
		✓	66 Cumberland Road	Pascoe Vale	Local Drainage	
		✓	2 Dale Avenue	Pascoe Vale	Local Drainage	
		✓	29B Davison Street	Brunswick	Local Drainage	
✓	✓	✓	1 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	3 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	5 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	5A Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	7 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	9 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	11 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	13 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	15 Deakin Street	Coburg	Melville Main Drain	
✓	✓	✓	17 Deakin Street	Coburg	Melville Main Drain	
	✓	✓	4 Dudley Street	Fitzroy North	Local Drainage	
	✓	✓	6 Dudley Street	Fitzroy North	Local Drainage	
	✓	✓	8 Dudley Street	Fitzroy North	Local Drainage	
	✓	✓	10 Dudley Street	Fitzroy North	Local Drainage	
	✓	✓	12 Dudley Street	Fitzroy North	Local Drainage	
	✓	✓	14 Dudley Street	Fitzroy North	Local Drainage	
	✓	✓	16 Dudley Street	Fitzroy North	Local Drainage	
		✓	71 Evans Street	Brunswick	Local Drainage	
		✓	79 Evans Street	Brunswick	Local Drainage	
		✓	96 Evans Street	Brunswick	Local Drainage	
		✓	106 Evans Street	Brunswick	Local Drainage	
		✓	41 Everett Street	Brunswick West	Melville Main Drain	
		✓	1/42 Everett Street	Brunswick West	Melville Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	2/42 Everett Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/42 Everett Street	Brunswick West	Melville Main Drain	UNIT
		✓	4/42 Everett Street	Brunswick West	Melville Main Drain	UNIT
		✓	5/42 Everett Street	Brunswick West	Melville Main Drain	UNIT
		✓	6/42 Everett Street	Brunswick West	Melville Main Drain	UNIT
		✓	7/42 Everett Street	Brunswick West	Melville Main Drain	UNIT
		✓	8/42 Everett Street	Brunswick West	Melville Main Drain	UNIT
		✓	42 Everett Street	Brunswick West	Melville Main Drain	
		✓	43 Everett Street	Brunswick West	Melville Main Drain	
		✓	45 Everett Street	Brunswick West	Melville Main Drain	
		✓	47 Everett Street	Brunswick West	Melville Main Drain	
✓	✓	✓	49-55 Everett Street	Brunswick West	Melville Main Drain	
✓	✓	✓	1/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	2/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	3/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	4/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	5/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	6/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	7/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	8/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	9/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	10/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	11/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	12/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	13/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	14/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	15/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	16/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	17/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	18/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	19/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	20/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	21/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	22/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	23/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	24/50 Everett Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	54 Everett Street	Brunswick West	Melville Main Drain	
✓	✓	✓	56 Everett Street	Brunswick West	Melville Main Drain	
✓	✓	✓	58 Everett Street	Brunswick West	Melville Main Drain	
		✓	60 Everett Street	Brunswick West	Melville Main Drain	
		✓	253A Gaffney Street	Pascoe Vale	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	253 Gaffney Street	Pascoe Vale	Melville Main Drain	
		✓	255 Gaffney Street	Pascoe Vale	Melville Main Drain	
		✓	257 Gaffney Street	Pascoe Vale	Melville Main Drain	
	✓	✓	261 Gaffney Street	Pascoe Vale	Melville Main Drain	
	✓	✓	1/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	101/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	102/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	103/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	201/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	202/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	301/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	302/437 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	439 Gaffney Street	Pascoe Vale	Westbreen Creek	
	✓	✓	445-447 Gaffney Street	Pascoe Vale	Westbreen Creek	
	✓	✓	449 Gaffney Street	Pascoe Vale	Westbreen Creek	
	✓	✓	6/451 Gaffney Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	2 Gallipoli Parade	Pascoe Vale South	Local Drainage	
	✓	✓	4 Gallipoli Parade	Pascoe Vale South	Local Drainage	
	✓	✓	6 Gallipoli Parade	Pascoe Vale South	Local Drainage	
		✓	2 Gibson Avenue	Brunswick West	Local Drainage	
✓	✓	✓	12 Gilligan Court	Brunswick West	Melville Main Drain	
		✓	59 Glengyle Street	Coburg	Local Drainage	
		✓	1/216 Glenlyon Road	Brunswick East	Local Drainage	UNIT
		✓	1/218 Glenlyon Road	Brunswick East	Local Drainage	UNIT
✓	✓	✓	1 Grafton Street	Coburg	Melville Main Drain	
✓	✓	✓	2 Grafton Street	Coburg	Melville Main Drain	
✓	✓	✓	3 Grafton Street	Coburg	Melville Main Drain	
✓	✓	✓	4A Grafton Street	Coburg	Melville Main Drain	
✓	✓	✓	4 Grafton Street	Coburg	Melville Main Drain	
	✓	✓	1 Haig Avenue	Coburg	Melville Main Drain	
	✓	✓	1A Haig Avenue	Coburg	Melville Main Drain	
✓	✓	✓	3 Haig Avenue	Coburg	Melville Main Drain	
✓	✓	✓	5 Haig Avenue	Coburg	Melville Main Drain	
✓	✓	✓	7 Haig Avenue	Coburg	Melville Main Drain	
	✓	✓	9 Haig Avenue	Coburg	Melville Main Drain	
		✓	11 Haig Avenue	Coburg	Melville Main Drain	
		✓	13 Haig Avenue	Coburg	Melville Main Drain	
		✓	15 Haig Avenue	Coburg	Melville Main Drain	
		✓	19 Haig Avenue	Coburg	Melville Main Drain	
		✓	2/2 Hamilton Street	Brunswick West	Local Drainage	UNIT
		✓	23-25 Harding Street	Coburg	Harding Street Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	24 Harding Street	Coburg	Harding Street Main Drain	
	✓	✓	1/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	2/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	3/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	4/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	5/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	6/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	7/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	8/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	9/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	10/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	11/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	12/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	13/41-43 Harding Street	Coburg	Harding Street Main Drain	UNIT
	✓	✓	41-43 Harding Street	Coburg	Harding Street Main Drain	
		✓	8 Hayes Parade	Pascoe Vale	Local Drainage	
		✓	8B Hayes Parade	Pascoe Vale	Local Drainage	
		✓	8A Hayes Parade	Pascoe Vale	Local Drainage	
		✓	10 Hayes Parade	Pascoe Vale	Local Drainage	
✓	✓	✓	25 Heller Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	27 Heller Street	Brunswick	Royal Park Main Drain	
	✓	✓	1/28 Heller Street	Brunswick	Royal Park Main Drain	UNIT
	✓	✓	2/28 Heller Street	Brunswick	Royal Park Main Drain	UNIT
	✓	✓	3/28 Heller Street	Brunswick	Royal Park Main Drain	UNIT
	✓	✓	4/28 Heller Street	Brunswick	Royal Park Main Drain	UNIT
	✓	✓	28 Heller Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	29 Heller Street	Brunswick	Royal Park Main Drain	
	✓	✓	31 Heller Street	Brunswick	Royal Park Main Drain	
	✓	✓	32 Henkel Street	Brunswick	Local Drainage	
		✓	65 Hope Street	Brunswick	Hope St Main Drain	
	✓	✓	71 Hope Street	Brunswick	Hope St Main Drain	
		✓	72-74 Hope Street	Brunswick	Hope St Main Drain	
	✓	✓	73 Hope Street	Brunswick	Hope St Main Drain	
	✓	✓	1/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	2/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	3/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	4/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	5/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	6/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	7/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	8/80 Hope Street	Brunswick	Hope St Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	9/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	10/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	11/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	12/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	13/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	14/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
	✓	✓	15/80 Hope Street	Brunswick	Hope St Main Drain	UNIT
		✓	81A Hope Street	Brunswick	Hope St Main Drain	
	✓	✓	88-90 Hope Street	Brunswick	Hope St Main Drain	
	✓	✓	3/4 Hudson Street	Coburg	Local Drainage	UNIT
	✓	✓	4/6 Hudson Street	Coburg	Local Drainage	UNIT
	✓	✓	5/6 Hudson Street	Coburg	Local Drainage	UNIT
	✓	✓	6/6 Hudson Street	Coburg	Local Drainage	UNIT
		✓	1/12-14 Hudson Street	Coburg	Local Drainage	UNIT
		✓	2/12-14 Hudson Street	Coburg	Local Drainage	UNIT
		✓	3/12-14 Hudson Street	Coburg	Local Drainage	UNIT
		✓	4/12-14 Hudson Street	Coburg	Local Drainage	UNIT
		✓	5/12-14 Hudson Street	Coburg	Local Drainage	UNIT
		✓	6/12-14 Hudson Street	Coburg	Local Drainage	UNIT
		✓	12-14 Hudson Street	Coburg	Local Drainage	
		✓	3/18 Hudson Street	Coburg	Local Drainage	UNIT
		✓	3/20 Hudson Street	Coburg	Local Drainage	UNIT
	✓	✓	8 Irvine Street	Pascoe Vale	Local Drainage	
	✓	✓	8A Irvine Street	Pascoe Vale	Local Drainage	
✓	✓	✓	5 Jhonson Street	Pascoe Vale South	Local Drainage	
		✓	2/4 Jolley Street	Brunswick West	Hope St Main Drain	UNIT
		✓	3/4 Jolley Street	Brunswick West	Hope St Main Drain	UNIT
		✓	2/6 Jolley Street	Brunswick West	Hope St Main Drain	UNIT
	✓	✓	3/6 Jolley Street	Brunswick West	Hope St Main Drain	UNIT
		✓	14A Jolley Street	Brunswick West	Melville Main Drain	
		✓	1/16 Jolley Street	Brunswick West	Melville Main Drain	UNIT
		✓	2/16 Jolley Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/16 Jolley Street	Brunswick West	Melville Main Drain	UNIT
		✓	4/16 Jolley Street	Brunswick West	Melville Main Drain	UNIT
		✓	5/16 Jolley Street	Brunswick West	Melville Main Drain	UNIT
		✓	6/16 Jolley Street	Brunswick West	Melville Main Drain	UNIT
		✓	16 Jolley Street	Brunswick West	Melville Main Drain	
	✓	✓	17 Jolley Street	Brunswick West	Melville Main Drain	
		✓	4A Jordan Street	Brunswick West	Local Drainage	
	✓	✓	1/5 Jordan Street	Brunswick West	Local Drainage	UNIT
	✓	✓	2/5 Jordan Street	Brunswick West	Local Drainage	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	3/5 Jordan Street	Brunswick West	Local Drainage	UNIT
	✓	✓	5 Jordan Street	Brunswick West	Local Drainage	
	✓	✓	6 Jordan Street	Brunswick West	Local Drainage	
	✓	✓	2 Kelson Street	Coburg	Melville Main Drain	
	✓	✓	2A Kelson Street	Coburg	Melville Main Drain	
	✓	✓	2B Kelson Street	Coburg	Melville Main Drain	
	✓	✓	4 Kelson Street	Coburg	Melville Main Drain	
		✓	6 Kelson Street	Coburg	Melville Main Drain	
✓	✓	✓	7-11 Kelson Street	Coburg	Melville Main Drain	
	✓	✓	13 Kelson Street	Coburg	Melville Main Drain	
	✓	✓	27 King Street	Fitzroy North	Local Drainage	
	✓	✓	29 King Street	Fitzroy North	Local Drainage	
	✓	✓	31 King Street	Fitzroy North	Local Drainage	
	✓	✓	33 King Street	Fitzroy North	Local Drainage	
	✓	✓	35 King Street	Fitzroy North	Local Drainage	
		✓	37 King Street	Fitzroy North	Local Drainage	
		✓	85 Linda Street	Coburg	Melville Main Drain	
✓	✓	✓	87 Linda Street	Coburg	Melville Main Drain	
	✓	✓	89 Linda Street	Coburg	Melville Main Drain	
		✓	26-38 Linsey Street	Coburg	Local Drainage	
✓	✓	✓	1/40 Linsey Street	Coburg	Melville Main Drain	UNIT
	✓	✓	2/40 Linsey Street	Coburg	Melville Main Drain	UNIT
	✓	✓	3/40 Linsey Street	Coburg	Melville Main Drain	UNIT
		✓	41 Linsey Street	Coburg	Melville Main Drain	
		✓	43 Linsey Street	Coburg	Melville Main Drain	
✓	✓	✓	44 Linsey Street	Coburg	Melville Main Drain	
		✓	45 Linsey Street	Coburg	Melville Main Drain	
✓	✓	✓	46 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	47 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	48 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	49 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	50 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	51 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	52 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	53 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	55 Linsey Street	Coburg	Melville Main Drain	
	✓	✓	57 Linsey Street	Coburg	Melville Main Drain	
		✓	33 Lobb Street	Brunswick	Local Drainage	
		✓	35 Lobb Street	Brunswick	Local Drainage	
		✓	37 Lobb Street	Brunswick	Local Drainage	
	✓	✓	39 Lobb Street	Brunswick	Local Drainage	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	6/20 Loch Street	Coburg	Local Drainage	UNIT
		✓	3/42 Loch Street	Coburg	Local Drainage	UNIT
		✓	51A Loch Street	Coburg	Local Drainage	
		✓	51 Loch Street	Coburg	Local Drainage	
		✓	2/15 Luscombe Street	Brunswick	Local Drainage	UNIT
		✓	63 Lygon Street	Brunswick East	Lygon St Main Drain	
		✓	65 Lygon Street	Brunswick East	Lygon St Main Drain	
		✓	67 Lygon Street	Brunswick East	Lygon St Main Drain	
		✓	69 Lygon Street	Brunswick East	Lygon St Main Drain	
		✓	71 Lygon Street	Brunswick East	Lygon St Main Drain	
		✓	73 Lygon Street	Brunswick East	Lygon St Main Drain	
	✓	✓	1/483 Lygon Street	Brunswick East	Local Drainage	UNIT
	✓	✓	483 Lygon Street	Brunswick East	Local Drainage	
	✓	✓	483A Lygon Street	Brunswick East	Local Drainage	
	✓	✓	495-497 Lygon Street	Brunswick East	Local Drainage	
		✓	1 Lyle Street	Brunswick	Local Drainage	
		✓	14 Lyle Street	Brunswick	Local Drainage	
	✓	✓	16 Lyle Street	Brunswick	Local Drainage	
		✓	23 Maranoa Crescent	Coburg	Melville Main Drain	
	✓	✓	1/55 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	2/55 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	3/55 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	4/55 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	5/55 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	6/55 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	7/55 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	1/57 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	2/57 May Street	Fitzroy North	Glenlyon Rd Drain	UNIT
	✓	✓	2/7 McGregor Avenue	Brunswick West	Melville Main Drain	UNIT
	✓	✓	3/7 McGregor Avenue	Brunswick West	Melville Main Drain	UNIT
		✓	29 McGregor Avenue	Brunswick West	Melville Main Drain	
		✓	5 Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	7 Mclean Street	Brunswick West	Melville Main Drain	
		✓	1/12 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	13 Mclean Street	Brunswick West	Melville Main Drain	
		✓	1/14 Mclean Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	15 Mclean Street	Brunswick West	Melville Main Drain	
✓	✓	✓	17 Mclean Street	Brunswick West	Melville Main Drain	
		✓	1/18-20 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	10/18-20 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	1/19 Mclean Street	Brunswick West	Melville Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	2/19 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	3/19 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	4/19 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	21 Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	21A Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	21D Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	21C Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	21B Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	1/22 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	1/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	2/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	4/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	5/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	6/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	7/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	8/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	9/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	10/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	11/23-25 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	1/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	2/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	3/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	4/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	5/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	6/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	7/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	8/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	9/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	10/24 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	24 Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	1/26 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	2/26 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/26 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	4/26 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	5/26 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	6/26 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	26 Mclean Street	Brunswick West	Melville Main Drain	
		✓	1/28 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	2/28 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/28 Mclean Street	Brunswick West	Melville Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	4/28 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	5/28 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	6/28 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	28 Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	5/30A Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	6/30 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	31 Mclean Street	Brunswick West	Melville Main Drain	
		✓	1/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	2/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	4/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	5/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	6/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	7/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	8/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	9/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	10/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	11/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	12/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	13/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	14/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	15/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	16/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	17/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	18/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	19/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	20/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	21/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	22/33 Mclean Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	33 Mclean Street	Brunswick West	Melville Main Drain	
✓	✓	✓	35-37 Mclean Street	Brunswick West	Melville Main Drain	
✓	✓	✓	1/39 Mclean Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	2/39 Mclean Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	3/39 Mclean Street	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	4/39 Mclean Street	Brunswick West	Melville Main Drain	UNIT
		✓	41 Mclean Street	Brunswick West	Melville Main Drain	
		✓	43 Mclean Street	Brunswick West	Melville Main Drain	
	✓	✓	1/180A Melville Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	2/180A Melville Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	3/180A Melville Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	4/180A Melville Road	Brunswick West	Melville Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	180E Melville Road	Brunswick West	Melville Main Drain	
	✓	✓	180 Melville Road	Brunswick West	Melville Main Drain	
		✓	182 Melville Road	Brunswick West	Melville Main Drain	
		✓	1/189 Melville Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	197 Melville Road	Brunswick West	Melville Main Drain	
		✓	199 Melville Road	Brunswick West	Melville Main Drain	
	✓	✓	101/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	102/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	103/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	104/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	105/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	106/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	107/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	108/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	109/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	110/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	201/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	202/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	203/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	204/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	205/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	206/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	208/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	209/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	210/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	301/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	302/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	303/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	304/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	305/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	306/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	307/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	308/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	309/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	310/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	401/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	402/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	403/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	404/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	405/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	406/1C Michael Street	Brunswick	Local Drainage	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	407/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	408/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	409/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	410/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	501/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	502/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	503/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	504/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	505/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	506/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	507/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	508/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	601/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	602/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	603/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	604/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	605/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	606/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	607/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	608/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	701/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	702/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	703/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	704/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	705/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	706/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	707/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	708/1C Michael Street	Brunswick	Local Drainage	UNIT
	✓	✓	1B Michael Street	Brunswick	Local Drainage	
	✓	✓	1A Michael Street	Brunswick	Local Drainage	
	✓	✓	1D Michael Street	Brunswick	Local Drainage	
		✓	1 Michael Street	Brunswick	Local Drainage	
		✓	1/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	2/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	3/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	101/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	102/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	103/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	104/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	105/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	106/2A Michael Street	Brunswick	Local Drainage	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	107/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	108/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	109/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	110/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	111/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	112/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	113/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	114/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	115/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	201/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	202/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	203/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	204/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	205/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	206/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	207/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	208/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	209/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	210/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	211/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	212/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	213/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	214/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	215/2A Michael Street	Brunswick	Local Drainage	UNIT
		✓	2 Michael Street	Brunswick	Local Drainage	
		✓	1 Millward Street	Brunswick	Royal Park Main Drain	
		✓	3 Millward Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	26 Millward Street	Brunswick	Royal Park Main Drain	
	✓	✓	1/28 Millward Street	Brunswick	Royal Park Main Drain	UNIT
	✓	✓	2/28 Millward Street	Brunswick	Royal Park Main Drain	UNIT
	✓	✓	3/28 Millward Street	Brunswick	Royal Park Main Drain	UNIT
✓	✓	✓	30 Millward Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	32 Millward Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	34 Millward Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	36 Millward Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	38 Millward Street	Brunswick	Royal Park Main Drain	
	✓	✓	308 Moreland Road	Brunswick West	Melville Main Drain	
		✓	1/325C Moreland Road	Coburg	Melville Main Drain	UNIT
	✓	✓	325B Moreland Road	Coburg	Melville Main Drain	
	✓	✓	325A Moreland Road	Coburg	Melville Main Drain	
		✓	325C Moreland Road	Coburg	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	325 Moreland Road	Coburg	Melville Main Drain	
✓	✓	✓	1/327 Moreland Road	Coburg	Melville Main Drain	UNIT
✓	✓	✓	2/327 Moreland Road	Coburg	Melville Main Drain	UNIT
✓	✓	✓	3/327 Moreland Road	Coburg	Melville Main Drain	UNIT
	✓	✓	327A Moreland Road	Coburg	Melville Main Drain	
✓	✓	✓	327 Moreland Road	Coburg	Melville Main Drain	
	✓	✓	329 Moreland Road	Coburg	Melville Main Drain	
	✓	✓	331 Moreland Road	Coburg	Melville Main Drain	
	✓	✓	333 Moreland Road	Coburg	Melville Main Drain	
		✓	415 Moreland Road	Pascoe Vale South	Local Drainage	
		✓	417 Moreland Road	Pascoe Vale South	Local Drainage	
		✓	419 Moreland Road	Pascoe Vale South	Local Drainage	
		✓	421 Moreland Road	Pascoe Vale South	Local Drainage	
		✓	423 Moreland Road	Pascoe Vale South	Local Drainage	
		✓	448 Moreland Road	Brunswick West	Local Drainage	
	✓	✓	1/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	2/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	3/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	4/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	5/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	6/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	7/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	8/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	9/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	10/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	11/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	12/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	13/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	14/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	15/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	16/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	17/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	18/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	19/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	20/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	21/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	22/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	23/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	24/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	25/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	26/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	27/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	28/508-510 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	508-510 Moreland Road	Brunswick West	Local Drainage	
		✓	8/512-514 Moreland Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	9/512-514 Moreland Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	10/512-514 Moreland Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	11/512-514 Moreland Road	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	12/512-514 Moreland Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	1/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	2/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	3/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	4/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	5/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	6/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	7/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	8/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	9/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	10/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	11/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	12/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	13/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	14/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	15/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	16/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	17/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	18/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	19/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	20/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	21/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	22/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	23/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	24/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	25/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	26/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	27/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	28/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	29/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	30/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	31/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	32/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	33/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	34/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	35/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	36/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	37/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	38/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	39/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	40/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	41/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	42/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	43/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	44/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	45/516-518 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	516-518 Moreland Road	Brunswick West	Local Drainage	
		✓	8/520 Moreland Road	Brunswick West	Melville Main Drain	UNIT
		✓	9/520 Moreland Road	Brunswick West	Melville Main Drain	UNIT
		✓	10/520 Moreland Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	11/520 Moreland Road	Brunswick West	Melville Main Drain	UNIT
	✓	✓	12/520 Moreland Road	Brunswick West	Melville Main Drain	UNIT
✓	✓	✓	1/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	2/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	3/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	4/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	5/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	6/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	7/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	8/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	9/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	10/608 Moreland Road	Brunswick West	Local Drainage	UNIT
✓	✓	✓	608 Moreland Road	Brunswick West	Local Drainage	
✓	✓	✓	4/616 Moreland Road	Brunswick West	Local Drainage	UNIT
	✓	✓	6 Moule Street	Brunswick West	Local Drainage	
	✓	✓	1/44 Munro Street	Coburg	Local Drainage	UNIT
	✓	✓	2/44 Munro Street	Coburg	Local Drainage	UNIT
	✓	✓	3/44 Munro Street	Coburg	Local Drainage	UNIT
	✓	✓	4/44 Munro Street	Coburg	Local Drainage	UNIT
	✓	✓	5/44 Munro Street	Coburg	Local Drainage	UNIT
	✓	✓	6/44 Munro Street	Coburg	Local Drainage	UNIT
	✓	✓	7/44 Munro Street	Coburg	Local Drainage	UNIT
	✓	✓	8/44 Munro Street	Coburg	Local Drainage	UNIT
		✓	106 Munro Street	Coburg	Melville Main Drain	
	✓	✓	108 Munro Street	Coburg	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
	✓	✓	110 Munro Street	Coburg	Melville Main Drain	
	✓	✓	112 Munro Street	Coburg	Melville Main Drain	
		✓	115 Munro Street	Coburg	Melville Main Drain	
		✓	117 Munro Street	Coburg	Melville Main Drain	
	✓	✓	118A Munro Street	Coburg	Melville Main Drain	
✓	✓	✓	119 Munro Street	Coburg	Melville Main Drain	
✓	✓	✓	121 Munro Street	Coburg	Melville Main Drain	
✓	✓	✓	123 Munro Street	Coburg	Melville Main Drain	
		✓	131 Munro Street	Coburg	Melville Main Drain	
		✓	77 Murray Street	Coburg	Melville Main Drain	
	✓	✓	77A Murray Street	Coburg	Melville Main Drain	
		✓	3 Nelson Street	Coburg	Local Drainage	
		✓	5 Nelson Street	Coburg	Local Drainage	
		✓	13 Orient Grove	Brunswick	Local Drainage	
		✓	1/1 Park Street	Coburg	Harding Street Main Drain	UNIT
		✓	1 Park Street	Coburg	Harding Street Main Drain	
	✓	✓	2 Park Street	Coburg	Harding Street Main Drain	
✓	✓	✓	969 Park Street	Brunswick West	Local Drainage	
✓	✓	✓	971 Park Street	Brunswick West	Local Drainage	
	✓	✓	1/3 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	2/3 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	3/3 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
	✓	✓	4/3 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	5/3 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	6/3 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	5 Parker Street	Pascoe Vale	Westbreen Creek	
✓	✓	✓	6 Parker Street	Pascoe Vale	Westbreen Creek	
✓	✓	✓	6A Parker Street	Pascoe Vale	Westbreen Creek	
✓	✓	✓	8 Parker Street	Pascoe Vale	Westbreen Creek	
	✓	✓	10 Parker Street	Pascoe Vale	Westbreen Creek	
	✓	✓	3/12 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	4/14 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	5/14 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	6/14 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	7/14 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
✓	✓	✓	4/18 Parker Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	2/23 Parkstone Avenue	Pascoe Vale South	Coonans Rd Main Drain	UNIT
		✓	109A Pearson Street	Brunswick West	Hope St Main Drain	
		✓	5 Percy Street	Brunswick	Local Drainage	
		✓	7 Percy Street	Brunswick	Local Drainage	
	✓	✓	9 Percy Street	Brunswick	Local Drainage	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	11 Percy Street	Brunswick	Local Drainage	
		✓	13 Percy Street	Brunswick	Local Drainage	
		✓	15 Percy Street	Brunswick	Local Drainage	
		✓	17 Percy Street	Brunswick	Local Drainage	
		✓	19 Percy Street	Brunswick	Local Drainage	
		✓	21 Percy Street	Brunswick	Local Drainage	
		✓	23 Percy Street	Brunswick	Local Drainage	
		✓	25 Percy Street	Brunswick	Local Drainage	
		✓	27 Percy Street	Brunswick	Local Drainage	
		✓	29 Percy Street	Brunswick	Local Drainage	
		✓	31 Percy Street	Brunswick	Local Drainage	
		✓	33 Percy Street	Brunswick	Local Drainage	
		✓	35 Percy Street	Brunswick	Local Drainage	
		✓	37 Percy Street	Brunswick	Local Drainage	
		✓	1/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	2/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	101/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	102/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	103/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	104/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	105/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	106/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	107/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	108/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	201/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	202/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	203/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	204/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	205/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	206/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	207/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	208/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	301/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	302/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	303/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	304/40-52 Percy Street	Brunswick	Local Drainage	UNIT
		✓	1/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	2/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	3/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	4/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	5/54-84 Percy Street	Brunswick	Local Drainage	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	101/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	102/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	103/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	104/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	105/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	106/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	107/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	108/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	109/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	110/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	201/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	202/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	203/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	204/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	205/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	206/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	207/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	208/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	209/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	210/54-84 Percy Street	Brunswick	Local Drainage	UNIT
		✓	15A Perrett Street	Brunswick West	Melville Main Drain	
	✓	✓	11 Pleasance Street	Fitzroy North	Local Drainage	
✓	✓	✓	130 Reynard Street	Coburg	Melville Main Drain	
✓	✓	✓	132 Reynard Street	Coburg	Melville Main Drain	
	✓	✓	49 Richards Street	Coburg	Harding Street Main Drain	
	✓	✓	54 Richards Street	Coburg	Harding Street Main Drain	
	✓	✓	54A Richards Street	Coburg	Harding Street Main Drain	
		✓	27 Salisbury Street	Coburg	Harding Street Main Drain	
		✓	35 Salisbury Street	Coburg	Harding Street Main Drain	
		✓	37 Salisbury Street	Coburg	Harding Street Main Drain	
		✓	38 Salisbury Street	Coburg	Harding Street Main Drain	
		✓	39 Salisbury Street	Coburg	Harding Street Main Drain	
	✓	✓	40 Salisbury Street	Coburg	Harding Street Main Drain	
	✓	✓	42 Salisbury Street	Coburg	Harding Street Main Drain	
		✓	44 Salisbury Street	Coburg	Harding Street Main Drain	
		✓	2 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	90 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	92 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	94 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	96 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	98 Shaftsbury Street	Coburg	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
✓	✓	✓	100 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	102 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	104 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	106 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	108 Shaftsbury Street	Coburg	Melville Main Drain	
		✓	110A Shaftsbury Street	Coburg	Melville Main Drain	
	✓	✓	110 Shaftsbury Street	Coburg	Melville Main Drain	
	✓	✓	132 Shaftsbury Street	Coburg	Melville Main Drain	
✓	✓	✓	134 Shaftsbury Street	Coburg	Melville Main Drain	
		✓	63 Shamrock Street	Brunswick West	Melville Main Drain	
		✓	65 Shamrock Street	Brunswick West	Melville Main Drain	
		✓	2/69 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	3/69 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
		✓	71 Shamrock Street	Brunswick West	Melville Main Drain	
	✓	✓	5/75 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
	✓	✓	6/75 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
		✓	77 Shamrock Street	Brunswick West	Melville Main Drain	
		✓	1/83 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
		✓	2/83 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
		✓	3/83 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
		✓	4/83 Shamrock Street	Brunswick West	Melville Main Drain	UNIT
		✓	83 Shamrock Street	Brunswick West	Melville Main Drain	
		✓	85 Shamrock Street	Brunswick West	Melville Main Drain	
		✓	107 Shamrock Street	Brunswick West	Melville Main Drain	
		✓	109 Shamrock Street	Brunswick West	Melville Main Drain	
		✓	5 Shedden Street	Pascoe Vale	Melville Main Drain	
	✓	✓	7 Shedden Street	Pascoe Vale	Melville Main Drain	
	✓	✓	9 Shedden Street	Pascoe Vale	Melville Main Drain	
	✓	✓	11 Shedden Street	Pascoe Vale	Melville Main Drain	
	✓	✓	13 Shedden Street	Pascoe Vale	Melville Main Drain	
	✓	✓	15 Shedden Street	Pascoe Vale	Melville Main Drain	
	✓	✓	47 Sheffield Street	Coburg	Harding Street Main Drain	
	✓	✓	1 Somerset Street	Pascoe Vale	Westbreen Creek	
✓	✓	✓	2 Somerset Street	Pascoe Vale	Westbreen Creek	
✓	✓	✓	3/4 Somerset Street	Pascoe Vale	Westbreen Creek	UNIT
		✓	29 Soudan Street	Coburg	Melville Main Drain	
	✓	✓	33 Soudan Street	Coburg	Melville Main Drain	
	✓	✓	35 Soudan Street	Coburg	Melville Main Drain	
		✓	37 Soudan Street	Coburg	Melville Main Drain	
		✓	39 Soudan Street	Coburg	Melville Main Drain	
		✓	41 Soudan Street	Coburg	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	43 Soudan Street	Coburg	Melville Main Drain	
		✓	45 Soudan Street	Coburg	Melville Main Drain	
		✓	47 Soudan Street	Coburg	Melville Main Drain	
	✓	✓	49 Soudan Street	Coburg	Melville Main Drain	
		✓	51 Soudan Street	Coburg	Melville Main Drain	
	✓	✓	54 Soudan Street	Coburg	Melville Main Drain	
		✓	56 Soudan Street	Coburg	Melville Main Drain	
	✓	✓	5A South Daly Street	Brunswick West	Local Drainage	
		✓	24 Stanley Street	Brunswick	Local Drainage	
	✓	✓	26 Stanley Street	Brunswick	Local Drainage	
	✓	✓	27A Stanley Street	Brunswick	Local Drainage	
	✓	✓	27 Stanley Street	Brunswick	Local Drainage	
	✓	✓	155 Stewart Street	Brunswick East	Local Drainage	
	✓	✓	157 Stewart Street	Brunswick East	Local Drainage	
		✓	42A Sussex Street	Pascoe Vale South	Melville Main Drain	
	✓	✓	44A Sussex Street	Pascoe Vale South	Melville Main Drain	
	✓	✓	44 Sussex Street	Pascoe Vale South	Melville Main Drain	
		✓	46 Sussex Street	Pascoe Vale South	Melville Main Drain	
	✓	✓	175 Sydney Road	Brunswick	Local Drainage	
	✓	✓	177-179 Sydney Road	Brunswick	Local Drainage	
		✓	101/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	102/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	103/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	104/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	105/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	106/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	107/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	108/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	109/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	110/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	111/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	112/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	113/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	114/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	115/756 Sydney Road	Brunswick	Local Drainage	UNIT
		✓	760A Sydney Road	Brunswick	Local Drainage	
		✓	14 Talbot Street	Brunswick	Local Drainage	
		✓	117A The Avenue	Coburg	The Avenue Main Drain	
		✓	117B The Avenue	Coburg	The Avenue Main Drain	
		✓	4/52 The Grove	Coburg	The Avenue Main Drain	UNIT
		✓	5/52 The Grove	Coburg	The Avenue Main Drain	UNIT

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek

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				
		✓	23 Trenoweth Street	Brunswick West	Melville Main Drain	
	✓	✓	25 Trenoweth Street	Brunswick West	Melville Main Drain	
	✓	✓	26 Trenoweth Street	Brunswick West	Melville Main Drain	
	✓	✓	27 Trenoweth Street	Brunswick West	Melville Main Drain	
	✓	✓	28 Trenoweth Street	Brunswick West	Melville Main Drain	
	✓	✓	30 Trenoweth Street	Brunswick West	Melville Main Drain	
		✓	1/139 Union Street	Brunswick	Royal Park Main Drain	UNIT
		✓	2/139 Union Street	Brunswick	Royal Park Main Drain	UNIT
		✓	3/139 Union Street	Brunswick	Royal Park Main Drain	UNIT
		✓	4/139 Union Street	Brunswick	Royal Park Main Drain	UNIT
		✓	5/139 Union Street	Brunswick	Royal Park Main Drain	UNIT
		✓	6/139 Union Street	Brunswick	Royal Park Main Drain	UNIT
		✓	139 Union Street	Brunswick	Royal Park Main Drain	
		✓	141 Union Street	Brunswick	Royal Park Main Drain	
✓	✓	✓	189 Urquhart Street	Coburg	Local Drainage	
	✓	✓	46 Victoria Grove	Brunswick	Local Drainage	
	✓	✓	48 Victoria Grove	Brunswick	Local Drainage	
		✓	101 Victoria Street	Coburg	Melville Main Drain	
	✓	✓	223 Victoria Street	Brunswick	Local Drainage	
	✓	✓	225 Victoria Street	Brunswick	Local Drainage	
	✓	✓	227 Victoria Street	Brunswick	Local Drainage	
	✓	✓	229 Victoria Street	Brunswick	Local Drainage	
	✓	✓	231 Victoria Street	Brunswick	Local Drainage	
	✓	✓	233 Victoria Street	Brunswick	Local Drainage	
		✓	250 Victoria Street	Brunswick	Local Drainage	
	✓	✓	252-254 Victoria Street	Brunswick	Local Drainage	
	✓	✓	256-260 Victoria Street	Brunswick	Local Drainage	
	✓	✓	262 Victoria Street	Brunswick	Local Drainage	
		✓	321-323 Victoria Street	Brunswick	Local Drainage	
		✓	331 Victoria Street	Brunswick	Local Drainage	
		✓	337 Victoria Street	Brunswick	Local Drainage	
		✓	380-382 Victoria Street	Brunswick	Local Drainage	
	✓	✓	1 Vincent Street	Coburg	Melville Main Drain	
	✓	✓	18A Wales Street	Brunswick West	Melville Main Drain	
✓	✓	✓	20 Wales Street	Brunswick West	Melville Main Drain	
✓	✓	✓	47 Wales Street	Brunswick West	Melville Main Drain	
	✓	✓	49 Wales Street	Brunswick West	Melville Main Drain	
	✓	✓	7 Waratah Street	Pascoe Vale	Melville Main Drain	
✓	✓	✓	13 Wattle Grove	Coburg	Melville Main Drain	
		✓	15 Wattle Grove	Coburg	Melville Main Drain	
		✓	26 Wattle Grove	Coburg	Melville Main Drain	

Properties at risk from flash flooding (over 30cm depth in yard close to the primary building location) in Southern Merri-bek						
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				
✓	✓	✓	28 Wattle Grove	Coburg	Melville Main Drain	
		✓	1/2 West Street	Brunswick	Local Drainage	UNIT
		✓	2/2 West Street	Brunswick	Local Drainage	UNIT
		✓	3/2 West Street	Brunswick	Local Drainage	UNIT
		✓	4/2 West Street	Brunswick	Local Drainage	UNIT
		✓	5/2 West Street	Brunswick	Local Drainage	UNIT
		✓	6/2 West Street	Brunswick	Local Drainage	UNIT
		✓	7/2 West Street	Brunswick	Local Drainage	UNIT
		✓	8/2 West Street	Brunswick	Local Drainage	UNIT
		✓	9/2 West Street	Brunswick	Local Drainage	UNIT
		✓	10/2 West Street	Brunswick	Local Drainage	UNIT
		✓	11/2 West Street	Brunswick	Local Drainage	UNIT
		✓	12/2 West Street	Brunswick	Local Drainage	UNIT
		✓	13/2 West Street	Brunswick	Local Drainage	UNIT
		✓	14/2 West Street	Brunswick	Local Drainage	UNIT
		✓	15/2 West Street	Brunswick	Local Drainage	UNIT
		✓	16/2 West Street	Brunswick	Local Drainage	UNIT
		✓	17/2 West Street	Brunswick	Local Drainage	UNIT
		✓	18/2 West Street	Brunswick	Local Drainage	UNIT
		✓	19/2 West Street	Brunswick	Local Drainage	UNIT
		✓	29 White Street	Fitzroy North	Local Drainage	
	✓	✓	31 White Street	Fitzroy North	Local Drainage	
	✓	✓	33 White Street	Fitzroy North	Local Drainage	
✓	✓	✓	35 White Street	Fitzroy North	Local Drainage	
✓	✓	✓	37 White Street	Fitzroy North	Local Drainage	
✓	✓	✓	39 White Street	Fitzroy North	Local Drainage	
		✓	17 Willow Grove	Coburg	Melville Main Drain	
		✓	28 Willowbank Road	Fitzroy North	Glenlyon Rd Drain	
		✓	30 Willowbank Road	Fitzroy North	Glenlyon Rd Drain	
		✓	30A Willowbank Road	Fitzroy North	Glenlyon Rd Drain	
		✓	32 Willowbank Road	Fitzroy North	Glenlyon Rd Drain	
	✓	✓	33 Willowbank Road	Fitzroy North	Glenlyon Rd Drain	
Totals						
170	652	1035				

Table C4.3 – Properties at risk of flash flooding (over 30cm depth in yard close to the primary building location) in Pascoe Vale South, Coburg, Brunswick, Brunswick West and Brunswick East in the City of Merri-bek

Isolation

No major isolation risks exist for areas around Coburg, Pascoe Vale South, Brunswick West, Brunswick East & Brunswick during a 1% AEP (100yr ARI) event. Some localised short-duration isolation may occur due to flash flooding.

Essential infrastructure

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 Merri-bek is available via the website at: https://static.ptv.vic.gov.au/siteassets/Maps/Localities/PDFs/37_Merri-bek_LAM.pdf

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

Road closures

The following roads in Coburg, Pascoe Vale South, Brunswick West, Brunswick East & Brunswick are subject to flooding over 30cm depth (minimum 50m length of impact) and may require closure or signage whilst flooded. Check the VicRoads website for more details: <https://traffic.vicroads.vic.gov.au/>

Roads at risk of flash flooding over 30cm depth (minimum 50m length) in Northern Merri-bek						
Street at Risk in AEP Event			Road	Suburb	Owner	Flood Risk Type
20% AEP	5% AEP	1% AEP				
✓	✓	✓	Albert Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Albion Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Alister Street	Fitzroy North	Merri-bek City Council	Flash
		✓	Audley Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Barry Street	Brunswick	Merri-bek City Council	Flash
		✓	Bell Street	Coburg	Department of Transport and Planning	Flash
	✓	✓	Bellevue Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Berry Street	Coburg	Merri-bek City Council	Flash
		✓	Brickworks Drive	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Burgundy Street	Pascoe Vale	Merri-bek City Council	Flash
	✓	✓	Cadman Street	Brunswick West	Merri-bek City Council	Flash
		✓	Carrington Street	Pascoe Vale South	Merri-bek City Council	Flash
	✓	✓	Cliff Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Collier Crescent	Brunswick	Merri-bek City Council	Flash
	✓	✓	Cornwall Street	Brunswick West	Merri-bek City Council	Flash
	✓	✓	Cramer Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Dale Avenue	Pascoe Vale	Merri-bek City Council	Flash
		✓	Donald Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Evans Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Everett Street	Brunswick West	Merri-bek City Council	Flash
		✓	Fallon Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Gaffney Street	Pascoe Vale	Department of Transport and Planning	Flash
	✓	✓	Glenlyon Road	Brunswick East	Merri-bek City Council	Flash
✓	✓	✓	Grafton Street	Coburg	Merri-bek City Council	Flash
		✓	Greenwood Street	Pascoe Vale South	Merri-bek City Council	Flash
✓	✓	✓	Haig Avenue	Coburg	Merri-bek City Council	Flash
	✓	✓	Hatter Street	Pascoe Vale South	Merri-bek City Council	Flash
		✓	Hayes Parade	Pascoe Vale	Merri-bek City Council	Flash

Roads at risk of flash flooding over 30cm depth (minimum 50m length) in Northern Merri-bek						
Street at Risk in AEP Event			Road	Suburb	Owner	Flood Risk Type
20% AEP	5% AEP	1% AEP				
		✓	Henkel Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Hope Street	Brunswick	Merri-bek City Council	Flash
		✓	Hope Street	Brunswick West	Merri-bek City Council	Flash
		✓	Howarth Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Irvine Street	Pascoe Vale	Merri-bek City Council	Flash
	✓	✓	Kelson Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Kinross Street	Pascoe Vale	Merri-bek City Council	Flash
		✓	Leslie Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Linda Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Linsey Street	Coburg	Merri-bek City Council	Flash
		✓	Lygon Street	Brunswick East	Merri-bek City Council	Flash
	✓	✓	McLean Street	Brunswick West	Merri-bek City Council	Flash
		✓	Michael Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Millward Street	Brunswick	Merri-bek City Council	Flash
		✓	Minnie Street	Brunswick	Merri-bek City Council	Flash
		✓	Munro Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Munro Street	Coburg	Merri-bek City Council	Flash
	✓	✓	Murray Street	Coburg	Merri-bek City Council	Flash
		✓	Ohea Street	Pascoe Vale South	Merri-bek City Council	Flash
✓	✓	✓	Park Street	Parkville	Merri-bek City Council	Flash
	✓	✓	Percy Street	Brunswick	Merri-bek City Council	Flash
		✓	Prentice Street	Brunswick	Merri-bek City Council	Flash
		✓	Richards Street	Coburg	Merri-bek City Council	Flash
		✓	Saxon Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Shedden Street	Pascoe Vale	Merri-bek City Council	Flash
		✓	Sheffield Street	Coburg	Merri-bek City Council	Flash
		✓	Stanley Street	Brunswick	Merri-bek City Council	Flash
		✓	Sussex Street	Pascoe Vale South	Merri-bek City Council	Flash
	✓	✓	Talbot Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Trafford Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Trenoweth Street	Brunswick West	Merri-bek City Council	Flash
		✓	Unnamed	Coburg	Merri-bek City Council	Flash
	✓	✓	Victoria Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Victoria Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Vincent Street	Coburg	Merri-bek City Council	Flash
		✓	Wadham Street	Pascoe Vale South	Merri-bek City Council	Flash
	✓	✓	Wales Street	Brunswick West	Merri-bek City Council	Flash
	✓	✓	Wattle Grove	Coburg	Merri-bek City Council	Flash
	✓	✓	White Street	Fitzroy North	Merri-bek City Council	Flash
✓	✓	✓	Willowbank Road	Fitzroy North	Merri-bek City Council	Flash
		✓	Wilson Street	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Albert Street	Brunswick	Merri-bek City Council	Flash

Roads at risk of flash flooding over 30cm depth (minimum 50m length) in Northern Merri-bek						
Street at Risk in AEP Event			Road	Suburb	Owner	Flood Risk Type
20% AEP	5% AEP	1% AEP				
	✓	✓	Albion Street	Brunswick	Merri-bek City Council	Flash
	✓	✓	Alistair Street	Fitzroy North	Merri-bek City Council	Flash
		✓	Audley Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Barry Street	Brunswick	Merri-bek City Council	Flash
		✓	Bell Street	Coburg	Department of Transport and Planning	Flash
	✓	✓	Bellevue Street	Coburg	Merri-bek City Council	Flash
✓	✓	✓	Berry Street	Coburg	Merri-bek City Council	Flash
		✓	Brickworks Drive	Brunswick	Merri-bek City Council	Flash
✓	✓	✓	Burgundy Street	Pascoe Vale	Merri-bek City Council	Flash
	✓	✓	Cadman Street	Brunswick West	Merri-bek City Council	Flash
		✓	Carrington Street	Pascoe Vale South	Merri-bek City Council	Flash
	✓	✓	Cliff Street	Brunswick	Merri-bek City Council	Flash
Totals						
20	44	69				

Table C4.4 – Roads subject to flash flooding over 30cm depth (minimum 50m length of impact) which may require closure whilst flooded

Flood mitigation

Retarding basins

A reserve may hold a large amount of stormwater during an event. These include:

Reserve / Park	On Drain / Waterway	Location	Melway Reference
Dunstan Reserve	Melville Main Drain	Peacock Street, Brunswick West	29 B4

Table C4.5 – Parks and Reserves along the Melville Main Drain in the City of Merri-bek

There is a Levee along the Glenlyon Road Drain in Fitzroy North adjacent to the Merri Creek that will likely impact local roads during a flash flood event.

Levees

Levee	Reach	Side	Levee Height	Levee Length	Expected Level of Protection	ANCOLD Hazard Rating	Consequences of Failure	Melway Reference
Merri Creek, Fitzroy North	Alister Street	West	1.8m (31.50m AHD)	0.3km	11% AEP Flood (freeboard unknown). 1% AEP Flood Level is: 32.10m AHD. Max Recorded Flood: 30.48m AHD	Significant	11 residential properties at risk of flooding along Alister Street	30 C9

Table C4.6 – Melbourne Water Levees in southern Merri-bek

Sewerage infrastructure

Sewerage Infrastructure of note during a severe flood event located around Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale South is contained within the following table.

Sewer Emergency Relief Points

There are Sewer Emergency Relief Points along or close to the stormwater drainage network in Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale that will likely affect floodwater conditions should they be activated. Contact the Infrastructure Operator EMLO/Duty Officer for information on any recent or planned releases at a Sewer Emergency Relief Point as part of a Dynamic Risk Assessment (DRA) if work is to be conducted at or downstream of the outlet.

On Drain / Waterway	Bank / Side of Waterway	Operator	Location	Melway Reference
Harding Street Main Drain	-	Yarra Valley Water	Harding Street at Park Street, Coburg	29 J1
Local Drainage	-	Yarra Valley Water	Albion Street at Peacock St, Brunswick West	29 B5
Melville Main Drain	-	Yarra Valley Water	Cnr Gaffney Street and Derby Street, Pascoe Vale	17 D10
Melville Main Drain	-	Yarra Valley Water	Cnr Sussex Street and Ohea Street, Pascoe Vale South	17 D11
Melville Main Drain	-	Yarra Valley Water	Cramer Street, Coburg	17 E11
Melville Main Drain	-	Yarra Valley Water	Linsey Street, Coburg	17 E12
Melville Main Drain	-	Yarra Valley Water	Haig Avenue, Coburg	29 F4
Melville Main Drain	-	Yarra Valley Water	Lane between Cornwall Street and Shamrock Street, Brunswick West	29 E4
Melville Main Drain	-	Yarra Valley Water	Cnr Hope Street and Percy Street, Brunswick	29 G6
Melville Main Drain	-	Yarra Valley Water	Newman Street at Stranks Avenue, Brunswick West	29 D5
Melville Main Drain	-	Yarra Valley Water	Wales Street, Brunswick West	29 C4

Table C4.7 – Sewer Emergency Relief Points along the stormwater drainage network in Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale South

Flood impacts and operational considerations (intelligence cards)

The table on the following pages provide a breakdown of the possible consequences of flooding along the stormwater drains in Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale South at various rain totals. This table is 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:

- Stormwater Drains in Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale South

FLOOD INTELLIGENCE CARD – STORMWATER DRAINS, COBURG, BRUNSWICK AND PASCOE VALE SOUTH (UNGAUGED)

Version 4 – March 2024

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. **Scan the QR code for the current rain totals for this gauge.***



CLOSEST RAIN GAUGE:	Merri Creek at Coburg North
LOCATION:	West side of the Creek at the Bell Street Bridge, Coburg
RECENT RAINFALL:	https://www.melbournewater.com.au/water-and-environment/water-management/rainfall-and-river-levels#/reader/229645A

GAUGE NUMBER:	229645A
GAUGE TYPE:	Stream Level & Rain
MELWAY REF:	16 D7

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; 29mm in 2 hours; 33mm 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 ungauged nature of the catchment. This should be used as a guide only.	20% AEP (5 year ARI)	Properties at Flood Risk (over 30cm depth in yard close to the primary building location) (Refer to property table in this appendix for more detail) 170 Properties in Total 126 residential properties in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick, Brunswick West, Brunswick East and Fitzroy North 38 commercial businesses in Pascoe Vale South and Brunswick 1 factory in Brunswick 5 public use spaces in Coburg, Brunswick and Brunswick West Community Infrastructure Likely Flooded - Bicycle / Walking Trail at Dunstan Reserve, end of Lyne Grove, Brunswick West - Dunstan Reserve Child Care Centre at 49-55 Everett Street, Brunswick West - Esslemont Reserve, Somerset Street, Pascoe Vale - Gilpin Park on Albert Street, Brunswick - L.D. Johns Reserve on McLean Street, Brunswick West - Lynall Hall Community School at 189 Urquhart Street, Coburg Essential Infrastructure Likely Impacted - Bus Route 512 on Munro Street, Coburg - Bus Route 561 along Gaffney Street, Pascoe Vale Water Over Road (over 30cm depth, min 50m length of impact) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Gaffney Street, Pascoe Vale between Derby and Stennis Streets	VICSES to respond on a request by request basis. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		19 local roads in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick, Brunswick West, Brunswick East and Fitzroy North	
16mm in 10 mins; 27mm in 30 mins; 34mm in 1 hour; 41mm in 2 hours; 47mm in 3 hours; or 59mm 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.	5% AEP (20 year ARI)	Properties at Flood Risk (over 30cm depth in yard close to the primary building location) (Refer to property table in this appendix for more detail) 652 Properties in Total 499 residential properties in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick, Brunswick West, Brunswick East and Fitzroy North 139 commercial businesses in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick and Brunswick East 1 factory in Brunswick 13 public use spaces in Pascoe Vale, Coburg, Brunswick and Brunswick West Community Infrastructure Likely Flooded - Bicycle / Walking Trail at Dunstan Reserve, end of Lyne Grove, Brunswick West - Coburg Station Reserve, Harding Street, Coburg - Dunstan Reserve Child Care Centre at 49-55 Everett Street, Brunswick West - Esslemont Reserve, Somerset Street, Pascoe Vale - Gilpin Park on Albert Street, Brunswick - Jacobs Reserve on Melville Road, Brunswick West - L.D. Johns Reserve on McLean Street, Brunswick West - Lynall Hall Community School at 189 Urquhart Street, Coburg - McCleery Reserve on Munro Street, Coburg Essential Infrastructure Likely Impacted - Bus Route 503 on Albion Street, Brunswick - Bus Route 506 on Glenlyon Road, Brunswick East - Bus Route 509 on Hope Street, Percy Street and Victoria Street, Brunswick - Bus Route 512 on Munro Street, Coburg - Bus Route 561 along Gaffney Street, Pascoe Vale - Sewer Emergency Relief Point located at Harding and Park St, Coburg - Sewer Emergency Relief Points located at Cnr Gaffney St and Derby St, Pascoe Vale; Cnr Sussex St and Ohea Street, Pascoe Vale South; Cramer St, Coburg; Linsey Street, Coburg; Haig Ave, Coburg; lane between Cornwall St and Shamrock St, Brunswick West; and Wales St, Brunswick West - Sewer Emergency Relief Points located at cnr Hope St and Percy St, Brunswick; and Newman St at Stranks Ave, Brunswick West Water Over Road (over 30cm depth, min 50m length of impact) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Gaffney Street, Pascoe Vale between Derby and Stennis Streets 43 local roads in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick, Brunswick West, Brunswick East and Fitzroy North	VICSES may provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. VICSES to respond on a request by request basis. Local unit will likely require additional support from surrounding units due to high RFA numbers MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters Underground car parks in multi-story developments very likely to be flood affected. This may cause some issues with vehicle damage and isolation of residents if lifts are impacted. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
64mm in 6 hours	1 st June 2013 Flash Flood Event		
43mm in 2 hours	6 th November 2018 Flash Flood Event	Event Summary - Ground floor and underground car parks of Multi-lot properties in Michael Street, Brunswick flooded, impacting elevators and isolating a vulnerable persons on upper level apartment - Properties along the Harding Street Main Drain flooded	
24mm in 10 mins; 39mm in 30 mins; 49mm in 1 hour; 60mm in 2 hours; 67mm in 3 hours; or 83mm 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.	1% AEP (100 year ARI)	Properties at Flood Risk (over 30cm depth in yard close to the primary building location) (Refer to property table in this appendix for more detail) 1085 Properties in Total 770 residential properties in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick, Brunswick West, Brunswick East and Fitzroy North 290 commercial businesses in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick and Brunswick East 6 factories in Brunswick 19 public use spaces in Pascoe Vale, Coburg, Brunswick and Brunswick West Community Infrastructure Likely Flooded - Bicycle / Walking Trail at Dunstan Reserve, end of Lyne Grove, Brunswick West - Brunswick South West Primary School at 5A South Daly Street, Brunswick West - Coburg Station Reserve, Harding Street, Coburg - Coburg West Bowling Club on Bellevue Street, Coburg - Dunstan Reserve Child Care Centre at 49-55 Everett Street, Brunswick West - Esslemont Reserve, Somerset Street, Pascoe Vale - Gilpin Park on Albert Street, Brunswick - Jacobs Reserve on Melville Road, Brunswick West - L.D. Johns Reserve on McLean Street, Brunswick West - Lynall Hall Community School at 189 Urquhart Street, Coburg - Scout Hall at Jacobs Reserve on Jolley Street, Brunswick West - Mailer Reserve on Moreland Road, Coburg - McCleery Reserve on Munro Street, Coburg - Wintringham Gilgunya Aged Care Village at 23-25 Harding Street, Coburg Essential Infrastructure Likely Impacted - Bus Route 503 on Albion Street, Brunswick - Bus Route 506 on Glenlyon Road, Brunswick East - Bus Route 509 on Hope Street, Percy Street and Victoria Street, Brunswick - Bus Route 512 on Munro Street, Coburg - Bus Route 513 on Bell Street, Coburg - Bus Route 527 on Sussex Street, Pascoe Vale South - Bus Route 561 along Gaffney Street, Pascoe Vale, Sussex Street, Pascoe Vale South and on Bell Street, Coburg - Sewer Emergency Relief Points located at Cnr Gaffney St and Derby St, Pascoe	VICSES will provide warnings using EM-COP and VicEmergency to Merri-bek Council and appropriate agencies where possible and as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES North West Metro RDO in conjunction with the RAC will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. VICSES to respond on a request by request basis. Number of RFAs will likely be too great for local resources to manage within 48 hours. MCC EHOs to have awareness of potential public and environmental health impacts of outfalls from Sewer Emergency Relief Structures within floodwaters Underground car parks in multi-story developments very likely to be flood affected. This may cause some issues with vehicle damage and isolation of residents if lifts are impacted. Council and VicRoads (as appropriate) to provide road closure

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		Vale; Cnr Sussex St and Ohea Street, Pascoe Vale South; Cramer St, Coburg; Linsey Street, Coburg; Haig Ave, Coburg; lane between Cornwall St and Shamrock St, Brunswick West; and Wales St, Brunswick West - Sewer Emergency Relief Point located at Harding and Park St, Coburg - Sewer Emergency Relief Points located at cnr Hope St and Percy St, Brunswick; and Newman St at Stranks Ave, Brunswick West - Trams on Routes 1 and 6 on Lygon Street at Brunswick Road, Brunswick East Water Over Road (over 30cm depth, min 50m length of impact) (Roads in red are Department of Transport operated roads) (Refer to roads table in this appendix for more detail) - Bell Street, Coburg between Cramer and Lindsay Streets - Gaffney Street, Pascoe Vale between Derby and Stennis Streets 67 local roads in Pascoe Vale, Pascoe Vale South, Coburg, Brunswick, Brunswick West, Brunswick East and Fitzroy North	signage under predetermined arrangements

Table C4.8 – Breakdown of possible consequences at various rainfall intensities around Coburg, Brunswick, Brunswick West, Brunswick East and Pascoe Vale South with operational considerations

Appendix D – Flood evacuation arrangements

Phase 1 - Decision

Under the [SEMP](#), Victoria Police has the responsibility for evacuation ([Evacuation Manager](#)) – in consultation with the control agency and other expert advice. EMV has developed a standardised procedure for evacuation under [JSOP J03.12](#).

The IC decides whether to warn people to evacuate within a specified timeframe or whether it is necessary to advise them to evacuate immediately. The IC must make this decision having regard for the requirements of the JSOP.

Once the IC decides to recommend evacuation, the Victoria Police's Evacuation Manager is 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.

Victoria Police and/or Australian Red Cross may take on the responsibility of registering people affected by a flood emergency including those who have been evacuated. [Register.Find.Reunite](#) is a service that, when activated by government agencies, has the ability to record whether people are leaving or staying where they are, and should be promoted as part of any door knocking, community information and warnings, and media activities.

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 because of flooding and the IC considers that evacuation is the most effective risk treatment. The [AV Health Commander](#) is responsible for supporting the evacuation of vulnerable people. Refer to the [State Health Emergency Response Plan \(SHERP\)](#) for details)
- essential services have been damaged and are not available to a community, therefore the IC considers evacuation is 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 and 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
- is cross border assistance required or evacuation to another municipality relief centre?
- resources required and available to conduct the evacuation
- shelter including emergency relief centres, assembly areas
- vulnerable people and facilities
- transportation
- registration
- people of cultural or linguistically diverse background and transient populations
- safety of emergency service personnel
- different stages of an evacuation process.

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

When planning evacuation, the IC will consider triggers for evacuation. For example, specific flood heights are predicted. No triggers for the City of Merri-bek have been defined.

Phase 2 – Warning

Warnings may include a warning to 'prepare to evacuate' and a warning to 'evacuate now'. Once the IC has made the decision to evacuate, the at-risk community will be warned to evacuate. Evacuation warnings should be disseminated via methods listed in [Part 3](#) and [Appendix E](#) of this plan.

Phase 3 – Withdrawal

In accordance with the [JSOP](#), The Victoria Police Evacuation Manager will consult with the IC and IEMT on the most appropriate relief options. When preparing the schedule 2 Evacuation Recommendation as per the [JSOP](#), it is important to ensure that the recommended routes and specified relief centres are accessible to the relevant community. This is to ensure a community does not receive advice about a relief centre that may not be accessible to them due to road closures and flooding.

VICSES, CFA, AV and Merri-bek City Council will provide resources where available to support Victoria Police/DTP with route control and may assist Victoria Police in arranging evacuation transportation.

Victoria Police 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 where possible and practicable.

Vulnerable Persons Register

DFFH is responsible for the [Vulnerable Persons Register \(VPR\)](#). It operates across Victoria and provides 24/7 access to data by authorised emergency management agencies. The system can be accessed via most web enabled devices and includes locality aware functions for mobile devices.

DFFH has developed the VPR to store local information about consenting, identified vulnerable people¹⁰, which will be directly entered by funded agencies and locally overseen by municipal councils¹¹. The VPR is cloud-based and directly accessible to authorised representatives from Victoria Police (without having to contact the council or funded agency) to aid emergency planning and response, including potential evacuation.

The information in the VPR can be filtered, mapped, and where necessary exported to reports for authorised purposes, according to the role and access rights of each organisation.

Additionally, 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 Merri-bek Council's MRM.

¹⁰ Informed consent will be required before identified vulnerable people can be registered in a VPR. In keeping with the definition of a vulnerable person and the additional considerations the VPR should only list a small number of people, as per Diagram 1. More information about the identification and screening process for VPRs is available in Protocol 1: Emergency planning and screening.

¹¹ 64 councils covered by the Vulnerable People in Emergencies Policy, November 2012.

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. Please refer to the [MEMP](#) for details of suitable flood relief centres and/or Assembly Areas.

Victoria Police in consultation with VICSES will liaise with Merri-bek City Council and DFFH (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).

Caravans

There is a caravan park within Merri-bek – Melbourne Big4 Holiday Park. Additionally, while not a caravan park, the Federation Residential Village in Glenroy predominantly consist of transportable homes. Caravan evacuation sites have not been identified within the Merri-bek City Council area.

Appendix E – Flood warning systems

Public information and warnings

Flood and storm warning products and Flood Class Levels can be found on the BoM and VicEmergency websites, including Severe Thunderstorm Warnings, Severe Weather Warnings, Flood Watches and Flood Warnings.

VICSES uses EM-COP Public Publishing to distribute warnings in Victoria. The platform enables automatic publishing to the VicEmergency app, website and hotline (1800 226 226). Communities can also access this information through VICSES social media channels (Victoria State Emergency Service on Facebook and VICSES News on Twitter) and emergency broadcasters, such as Sky News TV and various radio stations (current list available via the [EMV website](#)).

VICSES Regions (or ICCs where established) lead the issuing of warnings for riverine flood events when pre-determined triggers are met (issuing of a BOM Flood Watch or Warning), and share locally tailored information via the standard VICSES communication channels (social media, traditional media, web and face to face). These activities are coordinated by the VICSES RDO and approved by the VICSES RAC, or the PIO and IC respectively (when an ICC is active).

If verified reports are received of flash flooding posing, or resulting in, a significant threat to life or property, VICSES Regions (or ICCs) will issue a flash flood warning product via EM-COP.

VICSES at the state tier (or SCC Public Information Section) lead the issuing of warnings for severe weather and storm when pre-determined triggers are met and plays an important role in sharing riverine and flash flood information via state-based standard communication channels.

During some emergencies, VICSES may alert communities by sounding a local siren, or by using the Emergency Alert (EA) platform to send an SMS to mobile phones or a voice message to landlines. The use of sirens for higher-end warnings has been pre-determined, and mapped to relevant warning templates in EM-COP.

EM-COP Public Publishing Business Rules are available in the **Public Information section of the IMT Toolbox**, providing further guidance on specific triggers, roles and responsibilities. VICSES SOP057 and JSOP 04.01 also provide further guidance.

Local flood warning system arrangements

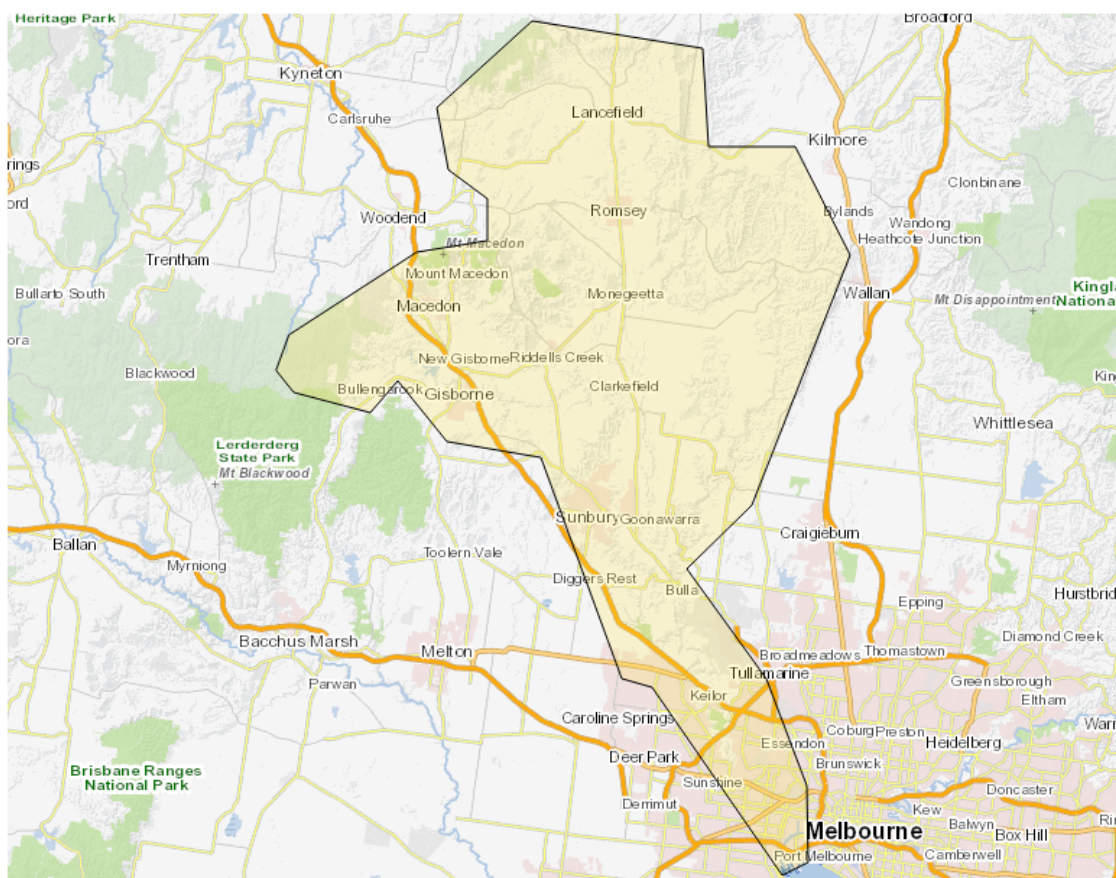
There are no local flood warning systems in place within Merri-bek. General warnings during flood events will be disseminated as noted in Part 3.

Flood warning example

ADVICE - FLOOD

Incident Location: Maribymong
Incident Name: MaribymongFloodSept2016
Issued: Set at publish time
Next Update Expected:

Map



Message

This **Minor Flood Warning** is being issued for Maribymong River.

- The Maribymong River catchment has received rainfall averaging about 31mm since 0900am yesterday. Rainfall totals of 5mm have been forecast for the catchment in the next 2 hours.
- Water levels of the Maribymong River and its tributaries at various locations are rising in response to the rain.
- The level of the Deep Creek at Darraweit Guim is currently 5.41m and rising. It is expected to peak above the Minor Flood Level (5.50m) this morning.
- Minor flooding in the Deep Creek and Maribymong River catchment is expected to affect low lying areas adjacent to the waterway. Minor roads may be closed.

The river heights at 08.14am 14/09/2016 were:

- Deep Creek at Doggetts Bridge, Lancefield: 2.22 metres, rising
- Deep Creek at Darraweit Guim: 5.47 metres, falling
- Deep Creek at Konagaderra: 3.62 metres, falling
- Bolinda Creek at Clarkefield: 1.19 metres, rising
- Deep Creek at Bulla: 2.39 metres, falling
- Rosslynne Reservoir, Head Gauge: 38.52 metres, rising
- Jacksons Creek at Sunbury: 2.13 metres, rising
- Steele Creek at Keilor East: 1.19 metres, rising
- Maribymong River at Keilor North: 3.58 metres, rising
- Maribymong River at Keilor: 1.84 metres, rising
- Maribymong River at Maribymong: 0.04 metres, rising

Stay informed - monitor your local conditions and remain alert.

What you should do:

- Be prepared to act if your situation changes.
- You should stay informed by listening to emergency broadcasters and monitoring warnings.
- Monitor weather forecasts and river levels. Go to www.bom.gov.au/vic/warnings.
- Floodwater is dangerous - never drive, walk or ride through floodwater.

Impacts in your area:

- Flooding above floor level of a single story home is likely to occur in some locations.
- Local roads may be closed and low bridges may be underwater.
- Areas around rivers and streams may be flooded.

This message was issued by State Emergency Service.

The next update is expected by 4PM this afternoon or as the situation changes.

Flood information:

- For river heights check www.bom.gov.au or phone 1300 659 217.
- For urgent animal welfare issues call [Agriculture Victoria](http://www.agriculture.vic.gov.au) on 136 186 or your local vet.

Appendix F – Maps and schematics

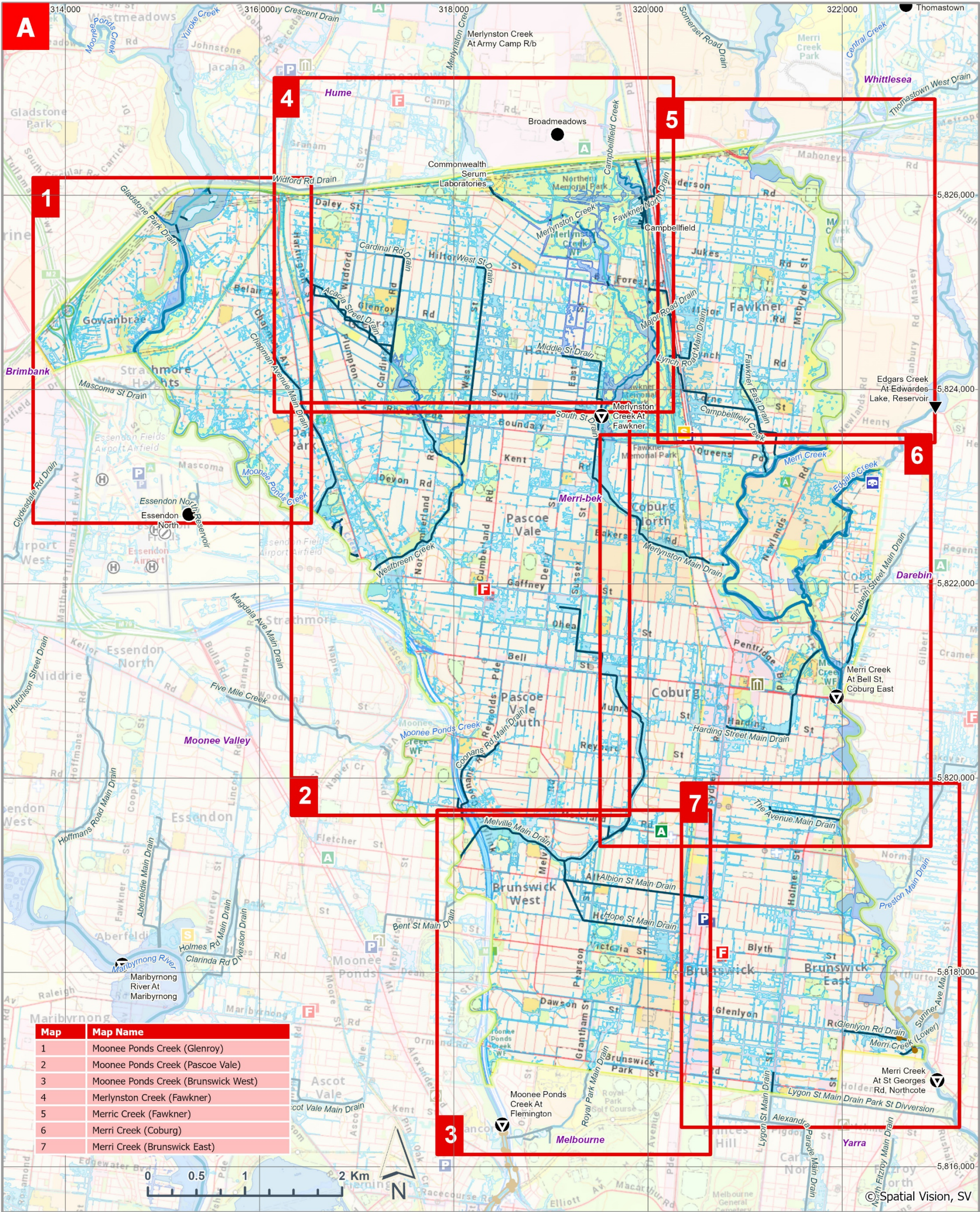
Overview

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 Merri-bek.
- A map showing the Municipal boundary together with the open waterways and underground stormwater drainage pipe network within the City of Merri-bek and the 1% AEP (100-year ARI) flood extents (sourced from Melbourne Water GIS).
- A set of 7 maps showing flooding hot spots within the City of Merri-bek together with the 1% AEP (100-year ARI) flood extents (sourced from the Melbourne Water GIS).
- Schematics detailing the drainage catchments relevant for this municipality.
 - 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:

- 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 Merri-bek 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 DTP website <https://mapshare.vic.gov.au/vicplan/>
- Maps showing floodways are shown at DEECA's mapshare website <https://mapshare.vic.gov.au/mapsharevic/>
- 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.



Map produced by VICSES February 2024.

CITY OF MERRI-BEK
1% AEP (100yr ARI) Flooding
A. Municipal Flood Index Map (1% AEP (100yr ARI) Extent)

Waterbody

1% AEP Riverine Flood Extent

1% AEP Flash Flood Extent

Waterway

Melbourne Water Stormwater Drain

Levee

Embankment

S

VICSES Unit

A

Ambulance Station

M

Municipal Depot

F

Fire Station

GO

Municipal Offices / Civic Centre

P

Police Station

CP

Caravan Park

▽

Stream Level & Rain Gauge

▼

Stream Level Gauge

●

Rain Gauge

⊙

Airfield

⊕

Helipad

Merri-bek Boundary

Merri-bek Map Extents

LAND USE

Residential

Commercial and Business

Industrial

Public Parks / Cemeteries / Recreation

Utilities and Local Government Facilities

Education

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Municipal Flood and Storm Emergency Plan for City of Merri-bek – November 2024 - 136 -



Map produced by VICSES February 2024.

CITY OF MERRI-BEK
1% AEP (100yr ARI) Flooding
B. Municipal Flood Map
(1% AEP (100yr ARI) Extent)

Waterbody

1% AEP Riverine Flood Extent

1% AEP Flash Flood Extent

Waterway

Melbourne Water Stormwater Drain

Levee

Embankment

S

VICSES Unit

A

Ambulance Station

M

Municipal Depot

F

Fire Station

M

Municipal Offices / Civic Centre

P

Police Station

C

Caravan Park

V

Stream Level & Rain Gauge

▼

Stream Level Gauge

●

Rain Gauge

⊙

Airfield

H

Helipad

Merri-bek Boundary

Residential

Commercial and Business

Industrial

Public Parks / Cemeteries / Recreation

Utilities and Local Government Facilities

Education

SES

VICTORIA

State Government

Melbourne Water

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Municipal Flood and Storm Emergency Plan for City of Merri-bek – November 2024 - 137 -

**CITY OF
MERRI-BEK**
1% AEP (100yr ARI) Flooding
**1. Moonee Ponds Creek
(Glenroy)**

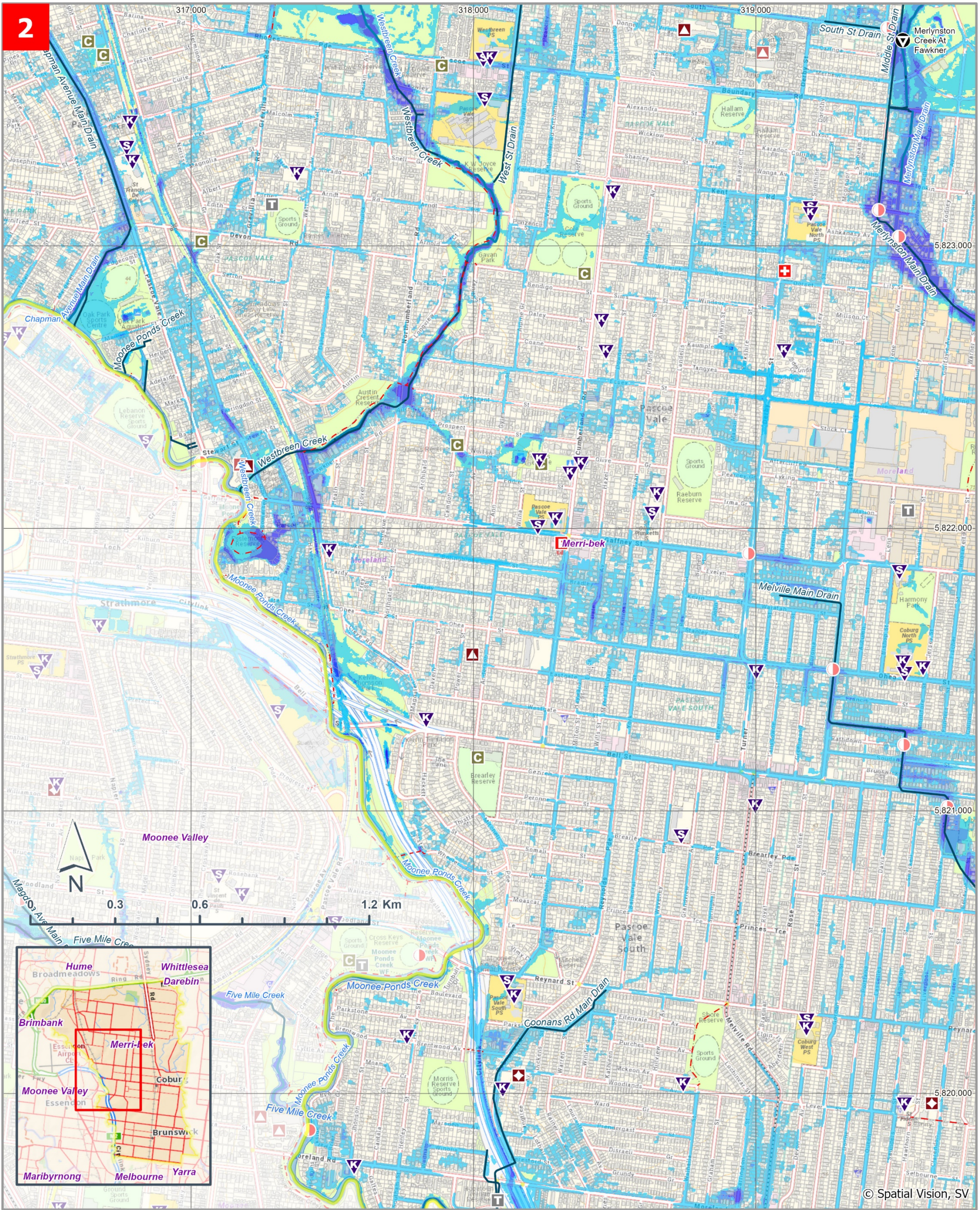
- | | | | |
|---|---|---|----------------------------|
|  | Building |  | Child Care / Kindergarten |
|  | Property |  | Community Venue |
|  | 1% AEP Riverine Flood Extent (Depth Unavailable) |  | Education Facility |
|  | 1% AEP Flash Flood Extent (Council) (Depth Unavailable) |  | Hospital / Day Procedure |
|  | Melbourne Water Retarding Basin |  | Police Station |
|  | Waterway |  | Telephone Exchange |
|  | Melbourne Water Stormwater Main |  | Retirement Village |
|  | Bicycle / Walking Trail |  | Heilpad |
|  | Aged Care / Disability Support |  | Airfield / Airport |
|  | Ambulance Station |  | MVIC Drainage Pump Station |

-  MWC Sewer Pump Station
-  Retail Sewer Pump Station
-  Retail Sewer Emergency Relief Point
-  Rain Gauge

- 1% AEP Flood Depth
- Up to 30cm
 - Between 30cm and 60cm
 - Greater than 60cm

- | LAND USE | |
|---|---|
|  | Residential |
|  | Commercial and Business |
|  | Industrial |
|  | Public Parks / Cemeteries / Recreation |
|  | Utilities and Local Government Facilities |
|  | Education |

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Moonee Ponds Creek flood modelling completed by Melbourne Water, Jan 1996. Stormwater drainage flood modelling completed by Engeny, May 2022. Map produced by VICSES: 23/02/2024 11:50 AM

CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding

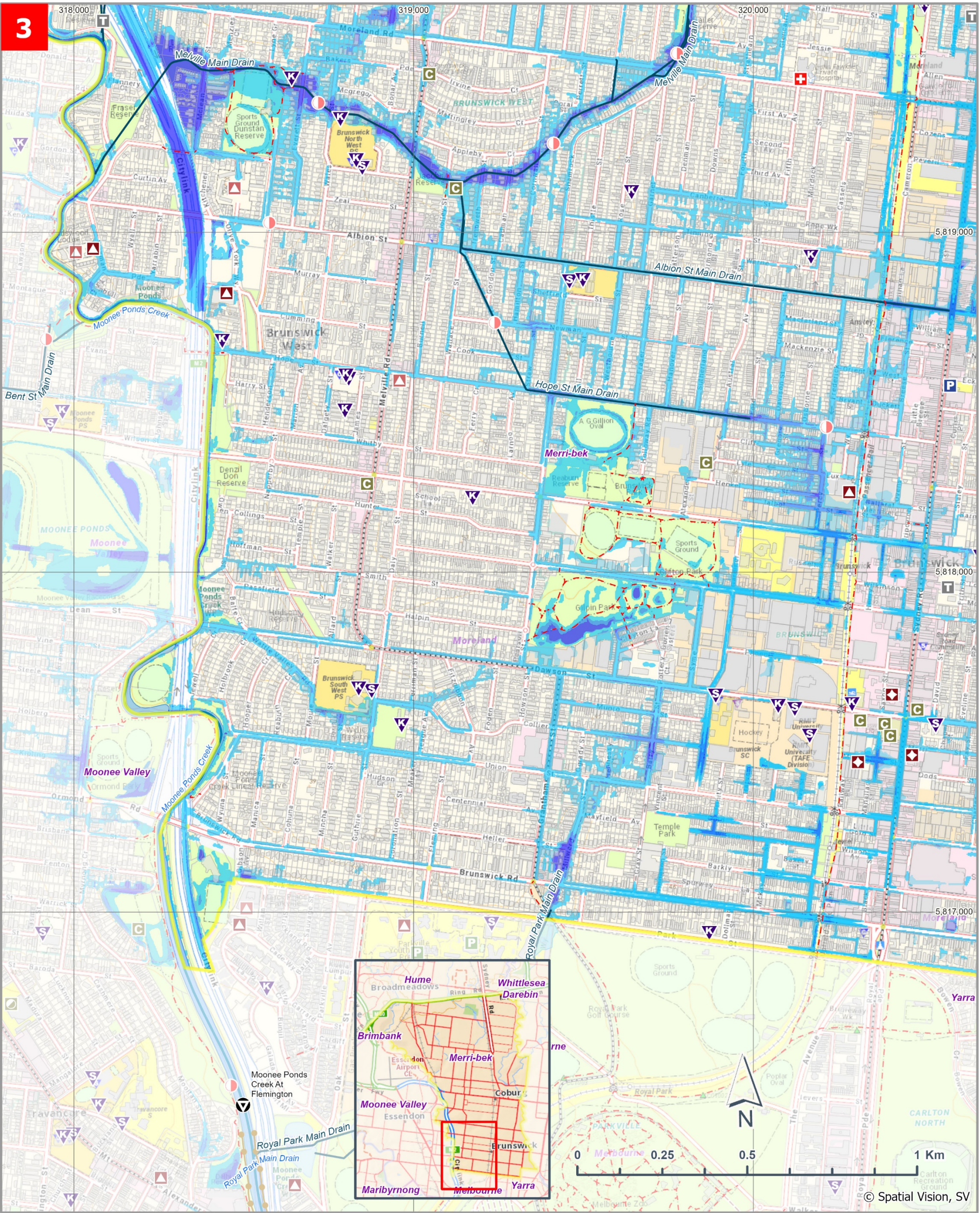
2. Moonee Ponds Creek (Pascoe Vale)

- | | | |
|--|----------------------------------|-------------------------------------|
| Building | Community Venue | MWC Drainage Pump Station |
| Property | Education Facility | MWC Sewer Pump Station |
| 1% AEP Riverine Flood Extent (Depth Unavailable) | Fire Station | Retail Sewer Emergency Relief Point |
| Waterway | Hospital / Day Procedure | Stream Level & Rain Gauge |
| Melbourne Water Stormwater Main | Place Of Worship | Merri-bek Boundary |
| Bicycle / Walking Trail | Telephone Exchange | 1% AEP Flood Depth |
| Aged Care / Disability Support | Retirement Village | Up to 30cm |
| Child Care / Kindergarten | MWC Sewer Emergency Relief Point | Between 30cm and 60cm |
| | | Greater than 60cm |

LAND USE	
	Residential
	Commercial and Business
	Industrial
	Public Parks / Cemeteries / Recreation
	Utilities and Local Government Facilities
	Education



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Moonee Ponds Creek flood modelling completed by Melbourne Water, Jan 1996. Stormwater drainage flood modelling completed by Engeny, May 2022. Map produced by VICSES: 23/02/2024 12:13 PM

CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding

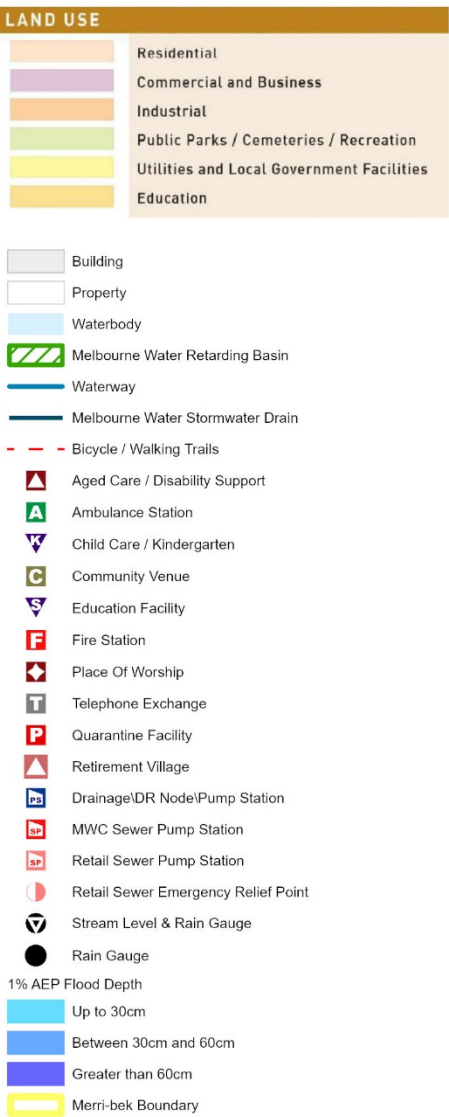
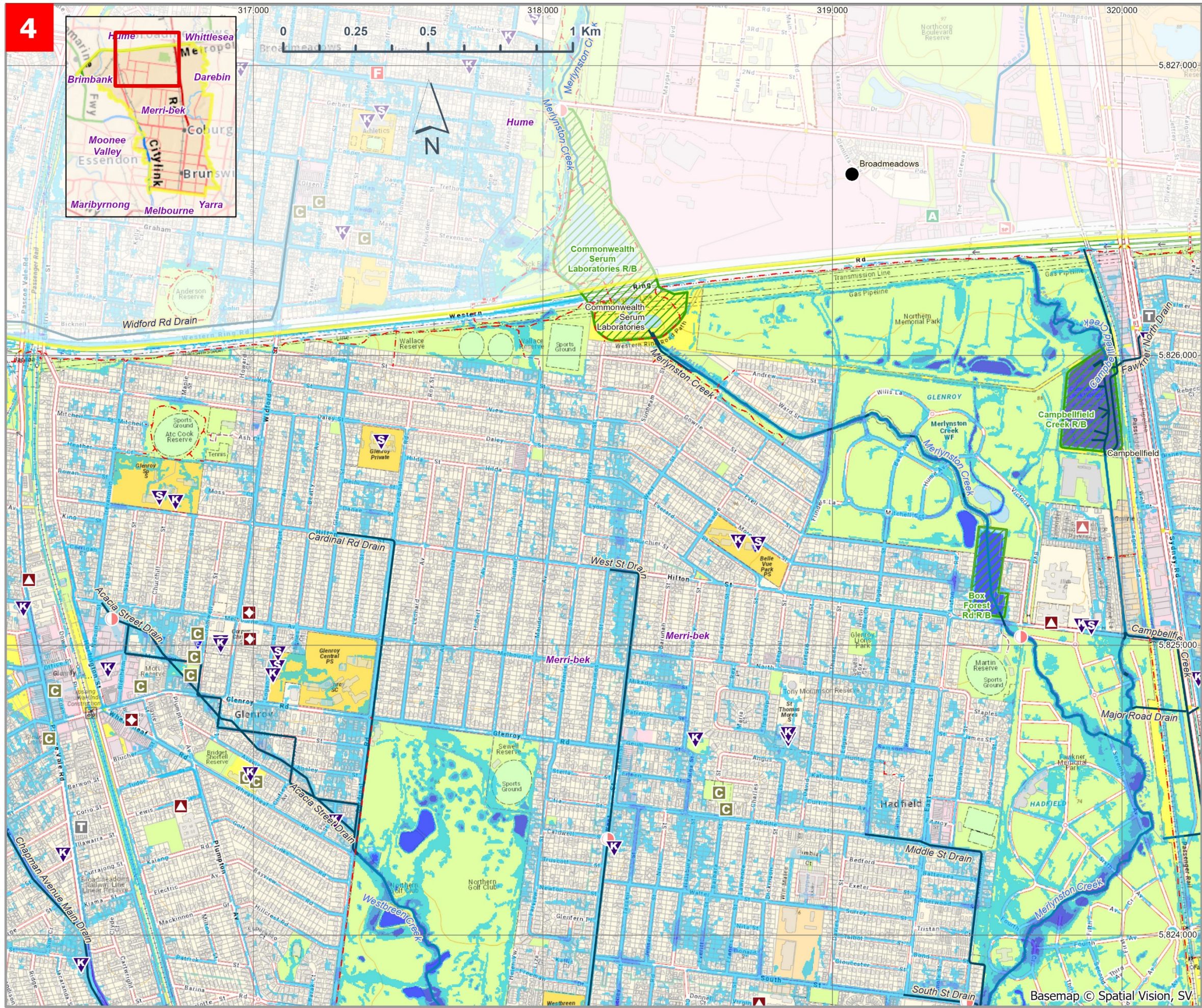
3. Moonee Ponds Creek (Brunswick West)

- | | | | | | |
|--|--|--|--------------------------|--|-------------------------------------|
| | Building | | Community Venue | | MWC Sewer Emergency Relief Point |
| | Property | | Municipal Depot | | MWC Drainage Pump Station |
| | 1% AEP Riverine Flood Extent (Depth Unavailable) | | Education Facility | | MWC Sewer Pump Station |
| | Waterway | | Hospital / Day Procedure | | Retail Sewer Emergency Relief Point |
| | Melbourne Water Stormwater Main | | Place Of Worship | | Stream Level & Rain Gauge |
| | Levee | | Police Station | | Merri-bek Boundary |
| | Bicycle / Walking Trail | | Prison / Justice | | 1% AEP Flood Depth |
| | Aged Care / Disability Support | | Telephone Exchange | | Up to 30cm |
| | Ambulance Station | | Prison | | Between 30cm and 60cm |
| | Child Care / Kindergarten | | Retirement Village | | Greater than 60cm |

LAND USE	
	Residential
	Commercial and Business
	Industrial
	Public Parks / Cemeteries / Recreation
	Utilities and Local Government Facilities
	Education



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CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding

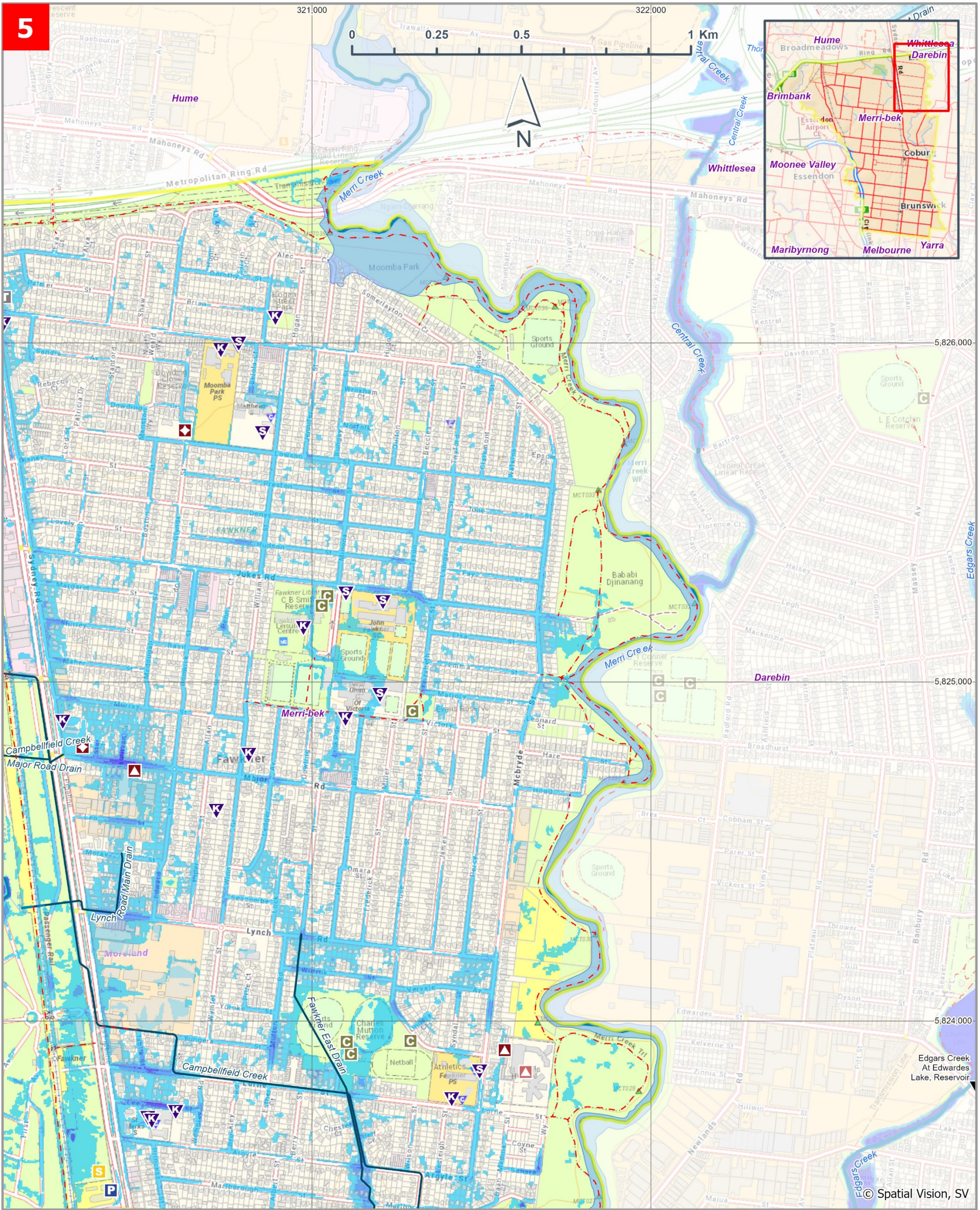
4. Merlynston Creek (Fawkner)



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Basemap © Spatial Vision, SV

Merri-bek stormwater drainage flood modelling completed by Engeny, November 2022. Map produced by VICSES 23/02/2024 2:37 PM



Merri Creek flood modelling completed by Melbourne Water. Stormwater drainage flood modelling completed by Engeny, May 2022. Map produced by VICSES: 23/02/2024 1:39 PM

CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding

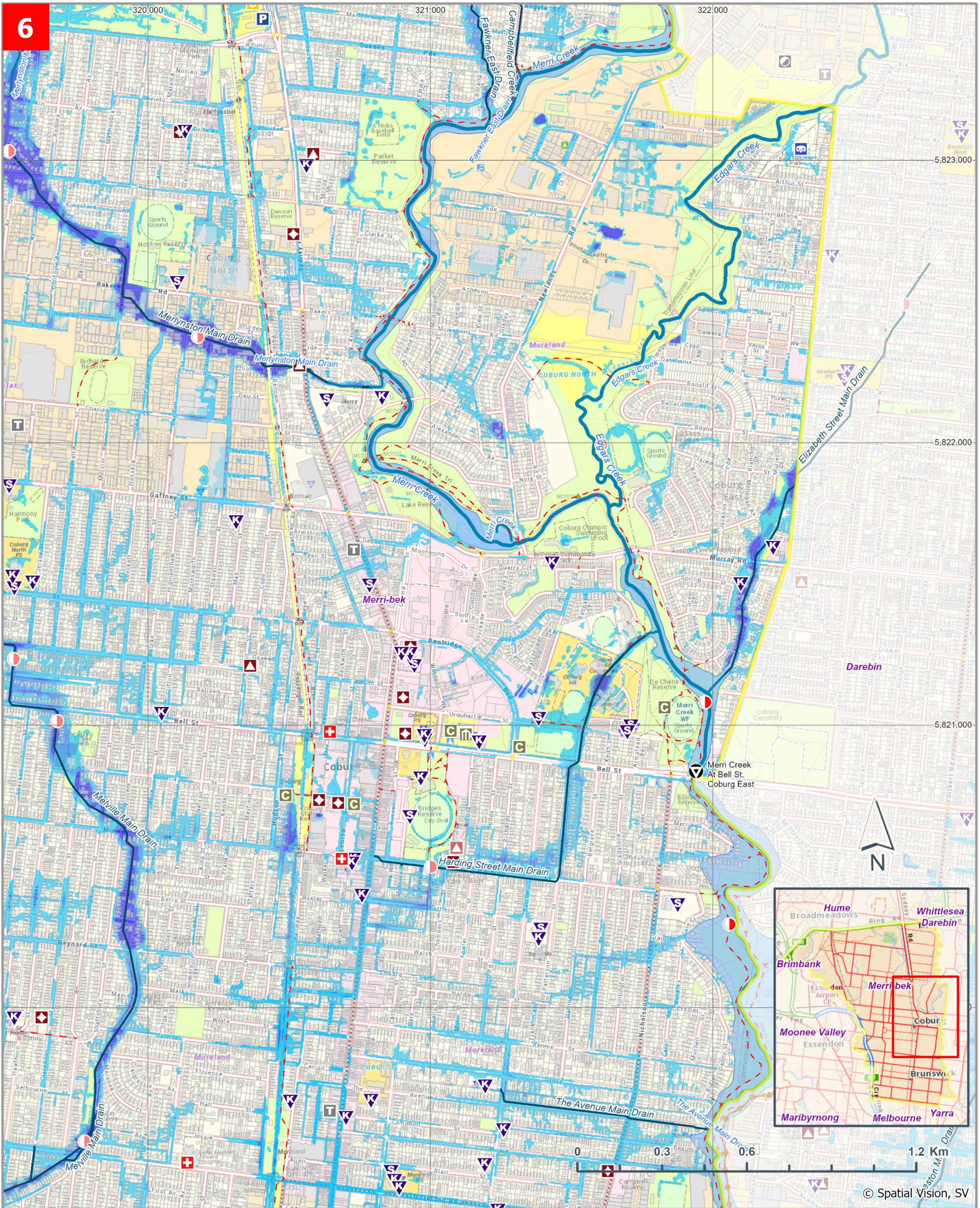
5. Merri Creek (Fawcner)

- | | | |
|--|---------------------------|-------------------------------------|
| Building | Child Care / Kindergarten | MWC Sewer Pump Station |
| Property | Community Venue | Retail Sewer Emergency Relief Point |
| 1% AEP Riverine Flood Extent (Depth Unavailable) | Education Facility | Stream Level Gauge |
| Waterway | Place Of Worship | Merri-bek Boundary |
| Melbourne Water Stormwater Main | Police Station | 1% AEP Flood Depth |
| Bicycle / Walking Trail | Telephone Exchange | Up to 30cm |
| VICSES Unit | Retirement Village | Between 30cm and 60cm |
| Aged Care / Disability Support | MWC Drainage Pump Station | Greater than 60cm |

LAND USE	
	Residential
	Commercial and Business
	Industrial
	Public Parks / Cemeteries / Recreation
	Utilities and Local Government Facilities
	Education



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Merri Creek flood modelling completed by Melbourne Water. Stormwater drainage flood modelling completed by Engeny, May 2022. Map produced by VICSES: 23/02/2024 1:24 PM

CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding

6. Merri Creek (Coburg)

- Building
- Property
- 1% AEP Riverine Flood Extent (Depth Unavailable)
- Waterway
- Melbourne Water Stormwater Main
- Levee
- Bicycle / Walking Trail
- VICSES Unit
- Aged Care / Disability Support
- Ambulance Station
- Child Care / Kindergarten

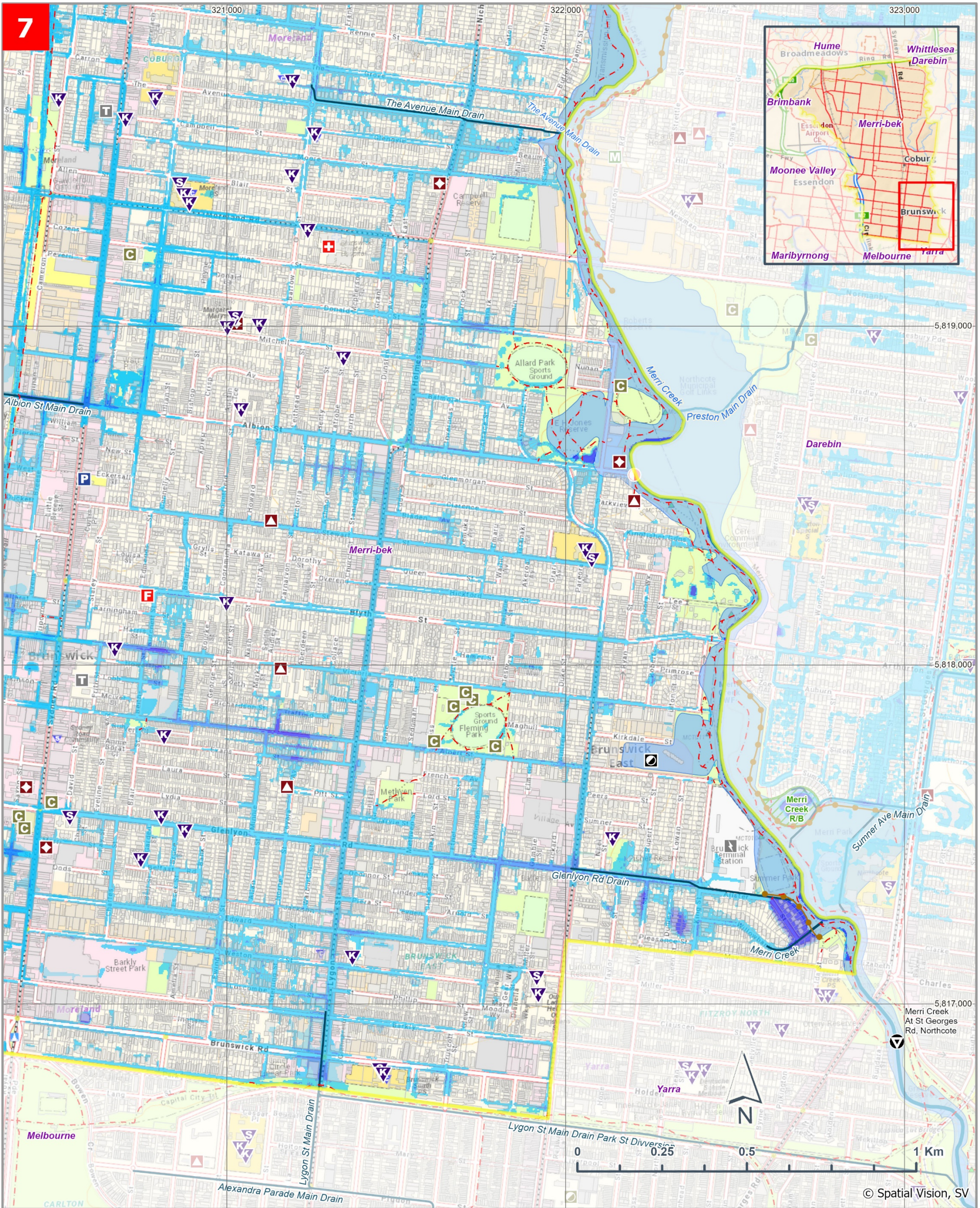
- Community Venue
- Education Facility
- Hospital / Day Procedure
- Municipal Offices / Civic Centre
- Place Of Worship
- Museum
- Police Station
- Telephone Exchange
- Tip / Recycling
- Caravan Park
- Retirement Village

- MWC Sewer Emergency Relief Point
- MWC Drainage Pump Station
- MWC Sewer Pump Station
- Retail Sewer Emergency Relief Point
- Stream Level & Rain Gauge
- Merri-bek Boundary
- 1% AEP Flood Depth
- Up to 30cm
- Between 30cm and 60cm
- Greater than 60cm

LAND USE	
	Residential
	Commercial and Business
	Industrial
	Public Parks / Cemeteries / Recreation
	Utilities and Local Government Facilities
	Education



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Merri Creek flood modelling completed by Melbourne Water. Stormwater drainage flood modelling completed by Engeny, May 2022. Map produced by VICSES: 23/02/2024 12:46 PM

CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding

7. Merri Creek (Brunswick East)

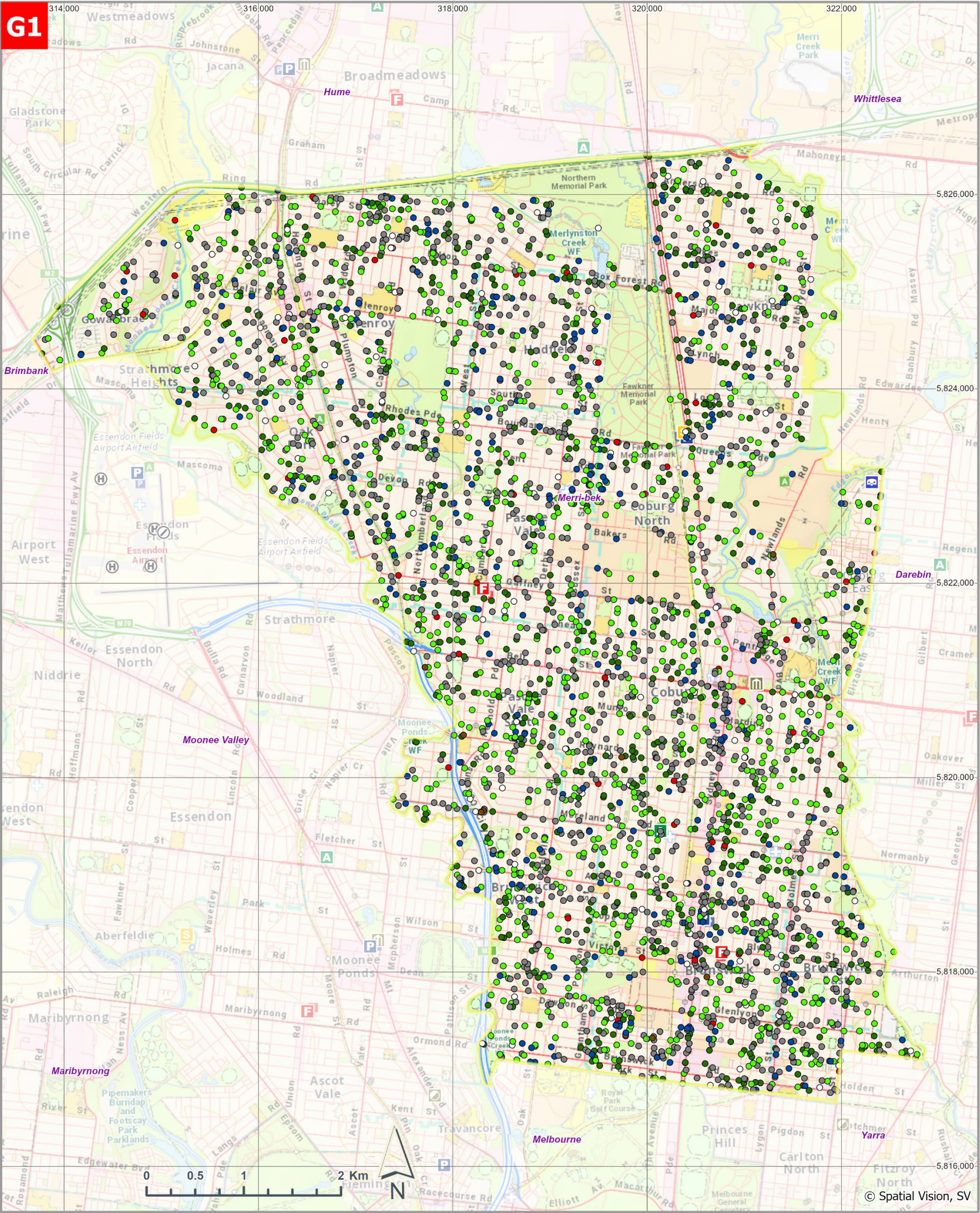
- | | | |
|--|--------------------------|-------------------------------------|
| Building | Community Venue | Power Facility |
| Property | Municipal Depot | Retirement Village |
| 1% AEP Riverine Flood Extent (Depth Unavailable) | Education Facility | MWC Drainage Pump Station |
| Melbourne Water Retarding Basin | Fire Station | MWC Sewer Pump Station |
| Waterway | Hospital / Day Procedure | Retail Sewer Emergency Relief Point |
| Melbourne Water Stormwater Main | Place Of Worship | Stream Level & Rain Gauge |
| Levee | Museum | Merri-bek Boundary |
| Bicycle / Walking Trail | Police Station | 1% AEP Flood Depth |
| Aged Care / Disability Support | Telephone Exchange | Up to 30cm |
| Child Care / Kindergarten | Tip / Recycling | Between 30cm and 60cm |
| | | Greater than 60cm |

LAND USE	
	Residential
	Commercial and Business
	Industrial
	Public Parks / Cemeteries / Recreation
	Utilities and Local Government Facilities
	Education



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VICSES Severe Weather - Request for Assistance (RFA) maps

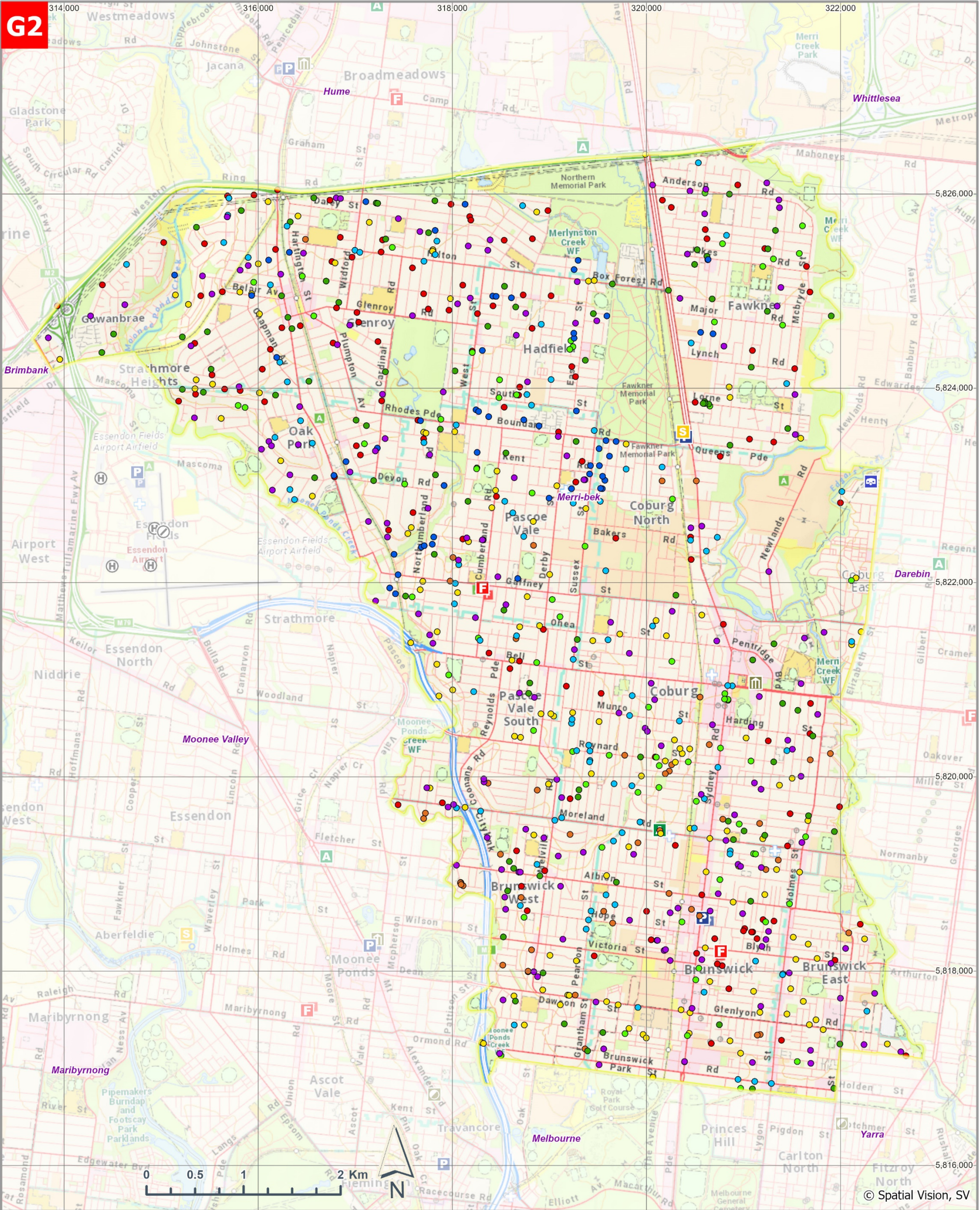


CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding
G1. VICSES Severe Weather Requests for Assistance (RFA) Received by Job Type (July 2009 - November 2023)



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Map produced by VICSES February 2024.

CITY OF MERRI-BEK

1% AEP (100yr ARI) Flooding

G2. VICSES Severe Weather Requests for Assistance (RFA) Received by Event (July 2009 - November 2023)

- | | |
|--|---------------------------|
| S VICSES Unit | Caravan Park |
| A Ambulance Station | Airfield |
| M Municipal Depot | Helipad |
| F Fire Station | Merri-bek Boundary |
| MO Municipal Offices / Civic Centre | |
| P Police Station | |

**Severe Weather RFAs (Storm or Flood)
(Where > 50 Requests Received)**

- 26th-27th December 2011 (151)
- 12th-13th August 2013 (50)
- 1st-3rd October 2013 (160)
- 24th-25th June 2014 (80)
- 9th-11th October 2016 (120)
- 29th-30th July 2017 (116)
- 2nd October 2021 (65)
- 29th October-1st November 2021 (185)

LAND USE	
	Residential
	Commercial and Business
	Industrial
	Public Parks / Cemeteries / Recreation
	Utilities and Local Government Facilities
	Education



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Moonee Ponds Creek Catchment Schematic

Version 6 - March 2024

LEGEND

Stream Level & Rain Gauge

Rain Gauge

Stream Level Gauge

TOWN / SUBURB

Reservoir / Dam / Lake

URBAN AREA

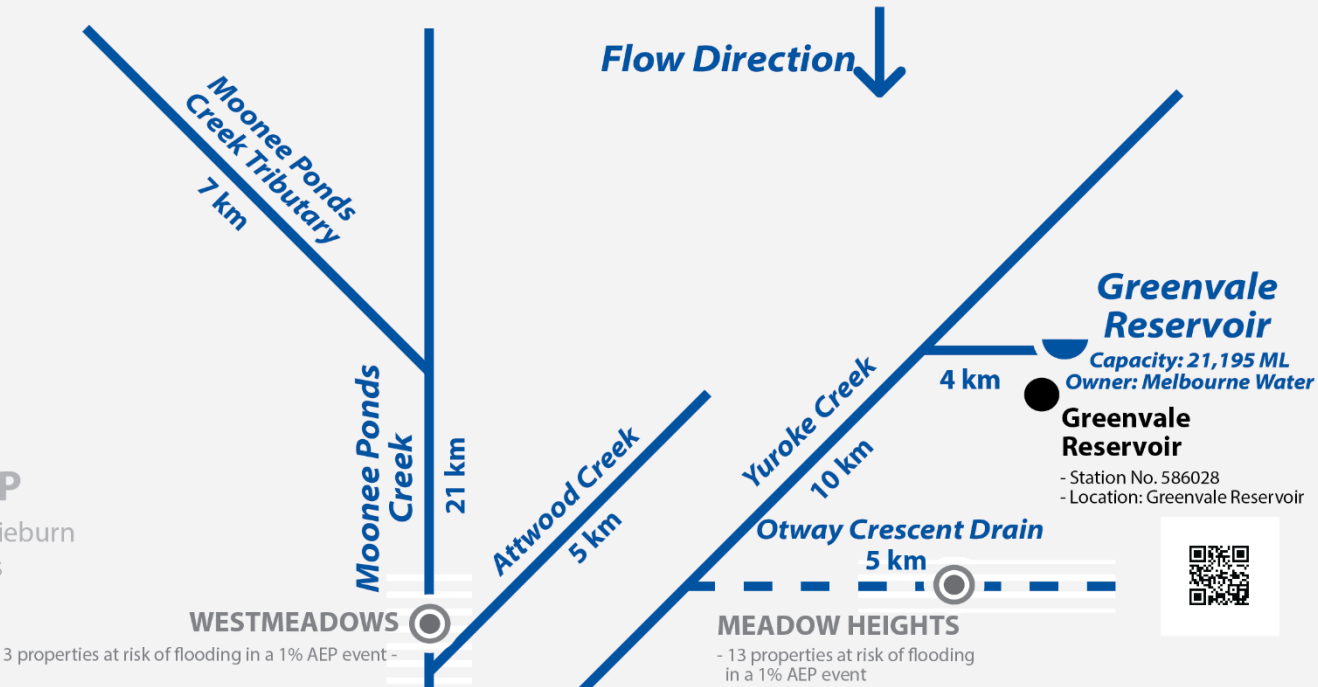
Creek / River

Stormwater Drain

20km Distance between Gauges or to River / Creek End

Schematic Not To Scale

HUME MSFEP
Broadmeadows, Craigieburn
& Sunbury Units



Jacana Retarding Basin



Moonee Ponds Creek at Jacana Retarding Basin
- Station No. 229665A
- Location: Jacana Retarding Basin, Glenroy
- Historical Flood Level: 12.57m (3rd February 2005)
- Spillway Level (Glory Hole): 12.0m
- Spillway Level (Secondary): 13.5m
- Embankment Level (Crest): 15.04m
- 1% AEP Flood Level: 15.09m



Essendon North
- Station No. 586182
- Location: Essendon Reservoir, Essendon Airport

MOONEE VALLEY MSFEP
Essendon Unit



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OAK PARK
- 39 properties at risk of flooding in a 1% AEP event

GLENROY

- 58 properties at risk of flooding (over 30cm depth) in a 1% AEP event
- 11 properties at risk of flooding (over 30cm depth) in a 5% AEP event
- 0 properties at risk of flooding (over 30cm depth) in a 20% AEP event

MORELAND MSFEP
Broadmeadows Unit

COBURG

- 216 properties at risk of flooding (over 30cm depth) in a 1% AEP event
- 143 properties at risk of flooding (over 30cm depth) in a 5% AEP event
- 53 properties at risk of flooding (over 30cm depth) in a 20% AEP event

Westbreen Creek
4 km

Melville Main Drain
5 km

BRUNSWICK WEST

- 334 properties at risk of flooding (over 30cm depth) in a 1% AEP event
- 219 properties at risk of flooding (over 30cm depth) in a 5% AEP event
- 54 property at risk of flooding (over 30cm depth) in a 20% AEP event

Arden St Drain

Moonee Ponds Creek at Flemington

- Station No. 229643A
- Location: Delhi Court, Travancore
- Historical Flood Level: 2.61m (3rd February 2005)
- Historical Flood Level: 3.13m (1st June 2013)
- 1% AEP Flood Level: 3.20m



NORTH MELBOURNE
Langford Street, Gracie Street and surrounding streets at risk of flooding

KENSINGTON

Stubbs Street, Bent Street and surrounding streets at risk of flooding - A number of council operated drainage pumping stations located either side of creek to help with drainage

DOCKLANDS

North Wharf

- Station No. 586182
- Location: North Wharf, Docklands



MELBOURNE MSFEP
Footscray & Port Phillip Units

← **Yarra River**
See Yarra River (Lower) Catchment Schematic

Yarra River at Southbank

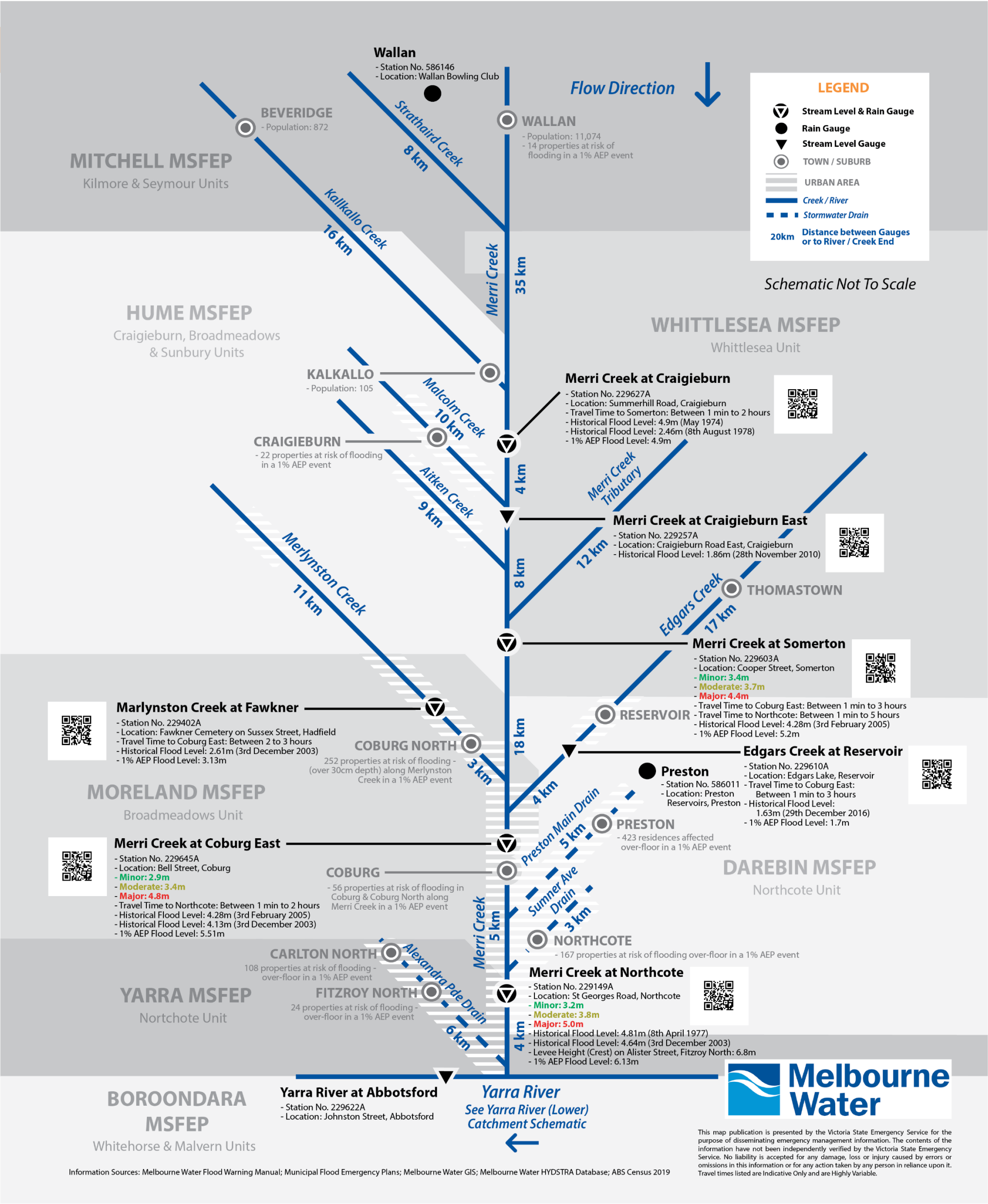
- Station No. 229663A
- Location: Spencer Street, Southbank
- Historical Flood Level: 1.36m (3rd February 2005)
- 1% AEP Flood Level: 2.1m

Information Sources: Melbourne Water Flood Warning Manual; Municipal Flood Emergency Plans; Melbourne Water GIS; Melbourne Water HYDSTRA Database; ABS Census 2019



Merri Creek Catchment Schematic

Version 7 - March 2024



Appendix G – Severe weather (flood and storm) events

Overview

Merri-bek is susceptible during severe weather events because of a combination of its undulating terrain, mature trees in close proximity to properties and wind exposed properties. Storm events the City of Merri-bek may be subject to include wind storms, dust storms, hailstorms, heavy rain leading to flash flooding and thunderstorms (including lightning activity). There have also been isolated occurrences of atmospheric downbursts/microburst in adjacent municipalities.

Older homes may be more susceptible to damage, as can properties undergoing development and renovation. Construction works can interfere and excavations can interfere with natural drainage or stability of existing trees. Blocked drains and pits, or drainage systems that may be insufficiently sized for the level of development in the City of Merri-bek also contribute to the effects of storm activity.

Severe storm activity could result in injuries and increase in road accidents. Damaging wind events will tend to lead to trees down, with damage to the built and natural environment. Obstructions across roads could disrupt services, affect community functioning and have great potential for road traffic delays. Infrastructure near waterways, such as pedestrian bridges or their approaches may become damaged either directly or from debris that has been washed into the current. There are 52 foot bridges within Merri-bek that may be impacted in a 10% AEP event or above.

This Appendix uses VICSES data to display areas at risk from severe weather events.

Severe Weather RFAs

VICSES records requests for assistance made by the public during severe weather events. Additional calls may have been made directly to Council during these events. Table G1 below is a breakdown of requests by suburb and damage type during the period July 2009 to November 2023 in relation to severe weather and storm events.

VICSES Requests for Assistance (July 2009 to November 2023)							
Suburb	Building Damage	Flooding	Rescue	Tree Down	Tree Down Traffic Hazard	Other*	Total
Brunswick	278	52	10	171	105	25	641
Brunswick East	100	23	2	61	35	7	228
Brunswick West	126	29	2	103	57	11	328
Coburg	277	41	11	239	124	24	716
Coburg North	76	29	8	71	37	5	226
Fawkner	129	43	7	80	110	15	384
Fitzroy North (part)	8	2	7	6	0	1	24
Glenroy	255	58	5	188	104	23	633
Gowanbrae	22	7	3	12	4	2	50
Hadfield	89	31	2	43	29	7	201
Oak Park	56	21	2	60	36	9	184
Pascoe Vale	199	63	5	134	74	12	487
Pascoe Vale South	91	14	3	90	47	10	255
Tullamarine (part)	1	0	0	3	3	0	7

Table G1 – Breakdown of severe weather RFAs received by VICSES Fawkner Unit by suburb

Assist Agency, Fence Down, Landslide, Loose Debris/Objects, Sandbag Request and Incident Other

Note that RFAs captured are those that occurred in conjunction with storm/ severe weather activity. Single incident RFAs that have occurred in calm weather have not been included.

Table G2 is a breakdown of requests for assistance by year and damage type. High figures during 2011 were the result of an intense storm with large hail on Christmas Day 2011 that moved across the north west metropolitan suburbs causing significant building damage and some flooding issues. Severe wind events in August 2013, October 2013 and June 2014 led to many RFAs for building damage and tree down related issues, which lead to secondary traffic issues as a result of trees across roads. Most recently, a widespread high wind event in October 2016 and July 2017 passed though Melbourne causing road closures, building damage, power outages, traffic congestion and public transport issues. Heavy rain events in December 2017 lead to building damage and issues with flooding of properties and roads.

VICSES Request for Assistance (July 2009 – November 2023)							
Year	Building Damage	Flooding	Rescue	Tree Down	Tree Down Traffic Hazard	Other*	Total
2009	92	6	0	42	15	0	155
2010	119	36	1	53	35	6	250
2011	177	72	6	63	39	15	372
2012	80	7	5	75	39	9	215
2013	158	17	9	186	114	18	502
2014	134	11	4	64	46	13	272
2015	75	5	6	62	23	5	176
2016	181	24	6	104	47	11	373
2017	154	14	3	67	51	15	304
2018	89	27	1	76	39	8	240
2019	73	12	3	82	62	15	247
2020	85	11	7	112	75	5	295
2021	150	85	9	202	96	9	551
2022	103	58	0	51	51	10	273
2023	37	28	0	25	41	13	144

Table G2 – Breakdown of severe weather requests for assistance received by VICSES Fawkner Unit within City of Merri-bek by year

*Assist Agency, Fence Down, Landslide, Loose Debris/Objects, Sandbag Request and Incident Other