

Frankston Municipality

OFFICIAL

Storm and Flood Emergency Plan

A Complementary Plan of the Frankston
Municipal Emergency Management Plan

For the Frankston Municipality
And
VICSES Unit Frankston

Version 4.5
Reviewed March 2023



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Electronic Distribution List

Issue To:		Date
Role	Organisation	
Emergency Management Unit	Ambulance Victoria	
Flood Warning Manager	Bureau of Meteorology (Flood Warning)	
Commander	CFA – Frankston Fire Station	
Assistant Chief Fire Officer	CFA – District 8 Headquarters	
District Manager	DEECA District Office	
Manager Emergency Management	Department of Families, Fairness and Housing	
Regional Emergency Management Officer	Department of Transport (VicRoads)	
Commander	Fire Rescue Victoria	
Assistant Chief fire Officer	Fire Rescue Victoria	
MEMPC Committee Executive Officer	Frankston City Council	
Council Office Copy	Frankston City Council	
MEMPC Committee Chair	Frankston City Council	
MEMO (Municipal Emergency Management Officer)	Frankston City Council	
Deputy MEMO	Frankston City Council	
MRM (Municipal Recovery Manager)	Frankston City Council	
Deputy MRM	Frankston City Council	
Assistant MRM	Frankston City Council	
MECC Centre Manager	Frankston City Council	
Deputy MECC Centre Manager	Frankston City Council	
Assistant MECC Centre Manager	Frankston City Council	
Municipal Building Surveyor	Frankston City Council	
CEO (or council delegate)	Frankston City Council	
Environmental Health Coordinator	Frankston City Council	
BIT Manager	Frankston City Council	
BIT Coordinator	Frankston City Council	
Director Communities	Frankston City Council	
Director Corporate Development	Frankston City Council	
Director City Development	Frankston City Council	
Team Leader Hydrology & Flood Warnings	Melbourne Water	
Manager Compliance and Quality	South East Water	
Manager Emergency Services	United Energy UED Network	
MERC (Carrum Downs Police Station)	Victoria Police	
Deputy MERC (Frankston Police Station)	Victoria Police	

Assistant MERC (Frankston Police Station)	Victoria Police	
RERC	Victoria Police	
REMI	Victoria Police	
VICSES Controller	VICSES – Frankston Unit	
ROEM	VICSES Central Region Headquarters	

Document Transmittal Form / Amendment Certificate

This Municipal Storm and Flood Emergency Plan (MSFEP) will be amended, maintained and distributed as required by VICSES in consultation with the Frankston Municipal Emergency Planning Committee (MEMPC)

Suggestions for amendments to this Plan should be forwarded to VICSES Central Office- Mulgrave Unit 6, 3–5 Gilda Court, Mulgrave VIC 3170 .Email: central@ses.vic.gov.au

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

Amendment Number	Date of Amendment	Amendment Entered By	Summary of Amendment
Issue date of Flood Emergency Plan -			
2.0	30/06/2015	Ross Butler	Update of Appendix A, B, C, F and addition of Appendix G
3.0	08/08/2017	Gerry Sheridan	Update legislative references, acronyms, inclusion of operational information
4.0	31/12/2020	Ross Butler and Jule Syme	Application of new template. Updated parts of the body as well as Appendices A, B, C, F and G. . Changes and edits to accommodate the <i>Emergency Management Legislation Amendment Act 2018</i> (EMLA Act) that amended the <i>Emergency Management Act 2013</i> (EM Act 2013).
4.1	27/08/2021	Ross Butler	Edits based on FCC feedback
5	29/06/2022	Jule Syme & Ross Butler	Application of new template. Updated parts of the body as well as Appendices A, B, C, F & G. Changes and edits for standardisation and to accommodate the <i>Emergency Management Legislation Amendment Act 2018</i> (EMLA Act) that amended the <i>Emergency Management Act 2013</i> (EM Act 2013).
5.1	29/03/2023	David Goldfinch	Amendment to complementary plan of the Frankston MEMP

This Plan will be maintained on the VICSES website (ses.vic.gov.au/plan-and-stay-safe/flood-guides/Frankston-city-council) and referenced on the Frankston City Council website (Frankston.vic.gov.au).

List of Abbreviations & Acronyms

The following abbreviations and acronyms are used in the Plan:

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

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 significant rain event.
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 10 year ARI in commercial/industrial. For Melbourne Water catchment areas this is for all other ARIs up to the 100 year ARI.
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, floodways, waterway improvements, water sensitive urban design, integrated water management systems and environment protection measures.
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

This Municipal Storm and Flood Emergency Plan (MSFEP) has been prepared by the Victorian State Emergency Service pursuant to Section 20 of the Emergency Management Act 1986 (as amended).

This MSFEP is a complementary plan to the Frankston Municipal Emergency Management Plan (MEMP). It is consistent with the State Emergency Management Plan (SEMP), State Flood Emergency Plan and State Storm Emergency Plan (sub-plans of the now superseded State Emergency Response Plan and transitioned to be sub-plans of the SEMP).

It is also consistent with the Victoria State Emergency Service (VICSES) Central Region Storm and Flood Emergency Plans and the Victorian Floodplain Management Strategy and takes into account the outcomes of the Community Emergency Risk Assessment (CERA) process undertaken by the Frankston MEMPC

Minor and administrative amendments will be made to this MSFEP from time to time without representing the Plan to the MEMPC. Any major structural or policy changes will be considered before adoption.

1.2 Purpose and Scope of this Storm and Flood Emergency Plan

The purpose of this MSFEP is to detail arrangements agreed for the planning, preparedness/prevention, response and recovery from flood incidents within the Frankston Municipality

As such, the scope of the Plan is to:

- Identify the storm and flood risk to the Frankston Municipality
- Support the implementation of measures to minimise the causes and impacts of storm and flood incidents within the Frankston Municipality
- Detail Response and Recovery arrangements including preparedness, incident management, command and control;
- Identify linkages with Local, Regional and State emergency and wider planning arrangements with specific emphasis on those relevant to storm and flood.

1.3 Municipal Storm and Flood Planning Committee

Membership of the Frankston MSFPC is comprised of representatives from the following agencies and organisations:

- Regional Officer Emergency Management (Chair)
- VICSES – Unit Controller/delegate and
- Frankston City Council
- Victoria Police – Municipal Emergency Response Coordinator (MERC)
- Catchment Management Authority as required
- Department of Health (DH) as required
- Department of Families, Fairness and Housing (DFFH) as required
- Water authorities as required
- Bureau of Meteorology (BOM) as required
- Other agencies as required

1.4 Responsibility for Planning, Review & Maintenance of this Plan

This MSFEP must be maintained in order to remain effective. This Plan must be assured, approved and published every three years, or more frequently if required.

VICSES through the MEMPC has responsibility for preparing, reviewing, maintaining and distributing this plan. The MSFPC will meet as required.

The plan should be reviewed and where necessary, arrangements and information contained in it should be amended:

- Following any new flood or stormwater drainage studies
- Following a change in non-structural and/or structural flood mitigation measures
- After the occurrence of a significant storm and/or flood event within the municipality

Part 2. BEFORE: Prevention/Preparedness arrangements

2.1 Community Awareness for all Types of Storms and Flooding

This Plan will be published and maintained on the VICSES website. This will occur following any updates and amendments and in accordance with assurance, approval and publishing requirements.

Details of this MSFEP will be released to the community through local media, VICSES FloodSafe and StormSafe programs and websites (VICSES and the Municipality) upon consent of Frankston MEMPC.

VICSES, with the support of Frankston City Council and Melbourne Water, will coordinate community education programs for storm and flooding within the municipality (i.e., Local Flood Guides and public events). Engagement will include raising awareness about the projected impacts on the frequency and intensity of flood and storm events and what actions can be taken to minimise these impacts.

Community engagement programs to support this Plan may be developed in conjunction with the local VICSES unit. VICSES Frankston Unit may lead the delivery of programs with support from Frankston City Council and VICSES Central Region.

2.2 Structural Flood Mitigation Measures

Refer to **Appendix C** for detailed information of structural flood mitigation measures.

2.3 Non-structural Flood Mitigation Measures

2.3.1 Exercising the Plan

Arrangements for exercising this Plan will be at the discretion of VicSES. This Plan should be regularly exercised, (preferably on an annual basis and reviewed after a significant event).

2.3.2 Storm and Flood Warning

Arrangements for storm and flood warning are contained within the State Flood and Storm Emergency Plan and State Flood Emergency Plan (see <https://www.ses.vic.gov.au/em-sector/vicses-emergency-plans>) and the SEMP and on the BoM website (see <http://www.bom.gov.au>).

Specific details of local storm and flood warning system arrangements are provided in **Appendix E**.

2.3.3 Local Knowledge

There are no official community observers within the Frankston municipality however local knowledge is incorporated into this plan through consultation with local response agencies.

Previous event history and likely operational considerations are noted in the Flood Intelligence Cards in **Appendix C**. In line with the VICSES Local Knowledge Policy, reviews of this plan will be undertaken with input from multiple local sources to ensure appropriate local knowledge can be captured before, during and after incidents.

Part 3. DURING: RESPONSE ARRANGEMENTS

3.1 Introduction

3.1.1 Activation of Response

Storm and flood response arrangements may be activated by the VICSES Regional Duty Officer (RDO), Regional Agency Commander (RAC) or Incident Controller (IC).

The VICSES RDO, RAC or IC will activate agencies as required and documented in the VICSES Central Region Storm and Flood Emergency Plans, the State Storm Emergency Plan and the State Flood Emergency Plan (ses.vic.gov.au/about-us/state-and-regional-emergency-plans).

3.1.2 Responsibilities

There are a number of agencies with specific roles that will act in support of VICSES and provide support to the community in the event of a serious storm and/or flood within the Frankston municipality. These agencies will be engaged through the EMT.

The general roles and responsibilities of supporting agencies are as agreed within the Frankston MEMP, SEMP ([Roles and Responsibilities](#)) VICSES Central Region Flood Emergency Plan and State Flood and Storm Emergency Plans.

3.1.3 Municipal Emergency Coordination Centre (MECC)

Where activated, the function, location, establishment and operation of the MECC (or similar coordination centre) will be as detailed in the Frankton MEMP.

Liaison with the MECC will be through the VICSES Central Region RDO/IC or established ICC.

In the event that a MECC is not operating, Frankston City Council MEMO will be contacted.

3.1.4 Escalation

Most storm and/or flood incidents are of local concern and an appropriate response can usually be coordinated using local resources. However, when these resources are exhausted, the Regional and if required, State arrangements provide for further resources to be made available.

3.2 State Emergency Management Priorities

To provide guidance to the Incident Management Team (IMT) and Incident Emergency Management Team (IEMT), the following State emergency Management Priorities shall form the basis of incident action planning processes:

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

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

3.3 The Six C's

Arrangements in this MSFEP must be consistent with the 6 C's detailed in State and Regional Flood and Storm Emergency Plans. For further information, refer to the SEMP

- **Control:** Overall direction of response activity in an emergency, operating horizontally across agencies.
- **Command:** Internal direction of personnel and resources within an agency.
- **Coordination:** Bringing together agencies and resources to ensure effective preparation for response and recovery.
- **Consequence:** Management of the effect of emergencies on individuals, communities, infrastructure and the environment.
- **Communication:** Engagement and provision of information across agencies and proactively with the community around preparation, response and recovery in emergencies.
- **Community Connection:** Understanding and connecting with trusted networks, leaders and communities around resilience and decision making.

Specific details of arrangements for this plan are to be provided in **Appendix C**.

3.3.1 Control

Sections 5 (1) (a) and 5(c) of the *Victoria State Emergency Service Act 2005* detail the authority for VICSES to plan for and respond to flood.

Table 9 of the SEMP, [Roles and Responsibilities](#) identifies VICSES as the Control Agency (CA) for storm and flood. It identifies DEECA as the CA responsible for dam safety as well as water and wastewater service disruption related incidents and other emergencies.

All flood response activities within the Frankston Municipality including those arising from a dam failure or retarding basin/levee bank failure incident will therefore be under the control of the appointed IC or his/her delegated representative.

3.3.2 Incident Controller (IC)

An IC will be appointed by the VICSES (as the CA) to command-and-control available resources in response to a storm and /or flood event on the advice of the Bureau of Meteorology, or other reliable source, that a storm and/or flood event will occur or is occurring. The IC responsibilities are as defined in the SEMP

3.3.3 Incident Control Centre (ICC)

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

Pre-determined Incident Control Centres are located at:

Dandenong ICC (Primary)

Ferntree Gully ICC (Secondary)

Sunshine ICC (Primary)

Woori Yallock ICC (Secondary)**

Burnley ICC (Secondary)**

** to be considered as redundant ICC sites should other ICCs become unavailable or unserviceable. At the time of publishing, arrangements for the use of Burnley ICC were under review.

3.3.4 Divisions and Sectors

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

Divisions and Sectors may be established to assist with the management of storm and flooding within the Municipality.

Predetermined Divisional Command Locations may include:

- Frankston Unit LHQ
- Moorooduc (CFA)

Sector Command locations are allocated on an as needs basis.

3.3.5 Incident Management Team (IMT)

The IC will form an IMT in line with AAIMS principals.

Refer to the SEMP for guidance on IMTs.

3.3.6 Incident Emergency Management Team (IEMT)

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

Organisations required within the IEMT 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.

Refer to the SEMP for guidance on IEMTs.

3.3.7 On Receipt of a Flood Watch / Severe Weather Warning

The VICSES RDO/IC will undertake actions as defined within the flood intelligence cards (**Appendix C**). General considerations by the VICSES RDO/IC will be as follows:

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

3.3.8 On Receipt of the First and Subsequent Storm and/or Flood Warnings

The VICSES RDO, or the IC will undertake actions as defined within the flood intelligence cards (**Appendix C**). General considerations by the VICSES RDO/Incident Controller will be as follows:

- Develop an appreciation of current flood levels and predicted levels. Are floodwaters, rising, peaking or falling?
- Review storm and flood intelligence to assess likely flood consequences. Consider:
 - What areas may be at risk of inundation.
 - What areas may be at risk of isolation.
 - What areas may be at risk of indirect affects as a consequence of power, gas, water, telephone, sewerage, health, transport or emergency service infrastructure interruption.

- What areas may be at risk of building damage.
 - The characteristics of the populations at risk.
- Determine what the at-risk community need to know and do as the storm and/or flood develops.
- Warn the at-risk community ensuring that an appropriate warning and community information strategy is implemented including details of:
 - The current storm and/or flood situation;
 - Storm and/or flood predictions;
 - What the consequences of predicted levels may be;
 - Public safety advice;
 - Who to contact for further information;
 - Who to contact for emergency assistance.
- Liaise with relevant asset owners as appropriate (i.e. water and power utilities).
- Implement response strategies as required based upon storm/or flood consequence assessment.
- Continue to monitor the storm /flood situation – www.bom.gov.au/
- Continue to conduct reconnaissance of low-lying areas.

3.4 Community Information and Warnings

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

Community information and warnings communication methods available include:

- Emergency Alert
- Phone messages (including SMS)
- Radio and Television
- Two-way radio
- Mobile and fixed public address systems
- Sirens
- Verbal Messages (i.e. doorknocking)
- Agency websites, including VicEmergency website
- VicEmergency Hotline
- Variable Message Signs (i.e. road signs)
- Community meetings and connecting to trusted community networks
- Newspapers
- Email
- Newsletters
- Letter drops
- Social media and/or social networking sites (i.e. Twitter and/or Facebook).

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

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

Responsibility for public information, including media briefings, rest with VICSES. Frankston City Council will assist VICSES to warn individuals within the community where practicable.

Other agencies such as CFA, DEECA and VICPOL may also be requested to assist VICSES with the communication of community storm and/or flood warnings.

In cases where severe flash flooding is predicted, dam failure or landslide is likely or flooding necessitating evacuation of communities is predicted, the IC may consider the use of the Emergency Alert System and SEWS.

DFFH will coordinate information regarding public health and safety precautions.

3.5 Media Communication

The IC through the Public Information Unit established at the ICC will manage Media communication. If the ICC is not established the RDO will manage all media communication. Frankston City Council will work with the IC to ensure that consistent and timely messaging occurs.

3.6 Initial Impact assessment (IIA)

An initial impact assessment must be conducted by the CA in accordance with State doctrine and SOPs, to assess and record the extent and nature of damage caused by storm and/or flooding. This information is then used to provide the basis for further needs assessment and recovery planning by council, Department of Health (DH), DFFH and applicable recovery agencies.

The CA is responsible for coordinating the collection, collations and dissemination of IA information on a whole-of government basis during the emergency response. The purpose, function and conduct of IIAs are outlined in the State Flood Emergency Plan. All IIAs should be conducted in accordance with current State Impact assessment doctrine and SOPs.

3.7 Preliminary Deployments

When storm impacts and/or 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 might include emergency service personnel, food items and non-food items such as medical supplies, shelter, assembly areas, relief centres etc. in line with the Frankston MEMP.

3.8 Response to Flash Flooding

Emergency management response to flash flooding should be consistent with the guideline for the emergency management of flash flooding contained within the VICSES Central Region Storm and Flood Emergency Plans and State Storm Emergency Plan and State Flood Emergency Plan.

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

1. Determine if there are barriers to evacuation by considering warning time, safe routes and resources available;

2. Should evacuation be the adopted strategy it must be supported by a public information capability and a rescue contingency plan; Contact MERC who liaises with MEMO and MRM about activating ERC.
3. Where its likely people will become trapped by floodwaters, safety advice needs to be provided to people at risk advising them not to attempt to flee by entering floodwater if they become trapped, and that it may be safer to seek the highest point within the building and to telephone 000 if they require rescue;
4. For buildings known to be structurally un-suitable an earlier evacuation trigger will need to be established (return to step 1 of this cycle).
5. If an earlier evacuation is not possible then specific preparations must be made to rescue occupants trapped in structurally unsuitable buildings either pre-emptively or as those people call for help.
6. Contact MERC and MEMO at the earliest opportunity to allow relief preparation to commence.

Due to the rapid development of flash flooding it will often be difficult, to establish emergency relief centres ahead of triggering the evacuation. This is normal practice, but this is insufficient justification for not adopting evacuation.

Response arrangements for flash flood events are contained in **Appendix C**. Refer to the Vic Roads Website for road closures (<http://alerts.vicroads.vic.gov.au>).

3.9 Evacuation

In Victoria, evacuation from your place of residence is voluntary, however in particular circumstances, legislation provides some emergency services with authority to remove people from areas or prohibit their entry.

The decision to recommend or warn people to prepare to evacuate or to evacuate immediately rests with the IC and where possible the EMT.

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

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

VicPol (or delegate to Australian Red Cross) may take on the responsibility of registering people affected by the emergency (through the Register Find Reunite program) including those who have been evacuated if an ERC is activated.

Refer to Joint Standard Operating Procedure (JSOP) 3.12 Evacuations for major emergencies and the Frankston Relief and Recovery section of the MEMP for guidance on evacuations for flood emergencies. If evacuation is determined as appropriate, Frankston City Council will be notified and collaborative arrangements made accordingly.

Evacuation operations should be consistent with the JSOP on Evacuation (JSOP3.12). Guidelines for best practice for planning evacuations are provided in Australian Institute for Disaster Resilience Handbook 4, available at: <https://knowledge.aidr.org.au/resources/handbook-evacuation-planning/>.

Refer to **Appendix D** of this Plan for detailed evacuation arrangements

3.10 Flood Rescue

VicPol as the designated CA for water rescue and they coordinate rescues undertaken during flood events.

In order to activate water rescue services, VICSES, as the CA for overall flood response, will identify areas at risk of requiring rescue and will notify the OIC of the Water Police Search and Rescue Squad to request pre-deployment of rescue resources to those areas.

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

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

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

3.11 Aircraft Management

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

Air support operations will be conducted under the control of the Incident Controller in line with State Aircraft Unit Policy 01-Air Operations.

3.12 Resupply

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

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

After the impact, agencies may assist with the transport of essential items to isolated communities and assist with logistics functions.

3.13 Essential Infrastructure and Property Protection

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

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

The Frankston City Council maintains a small stock of sandbags for their own municipal infrastructure defence. Supplies are available through the VICSES Regional Headquarters and local hardware suppliers. The IC will determine the priorities related the use of sandbags, which will be consistent with the State Emergency Management priorities and VICSES Sandbagging policy.

If VICSES sandbags are becoming limited in supply, then priority will be given to protection of Essential 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 in consultation with the Catchment Management Authority (CMA), Local Government Area (LGA) and VICPOL and within appropriate approval frameworks.

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

3.14 Disruption to Services

Disruption to services other than essential infrastructure and property can occur in storm and/or flood events. Refer to Appendix D for specific details of likely disruption to services and proposed arrangements to respond to service disruptions in the municipality.

3.15 Levees

Levee owners / operators are responsible for the maintenance, operation and monitoring of their levees. Levee owners / operators must keep the IC informed of levee status and be prepared to provide expert advice to the IC about the design and construction of their levees. In accordance with the State Emergency Management Priorities, the IC may assist levee owners to coordinate resources, both technical and physical, to provide advice and affect temporary repairs to or augmentation of levees.

3.16 Road Closures

Frankston City Council, VicPol and the Department of Transport and Planning (DTP) will carry out their formal functions of road closures. This includes observation and placement of warning signs, roadblocks to its designated local and regional roads, bridges, walking and bike trails. VicPol may liaise with and advise Frankston City Council and DTP of the need to erect warning signs and / or for closure of roads and bridges. DTP are responsible for designated main roads and highways and Frankston City Council is responsible for the designated local and regional road network.

DTP, VicPol and Frankston City Council will communicate community information regarding road closures.

3.17 Dam Spilling / Failure

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

Details of the major dam within the Frankston City Council with potential to cause structural and community damage within the Municipality are contained in **Appendix A**.

Frankston municipality may be impacted by the failure of the Frankston Reservoir (Frankston Re-assessment of Risk, URS June 2010). There are also a number of smaller private dams which could cause damage if they failed.

3.18 Wastewater related Public Health Issues and Critical Sewerage Assets

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

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

It is the responsibility of the Frankston City Council Environmental Coordinator to inspect and report to the MEMO and the ICC on any water quality issues relating to flooding.

General Public Health information and messages are provided by Frankston City Council, DFFH and DH and may contain information that is relevant prior to, during and following an incident. Information may also be provided in sub plans to the MEMP, specific health notifications and, after discussion within the IEMT may be included in Flood Bulletins.

3.19 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.

3.20 After Action Review

VICSES will coordinate the after-action review arrangements of storm and/or flood operations as soon as practical following an event.

All agencies involved in the storm/and or flood incident should be represented at the After-Action Review.

Part 4. AFTER: EMERGENCY RELIEF AND RECOVERY ARRANGEMENTS

4.1 General

Arrangements for emergency relief and recovery from any emergency, including storm/flood incidents within the Frankston municipality are detailed in the MEMP.

4.2 Emergency Relief

The IC determines the need for emergency relief services with advice from the emergency management team (such as IEMT) including the MRM in accordance with the SEMP Relief arrangements. IC's are responsible for ensuring that relief arrangements have been considered and implemented where required under the State Emergency Relief and Recovery Plan. These should be carried out in line with the Frankston MEMP.

The range and type of emergency relief services to be provided in response to a storm/flood event will be dependent upon the size, impact, and scale of the storm/flood. Refer to the SEMP for further information.

Suitable relief facilities identified for use during storm/floods are detailed in **Appendix D** and the MEMP.

Details of the relief arrangements are available in the Frankston MEMP.

4.3 Animal Welfare

Matters relating to the welfare of livestock are to be referred to Department of Jobs, Skills, Industry and Regions (DJSIR).

Matters relating to companion animals will be shared between Council and Royal Society for the Prevention of Cruelty to Animals (RSPCA). Council assists in the support and temporary rehousing of displaced companion animals.

Requests for emergency supply and/or delivery of fodder to stranded livestock or for livestock rescue are to be referred to DJSIR.

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

4.4 Transition from Response to Recovery

VICSES as the CA is responsible for ensuring effective transition from response to recovery.

Transition should be done in consultation with emergency management teams (including IEMT and MRM). Further information about transition is provided in the SEMP and the Frankston MEMP.

APPENDIX A - FLOOD THREATS FOR CITY OF FRANKSTON

General

The municipality of Frankston is located in the southern area of Metropolitan Melbourne along Port Phillip Bay. The Frankston municipality has two distinct morphological zones; that of the Baxter sandstones and old marine sediments uplifted at the Selwyn's fault in the southern portion of the municipality and then that of the sunk-lands that evolved to form the Carrum Lowlands that dominate in the northern portion of the Municipality.

The Carrum Lowlands comprise over 4000 hectares of swamp and alluvial flats that drain to Kananook Creek. Kananook Creek is a creek that has had its channel and valley form established through a number of processes over a long period of time. Essentially Kananook Creek as it is today is the result of many thousands of years of formation by forces of flows from the larger Dandenong and Eumemmerring Creek catchments and that of longshore action along the coast of Port Phillip Bay, which formed a series of parallel dunes along the seaward interface of the Carrum Carrum Swamp. The Carrum Carrum Swamp is part of a geological trough (Figure A1) that is bounded on the north side by a monoclinical fold near Beaumaris and on the south side by Selwyn's Fault near Frankston.

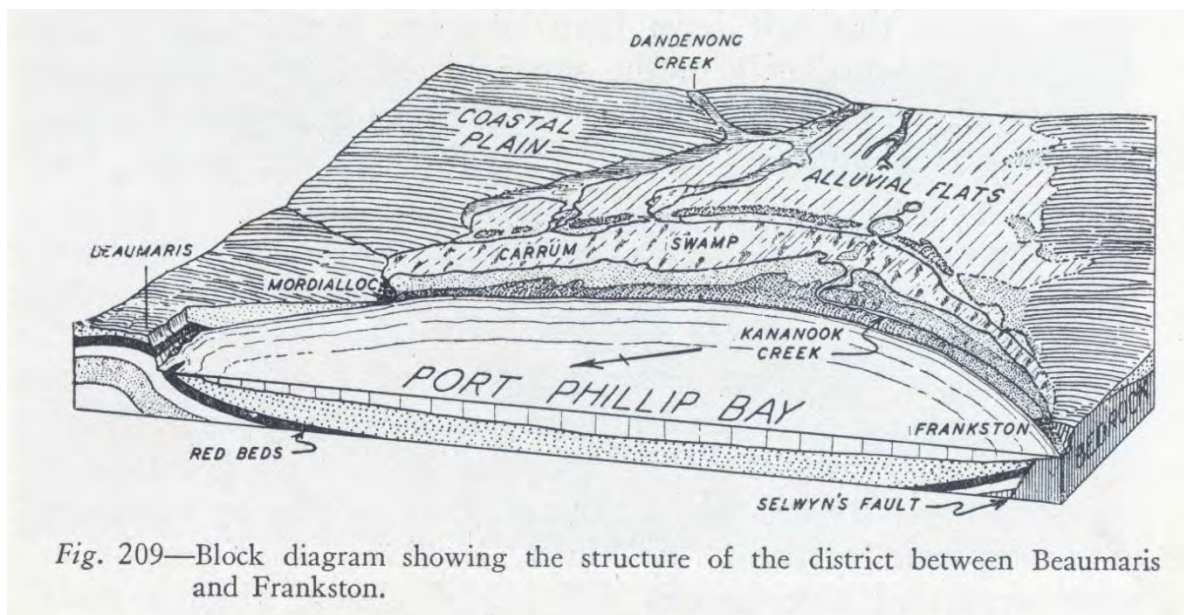


Fig. 209—Block diagram showing the structure of the district between Beaumaris and Frankston.

Figure A1 Diagram of Kananook Creek & Carrum Lowlands Physiography (Sherbourne Hills 1951)

Riverine Flooding

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

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

Flash Flooding and Overland Flows

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

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

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

Tidal Flooding and Storm Surges

Moderate to heavy rainfall, coupled with a high or incoming tide from Port Phillip Bay can exacerbate flooding within the municipality or create areas of flooding in and around the drainage network. Due to the proximity of the Municipality to Port Phillip Bay and its flat terrain, tidal flows from Port Phillip Bay may reduce the capacity of the stormwater drains to discharge runoff back into the bay, while extreme storm events can cause backflow to the point where water surcharges back above ground around the drainage pits and channels. This is most notably seen along Kananook Creek where floodwaters entering from Eel Race Drain, Seaford Wetlands, Skye Rd / Karingal, Lee Street Drain & Sandgate Avenue Drains may backup in Kananook Creek if tide levels from Port Phillip Bay are high.

Description of Major Waterways and Drains

There are three main waterways within the Frankston municipality - Kananook Creek, Boggy Creek and Sweetwater Creek. Their total length is approximately 47.3 km and Map B in **Appendix F** shows their location. Outlined below is a description of the three main waterways.

- Sweetwater Creek is located in the south west corner of the municipality and discharges into Port Phillip Bay. Sweetwater Creek also contains the Frankston Reservoir.
- Boggy Creek starts on the eastern edge of the municipality on the outskirts of Langwarrin and flows to the northwest corner near Patterson Lakes (Kingston municipality). Here it becomes the Eel Race Drain which transfers the water to Kananook Creek which flows parallel to Port Phillip Bay on the western edge of the municipality.
- Kananook Creek discharges into Port Phillip Bay near Frankston CBD. However, in flood events, the majority of flow is diverted through Riviera Outlet north of Seaford.

Below contains an asset list of Waterways and Drain managed by Melbourne Water in Frankston City

Melbourne Water Drains & Waterways	Suburb/s	Melbourne Water Drains & Waterways	Suburb/s
Ballarto Road Drain	Carrum Downs & Skye	Rodds Drain	Skye
Bardia Avenue Drain	Seaford	Sandgate Avenue Drain	Frankston & Frankston South
Baxter East Drain	Frankston South & Langwarrin South	Seaford Lowlands Drain	Seaford
Baxter West Drain	Frankston South	Seaford Wetlands Drain	Seaford
Boggy Creek	Langwarrin	Skye Road / Karingal	Frankston & Seaford
Eastern Contour Drain	Sandhurst & Skye	Skye Road North Drain	Frankston & Langwarrin
Eel Race Creek	Carrum Downs	Skye South Drain	Skye
Eel Race Creek East Branch	Carrum Downs & Sandhurst	Sweetwater Creek	Frankston South
Eel Race Creek North Branch	Carrum Downs	Sweetwater Creek South Branch	Frankston South
Kananook Creek	Seaford & Frankston	Tamarisk Creek	Langwarrin
Langwarrin Drain	Langwarrin	Tamarisk Creek Diversion	Carrum Downs & Frankston North
Langwarrin South Drain	Langwarrin & Langwarrin South	Upper Carrum Downs Drain	Carrum Downs, Sandhurst & Skye
Lathams Road Drain	Carrum Downs & Seaford	Valley Road Drain	Carrum Downs, Langwarrin & Skye
Lee Street Drain	Frankston	Wadsleys Drain	Carrum Downs
Little Boggy Creek	Carrum Downs & Langwarrin	Wells Road Drain	Seaford
Lower Carrum Downs Drain	Carrum Downs	Wells Road Extension Drain	Seaford
Potts Road West Drain	Langwarrin		

Table A1 – Melbourne Water Drains and Waterways within or bordering Frankston City

Historic Storms and Floods

Significant floods (with high flood gauge levels and likely flooding consequences to property and infrastructure) that have occurred within the municipality of Frankston are as follows in the table below. Levels and rain totals in black indicate large-scale impacts to surrounding areas were recorded, whereas grey figures indicate localised impacts if any occurred.

Event	Event Type		Kananook Creek Seaford North (228371A)		Kananook Creek at Seaford (228372A)	Skye Road Retarding Basin at Frankston North (228378A)	
	Wind	Rain	Rainfall at Gauge	Stream / Tide Level	Stream / Tide Level	Rainfall at Gauge	Stream Level
Normal Water Level				0.7m	0.4m – 0.6m		0.20m
Minor Flood Class				1.1m – 1.5m	-		-
Moderate Flood Class				1.1m – 1.5m	-		-
Major Flood Class				1.5m	-		-
16 th October 1983		✓	-	-	0.79m	75mm / 24hrs	3.26m
10 th December 1988		✓	-	-	0.96m	20mm / 2hrs	4.10m
28 th April 1989		✓	-	-	0.78m	38mm / 4hrs	2.93m
18 th July 1990		✓	-	-	0.80m	33mm / 7hrs	2.77m
4 th September 1995	✓		-	1.15m	0.66m	-	0.45m
23 rd June 1996	✓		25mm / 12hrs	1.11m	-	25mm / 14hrs	1.49m
22 nd April 2001	✓	✓	59mm / 15hrs	1.34m	-	57mm / 16hrs	2.05m
3 rd February 2005		✓	104mm / 28hrs	1.17m	1.11m	102mm / 28hrs	2.69m
10 th July 2008	✓		-	-	1.12m	6mm / 4hrs	0.35m
13 th December 2008		✓	55mm / 20hrs	1.09m	0.88m	63mm / 19hrs	2.77m
5 th September 2010	✓		3mm / 22hrs	0.67m	0.48m	3mm / 21hrs	0.29m
31 st October 2010		✓	57mm / 26hrs	1.25m	1.08m	55mm / 28hrs	2.71m
5 th February 2011		✓	80mm / 15hrs	0.90m	1.04m	55mm / 15hrs	3.42m
9 th November 2011		✓	37mm / 8hrs	0.90m	1.00m	50mm / 7hrs	3.22m
26 th November 2011		✓	59mm / 13hrs	1.00m	0.94m	25mm / 9hrs	2.45m
24 th April 2012	✓		57mm / 21hrs	1.00m	0.94m	49mm / 21hrs	2.34m
1 st October 2013	✓		3mm / 6hrs	0.75m	0.70m	4mm / 6hrs	0.96m

Event	Event Type		Kananook Creek Seaford North (228371A)		Kananook Creek at Seaford (228372A)	Skye Road Retarding Basin at Frankston North (228378A)	
	Wind	Rain	Rainfall at Gauge	Stream / Tide Level	Stream / Tide Level	Rainfall at Gauge	Stream Level
Normal Water Level				0.7m	0.4m – 0.6m		0.20m
Minor Flood Class				1.1m – 1.5m	-		-
Moderate Flood Class				1.1m – 1.5m	-		-
Major Flood Class				1.5m	-		-
24 th June 2014	✓		7mm / 2hrs	1.13m	0.95m	6mm / 2hrs	1.28m
13 th July 2016	✓		6mm / 16hrs	1.09m	1.10m	4mm / 15hrs	0.81m
9 th October 2016	✓		4mm / 2hrs	0.68m	0.68m	4mm / 2hrs	1.27m
29 th December 2016		✓	42mm / 4hrs	0.90m	1.01m	35mm / 4hrs	2.62m
5 th February 2017		✓	39mm / 5hrs	0.83m	0.88m	38mm / 5hrs	2.50m
1 st December 2017		✓	31mm / 8hrs	0.82m	0.83m	29mm / 8hrs	2.01m
14 th February 2018	✓		0mm	0.73m	0.73m	0mm	0.12m
18 th March 2018	✓		1mm / 4hrs	0.63m	0.64m	1mm / 2hrs	0.38m
5 th March 2020		✓	55mm / 8hrs	1.08m	1.01m	50mm / 8hrs	3.80m

Table A12 – Selection of Historical Flood Events along the Kananook Creek and Skye / Karingal Waterways

Dam Spilling / Failure

Flooding resulting from failure of the following dams is likely to cause significant structural and community damage within Frankston City. 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.

Note: Baxter Park Dam – FCC and DEECA via Engineering Services, Parks and Environment are undertaking a study and rectification works to address the possible failure of the dam which could cause significant structural and community damage within Frankston City. This is a funded project to be undertaken by Engineering Services and completed end 2022.

Dam	Location	Owner	Dam Capacity	Full Supply Level	Melway Reference
Baxter Park Dam	Frankston South	Frankston City Council	22 ML	67.5m AHD	106 4G
Frankston Reservoir	Frankston South	Parks Victoria	680 ML	77.25m AHD	102 E10

Table A13 – Dams that pose a risk to Frankston City from Dam Failure

Service Reservoirs located within the Municipality are listed below.

Melbourne Water Service Reservoir	Location	Owner	Material	Reservoir Capacity	Melway Reference
Frankston Chlorine Detention Reservoir	Frankston Reservoir, Sweetwater Creek	Melbourne Water	Steel	2.0 ML	102 E9
Frankston Steel Tank	Frankston Reservoir, Sweetwater Creek	Melbourne Water	Steel	53 ML	102 E10

Table A14– Melbourne Water Service Reservoirs in Frankston City

There may be private dams within the municipality, particularly within rural areas, which have not yet been identified for inclusion within this Plan.

APPENDIX B - TYPICAL FLOOD PEAK TRAVEL TIMES

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 (e.g. The first flood after a dry period will travel more slowly than the second flood in a series of floods). Hence, recent flood history, soil moisture and forecast weather conditions all need to be considered when using the following information to direct flood response activities.

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, because of the urban environment found downstream causing floodwaters to enter the waterway quicker than those in a more rural setting upstream, because of tidal influences, or lastly because of the existence of retarding basins upstream.

Typical Travel Times

Location From (gauge)	Location To (gauge)	Typical Travel Time		Comments
KANANOOK CREEK				
Seaford North	Seaford	Between (-2) to 1 hour	Minor – Moderate Flood at Seaford North	
		Unknown	Major Flood at Seaford North	

Table B1 – Typical Flood Travel Times between gauges on Kananook Creek

Historical Travel Times

Flood Event	Location From (gauge)	Location To (gauge)	Flood Peak Travel Time	Flood Class at
KANANOOK CREEK				Seaford North
4 th September 1995	Seaford North	Seaford	1 hour	Minor-Moderate
3 rd February 2005	Seaford North	Seaford	Seaford peaked 2 hours before Seaford North	Minor-Moderate
27 th September 2009	Seaford North	Seaford	Seaford peaked 1 hour before Seaford North	Minor-Moderate
31 st October 2010	Seaford North	Seaford	Seaford peaked 1 hour before Seaford North	Minor-Moderate
5 th July 2011	Seaford North	Seaford	1 hour	Minor-Moderate
24 th June 2014	Seaford North	Seaford	Less than 1 hour	Minor-Moderate

Table B2 – Historical Flood Travel Times between gauges on Kananook Creek

APPENDIX C1 – SEAFORD & FRANKSTON 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 around Frankston and Seaford

Property (Over-Floor Flood Risk)					
Properties	1,586				
Residential	1,165				
Commercial	80				
Industrial	332				
Public Land	9				
Rural	0				
Community Infrastructure					
Child Care / Kindergartens	2	Seaford Heights Preschool; and grounds of Erinwood Preschool			
Community Venues	1	Centro Karingal & Village Cinemas Karingal carparks			
Schools / Colleges	4	Grounds of Seaford North Primary School; of St John's Primary School; of the Belvedere Park Primary School; and of John Paul Catholic College			
Essential Infrastructure					
Major Roads	1	Cranbourne Road, Frankston east of Moorooduc Highway Intersection			
Railway	1	Frankston & Stony Point Railway Line with low level flooding at various points.			
Bus & Tram Routes		770, 771, 778, 779 and 970			
Power Facility	1	Substation on Wright Street, Seaford			
Government Buildings	1	Frankston City Council Seaford Municipal Depot			
Drainage & Water Facilities	32	24 Retarding Basins, 7 Pumping Stations and 1 Tidal Gate			
Levees	6	Levees including Eel Race Drain South Bank Levee (0.8m freeboard above 1% AEP flood level) with potential flooding of ~2,500 properties			
Emergency Services	1	Frankston VICSES Unit LHQ			
Sewerage Facilities	24	Pumping Stations			
Tourism / Recreation					
Trails & Footbridges	3	Coates Walk Pedestrian Bridge; Kananook Creek Walking Trail; Seaford Wetlands Walking Trail			
Government Boundaries					
Local Gov't Areas	1	Frankston	CMA	1	Port Phillip & Westernport
Adjacent LGAs	1	Kingston	CFA District	1	District 08
SES Unit Area	1	Frankston	FRV District	0	

Table C1.1 – Consequence Summary of 1% AEP flood around Frankston and Seaford

Seaford and parts of Frankston are located on the site of the old Carrum Flats; an area of reclaimed marsh and wetlands. Because of this, the terrain is flat and the area sees slow moving flood waters which spread out across streets and properties.

The Eel Race drain delivers stormwater from Langwarrin, Carrum Downs and Bangholme along the City of Frankston’s northern border, to the Seaford Wetlands and Kananook Creek in Seaford. A diversion drain is located on Kananook Creek to discharge a proportion of the flow directly into Port Phillip Bay. Remaining flow will be deposited into the Bay further south in Frankston.

The predominant risk of flooding in the area comes from overland flow from the Seaford Lowlands, Skye / Karingal, Lee Street and Sandgate Drains which all join Kananook Creek and various points. Approximately 3729 properties are at risk of flooding during a 1% AEP event, with 1583 of these at risk of over-floor flooding.

Other risks in the area include the Electrical Sub-station on Wright Street, Seaford which may be flooded during a 2% AEP event; Cranbourne Road, Frankston east of Moorooduc Highway which may need to be closed during a 5% AEP event; and the site of the Frankston VicSES Unit and Frankston City Municipal Depot on McCulloch Street and Buna Avenue respectively may experience flooding during a 2% AEP event.

Gauges and Warnings

Warnings are available for flooding expected along Kananook Creek at Seaford North. All other flood response actions must therefore be driven by rainfall and / or river level observations. Telemetered water level / flood gauges are located at Seaford & Frankston North within the Kananook Creek catchment. See Appendix B for typical flood travel times for Kananook Creek.

Gauge	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Eel Race Drain at Riviera St Culverts, Seaford North	228371A	Pedestrian Crossing along Riviera Street, Seaford	✓	✓	97 D11
Kananook Creek at Seaford Rd, Seaford	228372A	East bank on the North side of Seaford Road bridge	✓		99 E5
Skye Road Retarding Basin at Frankston North	228378A	North side of Skye Road opposite Bokissa Drive, Frankston	✓	✓	99 K12
Patterson River at Patterson Lakes	228383A	Whalers Cove Floodgate, at end of boat ramp & parking area, Patterson Lakes	✓		97 F6

Table C1.2 – Gauges monitoring flood levels for the Eel Race Drain, Kananook Creek & Skye/Karingal catchments.

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.

The Bureau does not issue formal flood warnings for Eel Race Creek or Skye / Karingal Drain due to their rapid response to rainfall. This is due to either to the urban surrounds which quickly direct

stormwater into drains and waterways or the small catchment size. These result in rapid stream rises during thunderstorms and heavy rainfall creating a short lead time for response.

There is currently one Melbourne Water flood warning gauge on Kananook Creek that could be used to assist with public safety through the issue of flood warnings. This is at Seaford North and its flood class levels established are outlined in the table below.

Flood Class Gauge	Creek Flood Class Level		
	Minor - Moderate	Minor - Moderate	Major
Eel Race Drain at Riviera St Culverts, Seaford North	1.1m – 1.5m	1.1m – 1.5m	1.5m

Table C1.3 – Gauges with established Flood Class Levels for Frankston City

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

Area Map of Flood Risk for Frankston and Seaford



Map Produced by VICSES December 2020.

CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
C1. Areas of Flood Risk around Seaford and Frankston

- | | | | | | |
|--|----------------------------------|--|-------------------|--|-------------------------|
| | Waterbody | | Ambulance Station | | Rain Gauge |
| | 1% AEP Flash Flood Extent | | Caravan Park | | Stream Level Gauge |
| | 1% AEP Riverine Flood Extent | | Coast Guard | | Municipal Office |
| | 1% AEP Storm Surge Extent | | Community Centre | | Municipal Depot |
| | Retarding Basin | | Fire Station | | Retail Water Storage |
| | Waterway | | Hospital | | State Emergency Service |
| | Melbourne Water Stormwater Drain | | Police Station | | Power Terminal Station |
| | | | Embankment | | Telephone Exchange |

- LAND USE**
- Residential
 - Commercial and Business
 - Industrial
 - Public Parks / Cemeteries / Recreation
 - Utilities and Local Government Facilities
 - Education
- Boundary for this Appendix

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

Figure C1 – Areas of flood risk around Frankston and Seaford in Frankston City

Properties at Flood Risk

Properties listed in the table below are at risk from flooding Over-Floor. As more intelligence becomes available, this list may grow.

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

Properties at risk from Flooding over-floor in Frankston and Seaford						
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	2	2	Alice Grove	Frankston	Lee Street Drain	Flash
-	4	4	Alice Grove	Frankston	Lee Street Drain	Flash
-	-	6A	Alice Grove	Frankston	Lee Street Drain	Flash
1	1	1	Amber Avenue	Frankston	Skye / Karingal Drain	Flash
3	3	3	Amber Avenue	Frankston	Skye / Karingal Drain	Flash
5	5	5	Amber Avenue	Frankston	Skye / Karingal Drain	Flash
7	7	7	Amber Avenue	Frankston	Skye / Karingal Drain	Flash
9	9	9	Amber Avenue	Frankston	Skye / Karingal Drain	Flash
-	7	7	Arden Court	Seaford	Seaford Lowlands	Flash
8	8	8	Arden Court	Seaford	Seaford Lowlands	Flash
82	82	82	Austin Road	Seaford	Seaford Lowlands	Flash
-	-	2	Baillie Court	Frankston	Lee Street Drain	Flash
4	4	4	Baillie Court	Frankston	Lee Street Drain	Flash
-	5	5	Baillie Court	Frankston	Lee Street Drain	Flash
6	6	6	Baillie Court	Frankston	Lee Street Drain	Flash
-	-	8	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/13	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/13	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/13	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/13	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/13	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	9/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10/15	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	17	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	18	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/20-22	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/20-22	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	3/20-22	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/20-22	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/20-22	Bainbridge Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	4	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	6	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	8	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	10	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	24	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	38	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/40	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/40	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	42	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	44-46	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	48	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	50	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	58-62	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	68	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/72	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/72	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3/72	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/76	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/76	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3/76	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	4/76	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	78	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/80	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/80	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3/80	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/84	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/84	Bardia Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	4	Bardwell Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	6	Bardwell Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	8	Bardwell Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	10	Bardwell Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	1	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	2B	2B	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	3	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	4	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	6	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	7	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	13	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	14	Bayside Grove	Seaford	Seaford Lowlands	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	15	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	16	16	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	18	18	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	19	19	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	20	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	21A	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	22	22	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	23	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	24	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	25	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	26	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	27	27	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	28	28	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	29	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	31	31	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	33	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	35	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	37	37	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	-	39	Bayside Grove	Seaford	Seaford Lowlands	Flash
1/41	1/41	1/41	Bayside Grove	Seaford	Seaford Lowlands	Flash
2/41	2/41	2/41	Bayside Grove	Seaford	Seaford Lowlands	Flash
3/41	3/41	3/41	Bayside Grove	Seaford	Seaford Lowlands	Flash
43	43	43	Bayside Grove	Seaford	Seaford Lowlands	Flash
-	35-39	35-39	Beach Street	Frankston	Lee Street Drain	Flash
41-45	41-45	41-45	Beach Street	Frankston	Lee Street Drain	Flash
-	47	47	Beach Street	Frankston	Lee Street Drain	Flash
53	53	53	Beach Street	Frankston	Lee Street Drain	Flash
53A	53A	53A	Beach Street	Frankston	Lee Street Drain	Flash
53B	53B	53B	Beach Street	Frankston	Lee Street Drain	Flash
-	53C	53C	Beach Street	Frankston	Lee Street Drain	Flash
53D	53D	53D	Beach Street	Frankston	Lee Street Drain	Flash
53E	53E	53E	Beach Street	Frankston	Lee Street Drain	Flash
53F	53F	53F	Beach Street	Frankston	Lee Street Drain	Flash
53G	53G	53G	Beach Street	Frankston	Lee Street Drain	Flash
59-63	59-63	59-63	Beach Street	Frankston	Lee Street Drain	Flash
1/65-67	1/65-67	1/65-67	Beach Street	Frankston	Lee Street Drain	Flash
2/65-67	2/65-67	2/65-67	Beach Street	Frankston	Lee Street Drain	Flash
3/65-67	3/65-67	3/65-67	Beach Street	Frankston	Lee Street Drain	Flash
-	69	69	Beach Street	Frankston	Lee Street Drain	Flash
69	69	69	Beach Street	Frankston	Lee Street Drain	Flash
-	-	1/73-75	Beach Street	Frankston	Lee Street Drain	Flash
-	-	2/73-75	Beach Street	Frankston	Lee Street Drain	Flash
-	-	3/73-75	Beach Street	Frankston	Lee Street Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	4/73-75	Beach Street	Frankston	Lee Street Drain	Flash
-	-	5/73-75	Beach Street	Frankston	Lee Street Drain	Flash
77	77	77	Beach Street	Frankston	Lee Street Drain	Flash
79	79	79	Beach Street	Frankston	Lee Street Drain	Flash
-	-	81	Beach Street	Frankston	Lee Street Drain	Flash
-	-	83	Beach Street	Frankston	Lee Street Drain	Flash
-	91	91	Beach Street	Frankston	Lee Street Drain	Flash
-	93	93	Beach Street	Frankston	Lee Street Drain	Flash
1/102	1/102	1/102	Beach Street	Frankston	Lee Street Drain	Flash
2/102	2/102	2/102	Beach Street	Frankston	Lee Street Drain	Flash
104	104	104	Beach Street	Frankston	Lee Street Drain	Flash
-	134	134	Beach Street	Frankston	Lee Street Drain	Flash
-	136-138	136-138	Beach Street	Frankston	Lee Street Drain	Flash
-	-	139	Beach Street	Frankston	Lee Street Drain	Flash
-	141	141	Beach Street	Frankston	Lee Street Drain	Flash
-	143	143	Beach Street	Frankston	Lee Street Drain	Flash
145	145	145	Beach Street	Frankston	Lee Street Drain	Flash
147	147	147	Beach Street	Frankston	Lee Street Drain	Flash
149	149	149	Beach Street	Frankston	Lee Street Drain	Flash
-	-	151-153	Beach Street	Frankston	Lee Street Drain	Flash
-	158	158	Beach Street	Frankston	Lee Street Drain	Flash
-	-	2	Benton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
53	53	53	Bokissa Drive	Frankston	Skye / Karingal Drain	Flash
-	-	24	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	38	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	40	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	42	42	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	44	44	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	46	46	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	48	48	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	58	58	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	60	60	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	62	62	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	85	85	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	92	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	94	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
96	96	96	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
98	98	98	Bondi Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	1	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	9	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	27	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	31	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	33	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/34	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/34	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/34	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/34	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	35	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	37	Boonong Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2	Bragge Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	8-10	Bragge Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	14	Bragge Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	16	Bragge Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	19	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	21	21	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	37	37	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	38	38	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	40	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	45	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	47	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	49	49	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	51	51	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	53	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	55	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	62	62	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	63	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	64	64	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	65	65	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	67	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
68	68	68	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	69	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
70	70	70	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
72	72	72	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
74	74	74	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
76	76	76	Brooklyn Avenue	Frankston	Sandgate Avenue Drain	Flash
3/63	3/63	3/63	Brunel Road	Seaford	Wells Road Drain	Flash
4/63	4/63	4/63	Brunel Road	Seaford	Wells Road Drain	Flash
5/63	5/63	5/63	Brunel Road	Seaford	Wells Road Drain	Flash
-	-	5	Buna Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10	Buna Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	12	Buna Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	14	Buna Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	17	Buna Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
1/14	1/14	1/14	Burns Street	Frankston	Sandgate Avenue Drain	Flash
2/14	2/14	2/14	Burns Street	Frankston	Sandgate Avenue Drain	Flash
15	15	15	Cambridge Street	Frankston	Sandgate Avenue Drain	Flash
-	17	17	Cambridge Street	Frankston	Sandgate Avenue Drain	Flash
-	-	1/1-7	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/1-7	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/1-7	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	9/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10/2	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/3	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/3	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/3	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/3	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/3	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/3	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/3	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/7	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/7	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/7	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/8	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/8	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/8	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/8	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/8A	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/8A	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/8A	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/8A	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/9	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/9	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/9	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/10	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/10	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/10	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/10	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	12	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/14	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/14	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/14	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/14	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/16	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/16	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/16	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/16	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/16	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/18	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/18	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/18	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/18	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/18	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/20	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/20	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/20	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/20	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/20	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/22-24	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/22-24	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/22-24	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/22-24	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/22-24	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/23-25	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/23-25	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/23-25	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/23-25	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/27-29	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/27-29	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/27-29	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/27-29	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/27-29	Carder Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	9	9	Casale Court	Frankston	Lee Street Drain	Flash
-	-	12	Catherine Parade	Frankston	Lee Street Drain	Flash
14-16	14-16	14-16	Catherine Parade	Frankston	Lee Street Drain	Flash
-	21	21	Catherine Parade	Frankston	Lee Street Drain	Flash
-	-	1/25	Catherine Parade	Frankston	Lee Street Drain	Flash
-	-	2/25	Catherine Parade	Frankston	Lee Street Drain	Flash
-	-	23	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	24	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	25	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	27	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	29	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	31	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	33	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	35	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	38	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	40	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	42	Claude Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Cooba Place	Frankston	Lee Street Drain	Flash
-	-	1	Coogee Avenue	Frankston	Sandgate Avenue Drain	Flash
-	3	3	Coogee Avenue	Frankston	Sandgate Avenue Drain	Flash
80	80	80	Cranbourne Road	Frankston	Lee Street Drain	Flash
86	86	86	Cranbourne Road	Frankston	Lee Street Drain	Flash
87	87	87	Cranbourne Road	Frankston	Lee Street Drain	Flash
-	-	111	Cranbourne Road	Frankston	Lee Street Drain	Flash
-	119A	119A	Cranbourne Road	Frankston	Lee Street Drain	Flash
-	-	9	Crathie Court	Frankston	Sandgate Avenue Drain	Flash
-	-	10	Crathie Court	Frankston	Sandgate Avenue Drain	Flash
-	1/11	1/11	Cumberland Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	-	2/11	Cumberland Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	-	21-23	Cumberland Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	1/32	1/32	Cumberland Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	2/32	2/32	Cumberland Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
34	34	34	Cumberland Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	11	11	Dandenong Road	Frankston	Lee Street Drain	Flash
13	13	13	Dandenong Road	Frankston	Lee Street Drain	Flash
-	-	2/15-17	Dandenong Road	Frankston	Lee Street Drain	Flash
-	-	3/15-17	Dandenong Road	Frankston	Lee Street Drain	Flash
-	-	4/15-17	Dandenong Road	Frankston	Lee Street Drain	Flash
-	-	5/15-17	Dandenong Road	Frankston	Lee Street Drain	Flash
-	-	6/15-17	Dandenong Road	Frankston	Lee Street Drain	Flash
-	-	21	Dandenong Road	Frankston	Lee Street Drain	Flash
-	23	23	Dandenong Road	Frankston	Lee Street Drain	Flash
-	-	78	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	80	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	82	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	86-88	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	90-92	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	94-98	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	35/106	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	36/106	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	37/106	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	-	38/106	Dandenong Road West	Frankston	Skye Rd / Karingal Drain	Flash
-	9	9	Darius Avenue	Frankston	Lee Street Drain	Flash
11	11	11	Darius Avenue	Frankston	Lee Street Drain	Flash
13	13	13	Darius Avenue	Frankston	Lee Street Drain	Flash
-	-	1B	Deane Street	Frankston	Lee Street Drain	Flash
3	3	3	Deane Street	Frankston	Lee Street Drain	Flash
-	-	5	Deane Street	Frankston	Lee Street Drain	Flash
-	27	27	Deane Street	Frankston	Lee Street Drain	Flash
-	1/29	1/29	Deane Street	Frankston	Lee Street Drain	Flash
-	2/29A	2/29A	Deane Street	Frankston	Lee Street Drain	Flash
-	2/29	2/29	Deane Street	Frankston	Lee Street Drain	Flash
-	3/29	3/29	Deane Street	Frankston	Lee Street Drain	Flash
3/29A	3/29A	3/29A	Deane Street	Frankston	Lee Street Drain	Flash
-	-	4/29	Deane Street	Frankston	Lee Street Drain	Flash
-	4/29A	4/29A	Deane Street	Frankston	Lee Street Drain	Flash
-	-	5/29	Deane Street	Frankston	Lee Street Drain	Flash
2/31	2/31	2/31	Deane Street	Frankston	Lee Street Drain	Flash
3/31	3/31	3/31	Deane Street	Frankston	Lee Street Drain	Flash
6/33	6/33	6/33	Deane Street	Frankston	Lee Street Drain	Flash
7/33	7/33	7/33	Deane Street	Frankston	Lee Street Drain	Flash
8/33	8/33	8/33	Deane Street	Frankston	Lee Street Drain	Flash
-	-	9/33	Deane Street	Frankston	Lee Street Drain	Flash
-	-	10/33	Deane Street	Frankston	Lee Street Drain	Flash
-	-	11/33	Deane Street	Frankston	Lee Street Drain	Flash
-	-	14	Devereaux Court	Frankston	Lee Street Drain	Flash
-	-	11	Donald Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1	Douglas Grove	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5/2	Douglas Grove	Frankston	Skye Rd / Karingal Drain	Flash
-	-	6/2	Douglas Grove	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4	Douglas Grove	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5	Douglas Grove	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	9/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10/11	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	9/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	11/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	12/13	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/15	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/15	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/15	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/15	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	17	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	17A	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	18	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	19	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	19A	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	20	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	21	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	23	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	24	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	25	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	26	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	27	Duncan Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Easton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/3	Easton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/3	Easton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/3	Easton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/3	Easton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5	Easton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6	Easton Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	12	12	Ellesmere Court	Frankston	Lee Street Drain	Flash
13	13	13	Ellesmere Court	Frankston	Lee Street Drain	Flash
-	-	7	Elliott Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	9	Elliott Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	11	Elliott Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	13	Elliott Street	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	15	Elliott Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	Elsie Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	14	Elsie Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	16	Elsie Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	18	Elsie Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	20	Elsie Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	22	Elsie Avenue	Seaford	Bardia Avenue Drain	Flash
1	1	1	Emora Court	Frankston	Lee Street Drain	Flash
2	2	2	Emora Court	Frankston	Lee Street Drain	Flash
3	3	3	Emora Court	Frankston	Lee Street Drain	Flash
4	4	4	Emora Court	Frankston	Lee Street Drain	Flash
-	-	12	Erskine Street	Frankston	Lee Street Drain	Flash
-	-	31	Evelyn Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	33	Evelyn Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	35	Evelyn Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	39	Evelyn Street	Frankston	Skye Rd / Karingal Drain	Flash
15	15	15	Fingal Drive	Frankston	Skye / Karingal Drain	Flash
-	31	31	Fingal Drive	Frankston	Skye / Karingal Drain	Flash
-	-	2	Finlay Street	Frankston	Lee Street Drain	Flash
25N	25N	25N	Fletcher Road	Frankston	Lee Street Drain	Flash
-	-	25R	Fletcher Road	Frankston	Lee Street Drain	Flash
-	-	25L	Fletcher Road	Frankston	Lee Street Drain	Flash
-	-	25K	Fletcher Road	Frankston	Lee Street Drain	Flash
25O	25O	25O	Fletcher Road	Frankston	Lee Street Drain	Flash
-	-	25J	Fletcher Road	Frankston	Lee Street Drain	Flash
-	-	8	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	12	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	1/43A	1/43A	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	2/43A	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	43B	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	43C	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	45	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	47	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	49	49	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	51	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	53	53	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	55	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	57	Foot Street	Frankston	Sandgate Avenue Drain	Flash
-	-	45	Fortescue Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	69	Fortescue Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	79	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	89	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	93	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	95	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	99	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	101	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	107	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	115-117	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	121	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	174	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	176	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	178	Fortescue Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Frallon Crescent	Frankston	Skye / Karingal Drain	Flash
3	3	3	Frallon Crescent	Frankston	Skye / Karingal Drain	Flash
8	8	8	Frallon Crescent	Frankston	Skye / Karingal Drain	Flash
-	-	10	Frallon Crescent	Frankston	Skye / Karingal Drain	Flash
-	-	38	Franciscan Avenue	Frankston	Lee Street Drain	Flash
-	-	52	Franciscan Avenue	Frankston	Lee Street Drain	Flash
-	-	54	Franciscan Avenue	Frankston	Lee Street Drain	Flash
-	55	55	Franciscan Avenue	Frankston	Lee Street Drain	Flash
56	56	56	Franciscan Avenue	Frankston	Lee Street Drain	Flash
-	58	58	Franciscan Avenue	Frankston	Lee Street Drain	Flash
-	-	60	Franciscan Avenue	Frankston	Lee Street Drain	Flash
-	-	62	Franciscan Avenue	Frankston	Lee Street Drain	Flash
-	1/1	1/1	Franklin Court	Frankston	Lee Street Drain	Flash
-	3/1	3/1	Franklin Court	Frankston	Lee Street Drain	Flash
-	-	12	Franklin Court	Frankston	Lee Street Drain	Flash
144	144	144	Frankston-Dandenong Road	Seaford	Skye Rd / Karingal Drain	Flash
-	148	148	Frankston-Dandenong Road	Seaford	Skye Rd / Karingal Drain	Flash
150	150	150	Frankston-Dandenong Road	Seaford	Skye Rd / Karingal Drain	Flash
164	164	164	Frankston-Dandenong Road	Seaford	Skye Rd / Karingal Drain	Flash
-	168	168	Frankston-Dandenong Road	Seaford	Skye Rd / Karingal Drain	Flash
-	11	11	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	30-36	30-36	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	-	2/44	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	-	3/44	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	-	4/44	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	-	5/44	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	-	47-49	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	50	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	-	145	Frankston-Flinders Road	Frankston	Sandgate Avenue Drain	Flash
-	-	43	Gattinara Drive	Frankston	Lee Street Drain	Flash
5	5	5	Glenelg Avenue	Frankston	Sandgate Avenue Drain	Flash
9	9	9	Glenelg Avenue	Frankston	Sandgate Avenue Drain	Flash
-	18	18	Glenelg Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	1	Glenview Crescent	Frankston	Lee Street Drain	Flash
-	-	3	Glenview Crescent	Frankston	Lee Street Drain	Flash
-	4	4	Glenview Crescent	Frankston	Lee Street Drain	Flash
-	-	5	Glenview Crescent	Frankston	Lee Street Drain	Flash
6	6	6	Glenview Crescent	Frankston	Lee Street Drain	Flash
-	-	8	Glenview Crescent	Frankston	Lee Street Drain	Flash
43	43	43	Golf Links Road	Frankston	Sandgate Avenue Drain	Flash
47	47	47	Golf Links Road	Frankston	Sandgate Avenue Drain	Flash
49	49	49	Golf Links Road	Frankston	Sandgate Avenue Drain	Flash
51	51	51	Golf Links Road	Frankston	Sandgate Avenue Drain	Flash
71	71	71	Golf Links Road	Frankston	Sandgate Avenue Drain	Flash
-	-	2	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	4	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	1/6-10	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	2/6-10	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	7	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	1/12	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	2/12	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	3/12	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	4/12	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	15	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	17	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	1/18	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	2/18	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	3/18	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	19	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	22	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	24	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	26	Govan Street	Seaford	Bardia Avenue Drain	Flash
-	-	18	Grady Court	Frankston South	Sandgate Avenue Drain	Flash
20	20	20	Grady Court	Frankston South	Sandgate Avenue Drain	Flash
22	22	22	Grady Court	Frankston South	Sandgate Avenue Drain	Flash
3	3	3	Grant Avenue	Seaford	Skye Rd / Karingal Drain	Flash
8	8	8	Grant Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial		Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
-	-	1	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	3	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	4	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	5	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	6	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	8-10	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	11	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	12	Gray Street	Seaford	Bardia Avenue Drain	Flash
-	-	12	Guildford Close	Frankston	Sandgate Avenue Drain	Flash
-	14	14	Guildford Close	Frankston	Sandgate Avenue Drain	Flash
-	18	18	Guildford Close	Frankston	Sandgate Avenue Drain	Flash
-	-	6	Gulwa Avenue	Frankston	Lee Street Drain	Flash
-	-	8	Gulwa Avenue	Frankston	Lee Street Drain	Flash
-	-	10	Gulwa Avenue	Frankston	Lee Street Drain	Flash
-	-	23	Gulwa Avenue	Frankston	Lee Street Drain	Flash
-	-	25	Gulwa Avenue	Frankston	Lee Street Drain	Flash
27	27	27	Gulwa Avenue	Frankston	Lee Street Drain	Flash
-	-	1	Hadley Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3	Hadley Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5	Hadley Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	9	Hadley Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	13-15	Hadley Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	26	Hannah Street	Seaford	Skye Rd / Karingal Drain	Flash
-	30	30	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	5/32	5/32	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	-	1/36	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	2/36	2/36	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	3/36	3/36	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	4/36	4/36	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	5/36	5/36	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	-	6/36	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
1/42	1/42	1/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
2/42	2/42	2/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
3/42	3/42	3/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
4/42	4/42	4/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential			Commercial	Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
5/42	5/42	5/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
6/42	6/42	6/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
7/42	7/42	7/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
8/42	8/42	8/42	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
3/46-48	3/46-48	3/46-48	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
4/46-48	4/46-48	4/46-48	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
5/46-48	5/46-48	5/46-48	Hartnett Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
3	3	3	Hastings Road	Frankston	Sandgate Avenue Drain	Flash
-	-	35	Hastings Road	Frankston	Sandgate Avenue Drain	Flash
-	-	12	Heatherhill Road	Frankston	Sandgate Avenue Drain	Flash
14	14	14	Heatherhill Road	Frankston	Sandgate Avenue Drain	Flash
16	16	16	Heatherhill Road	Frankston	Sandgate Avenue Drain	Flash
18	18	18	Heatherhill Road	Frankston	Sandgate Avenue Drain	Flash
18A	18A	18A	Heatherhill Road	Frankston	Sandgate Avenue Drain	Flash
-	4	4	Helvetia Court	Frankston	Sandgate Avenue Drain	Flash
-	6	6	Helvetia Court	Frankston	Sandgate Avenue Drain	Flash
10	10	10	Helvetia Court	Frankston	Sandgate Avenue Drain	Flash
-	12	12	Helvetia Court	Frankston	Sandgate Avenue Drain	Flash
13	13	13	Helvetia Court	Frankston	Sandgate Avenue Drain	Flash
15	15	15	Helvetia Court	Frankston	Sandgate Avenue Drain	Flash
22	22	22	Helvetia Court	Frankston	Sandgate Avenue Drain	Flash
7	7	7	Heversham Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	24-26	24-26	Heversham Drive	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	-	2/12-14	Hill Street	Frankston	Lee Street Drain	Flash
-	-	4/12-14	Hill Street	Frankston	Lee Street Drain	Flash
-	-	6/12-14	Hill Street	Frankston	Lee Street Drain	Flash
-	-	8/12-14	Hill Street	Frankston	Lee Street Drain	Flash
-	-	10/12-14	Hill Street	Frankston	Lee Street Drain	Flash
2/17-19	2/17-19	2/17-19	Hill Street	Frankston	Lee Street Drain	Flash
3/17-19	3/17-19	3/17-19	Hill Street	Frankston	Lee Street Drain	Flash
6/17-19	6/17-19	6/17-19	Hill Street	Frankston	Lee Street Drain	Flash
8/17-19	8/17-19	8/17-19	Hill Street	Frankston	Lee Street Drain	Flash
9/17-19	9/17-19	9/17-19	Hill Street	Frankston	Lee Street Drain	Flash
-	-	10/17-19	Hill Street	Frankston	Lee Street Drain	Flash
11/17-19	11/17-19	11/17-19	Hill Street	Frankston	Lee Street Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial		Industrial	Rural	Public Use
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
12/17-19	12/17-19	12/17-19	Hill Street	Frankston	Lee Street Drain	Flash
13/17-19	13/17-19	13/17-19	Hill Street	Frankston	Lee Street Drain	Flash
1/21-23	1/21-23	1/21-23	Hill Street	Frankston	Lee Street Drain	Flash
3/21-23	3/21-23	3/21-23	Hill Street	Frankston	Lee Street Drain	Flash
4/21-23	4/21-23	4/21-23	Hill Street	Frankston	Lee Street Drain	Flash
5/21-23	5/21-23	5/21-23	Hill Street	Frankston	Lee Street Drain	Flash
-	-	6/21-23	Hill Street	Frankston	Lee Street Drain	Flash
-	-	7/21-23	Hill Street	Frankston	Lee Street Drain	Flash
8/21-23	8/21-23	8/21-23	Hill Street	Frankston	Lee Street Drain	Flash
-	-	12/21-23	Hill Street	Frankston	Lee Street Drain	Flash
-	-	14/21-23	Hill Street	Frankston	Lee Street Drain	Flash
1/25	1/25	1/25	Hill Street	Frankston	Lee Street Drain	Flash
-	2/25	2/25	Hill Street	Frankston	Lee Street Drain	Flash
3/25	3/25	3/25	Hill Street	Frankston	Lee Street Drain	Flash
4/25	4/25	4/25	Hill Street	Frankston	Lee Street Drain	Flash
5/25	5/25	5/25	Hill Street	Frankston	Lee Street Drain	Flash
6/25	6/25	6/25	Hill Street	Frankston	Lee Street Drain	Flash
-	7/25	7/25	Hill Street	Frankston	Lee Street Drain	Flash
98	98	98	Hillcrest Road	Frankston	Lee Street Drain	Flash
1/104	1/104	1/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
3/104	3/104	3/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	-	8/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	9/104	9/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	11/104	11/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	12/104	12/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
13/104	13/104	13/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	14/104	14/104	Hillcrest Road	Frankston	Lee Street Drain	Flash
106	106	106	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	107	107	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	1/108	1/108	Hillcrest Road	Frankston	Lee Street Drain	Flash
2/108	2/108	2/108	Hillcrest Road	Frankston	Lee Street Drain	Flash
-	-	109	Hillcrest Road	Frankston	Lee Street Drain	Flash
110	110	110	Hillcrest Road	Frankston	Lee Street Drain	Flash
111	111	111	Hillcrest Road	Frankston	Lee Street Drain	Flash
1/5	1/5	1/5	Hillcrest Road	Frankston	Sandgate Avenue Drain	Flash
2/5	2/5	2/5	Hillcrest Road	Frankston	Sandgate Avenue Drain	Flash
3/5	3/5	3/5	Hillcrest Road	Frankston	Sandgate Avenue Drain	Flash
3	3	3	Hunt Drive	Seaford	Seaford Lowlands	Flash
-	-	5	Hunt Drive	Seaford	Seaford Lowlands	Flash
-	-	10	Ilma Court	Seaford	Seaford Lowlands	Flash
-	-	1	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
-	-	1/3-5	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/3-5	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/3-5	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4/3-5	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5/3-5	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	6/3-5	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	7	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	9	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	11	Inglis Avenue	Frankston	Skye Rd / Karingal Drain	Flash
4	4	4	Iranda Street	Frankston	Lee Street Drain	Flash
-	6	6	Iranda Street	Frankston	Lee Street Drain	Flash
-	-	1/26	James Street	Frankston	Lee Street Drain	Flash
-	2/26	2/26	James Street	Frankston	Lee Street Drain	Flash
3/26	3/26	3/26	James Street	Frankston	Lee Street Drain	Flash
28	28	28	James Street	Frankston	Lee Street Drain	Flash
29	29	29	James Street	Frankston	Lee Street Drain	Flash
-	31	31	James Street	Frankston	Lee Street Drain	Flash
-	-	42	Johnstone Street	Seaford	Seaford Lowlands	Flash
-	-	27	Joy Street	Frankston	Lee Street Drain	Flash
28	28	28	Joy Street	Frankston	Lee Street Drain	Flash
30	30	30	Joy Street	Frankston	Lee Street Drain	Flash
2	2	2	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
6	6	6	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
7	7	7	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
9	9	9	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
11	11	11	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
13	13	13	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
17	17	17	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
19	19	19	Jubilee Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	4	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	5	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	6	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	7	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	8	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	9	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	10	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	11	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	12	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	13	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
-	-	14	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	15	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	18	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	19	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	20	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	21	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	22	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	23	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	24	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	25	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	26	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	27	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	28	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	29	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/30	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/30	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	31	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	32	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	33	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	34	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	35	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	36	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	36A	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	37	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	38	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	39	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	40	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	41	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	42	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	43	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	44	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	45	Kananook Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	46	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	48	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	50	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	52	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	53	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	54	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	56	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	57	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	59	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	60	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	62	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	63	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	65	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	66	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	68	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	68A	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	69	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	70	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	70A	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	71	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	72	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	74	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	76	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	77	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	78	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	80	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	82	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	84	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	85	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	87	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	89	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	90	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	92	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	93	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	94A	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	95	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/96	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/96	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/96	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	97	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	99	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	100	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	102	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	103	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	104	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	106	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	107	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	108	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	109	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	111	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	112	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/113	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/113	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	116	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	117	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	118	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	119	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	120	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	122	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	124	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	125	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	128	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	132	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	134	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	135	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/136	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/136	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	137	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	139	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	141	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	143	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	145	Kananook Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5	Kandy Court	Frankston	Lee Street Drain	Flash
-	-	1	Karingal Drive	Frankston	Skye / Karingal Drain	Flash
46	46	46	Kenilworth Avenue	Frankston	Lee Street Drain	Flash
-	1/49A	1/49A	Kenilworth Avenue	Frankston	Lee Street Drain	Flash
-	-	3/49A	Kenilworth Avenue	Frankston	Lee Street Drain	Flash
-	-	51	Kenilworth Avenue	Frankston	Lee Street Drain	Flash
-	-	21	Kildare Court	Frankston	Lee Street Drain	Flash
1	1	1	Kintal Court	Frankston	Skye / Karingal Drain	Flash
-	-	1-7	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	4	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	6	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	8	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	9	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	10	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	11	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	12	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	13	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	14	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	15	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	16	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/19-21	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/19-21	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3/19-21	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	4/19-21	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	20	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	24	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	27	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	33	Kirkwood Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	40	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	46	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	54	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	67	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	77	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	88	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	91	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	93	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	95	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	97	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	99	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	100	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/102	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/102	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/102	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	103	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	104	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	105	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	107	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	110	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	112	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	114	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	116	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	118	Kirkwood Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/6	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/6	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	8	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	10	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	12	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	14	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	20	Kitson Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/9	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/9	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	10	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	11	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	8/12-14	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	9/12-14	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	15	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	16A	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	16B	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	17-21	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	22	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	23-29	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	24	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	26	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/30-34	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/30-34	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/30-34	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	31-33	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	35	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	36-38	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	37	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	39	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	41	Kookaburra Street	Frankston	Skye Rd / Karingal Drain	Flash
-	3	3	Lansvale Court	Frankston	Sandgate Avenue Drain	Flash
-	4	4	Lansvale Court	Frankston	Sandgate Avenue Drain	Flash
-	5	5	Lansvale Court	Frankston	Sandgate Avenue Drain	Flash
-	-	6	Lansvale Court	Frankston	Sandgate Avenue Drain	Flash
14	14	14	Leawarra Parade	Frankston	Lee Street Drain	Flash
-	20	20	Leawarra Parade	Frankston	Lee Street Drain	Flash
-	-	22	Leawarra Parade	Frankston	Lee Street Drain	Flash
23	23	23	Leawarra Parade	Frankston	Lee Street Drain	Flash
-	-	24	Leawarra Parade	Frankston	Lee Street Drain	Flash
1	1	1	Lee Street	Frankston	Lee Street Drain	Flash
11	11	11	Lee Street	Frankston	Lee Street Drain	Flash
-	12	12	Lee Street	Frankston	Lee Street Drain	Flash
13	13	13	Lee Street	Frankston	Lee Street Drain	Flash
-	-	16	Lee Street	Frankston	Lee Street Drain	Flash
-	-	18	Lee Street	Frankston	Lee Street Drain	Flash
22	22	22	Lee Street	Frankston	Lee Street Drain	Flash
-	-	9	Lefevre Court	Frankston	Lee Street Drain	Flash
2	2	2	Leighton Court	Frankston	Skye / Karingal Drain	Flash
3	3	3	Leighton Court	Frankston	Skye / Karingal Drain	Flash
4	4	4	Leighton Court	Frankston	Skye / Karingal Drain	Flash
12	12	12	Leighton Court	Frankston	Skye / Karingal Drain	Flash
13	13	13	Leighton Court	Frankston	Skye / Karingal Drain	Flash
-	-	3	Levuka Street	Seaford	Bardia Avenue Drain	Flash
-	-	5	Levuka Street	Seaford	Bardia Avenue Drain	Flash
-	-	7	Levuka Street	Seaford	Bardia Avenue Drain	Flash
-	-	2/15	Levuka Street	Seaford	Bardia Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	4/15	Levuka Street	Seaford	Bardia Avenue Drain	Flash
-	-	27	Levuka Street	Seaford	Bardia Avenue Drain	Flash
-	-	3	Lewis Street	Frankston	Lee Street Drain	Flash
1/4	1/4	1/4	Lewis Street	Frankston	Lee Street Drain	Flash
2/4	2/4	2/4	Lewis Street	Frankston	Lee Street Drain	Flash
3/4	3/4	3/4	Lewis Street	Frankston	Lee Street Drain	Flash
4/4	4/4	4/4	Lewis Street	Frankston	Lee Street Drain	Flash
5/4	5/4	5/4	Lewis Street	Frankston	Lee Street Drain	Flash
6/4	6/4	6/4	Lewis Street	Frankston	Lee Street Drain	Flash
-	1/6	1/6	Lewis Street	Frankston	Lee Street Drain	Flash
5/6	5/6	5/6	Lewis Street	Frankston	Lee Street Drain	Flash
-	1/11	1/11	Lewis Street	Frankston	Lee Street Drain	Flash
-	2/11	2/11	Lewis Street	Frankston	Lee Street Drain	Flash
-	5/11	5/11	Lewis Street	Frankston	Lee Street Drain	Flash
-	6/11	6/11	Lewis Street	Frankston	Lee Street Drain	Flash
-	-	19	Lewis Street	Frankston	Lee Street Drain	Flash
5	5	5	Lingi Court	Frankston	Skye / Karingal Drain	Flash
48	48	48	Lipton Drive	Frankston	Lee Street Drain	Flash
50	50	50	Lipton Drive	Frankston	Lee Street Drain	Flash
52	52	52	Lipton Drive	Frankston	Lee Street Drain	Flash
54	54	54	Lipton Drive	Frankston	Lee Street Drain	Flash
-	56	56	Lipton Drive	Frankston	Lee Street Drain	Flash
-	-	13	Lyster Close	Seaford	Skye Rd / Karingal Drain	Flash
-	-	15	Lyster Close	Seaford	Skye Rd / Karingal Drain	Flash
-	-	17	Lyster Close	Seaford	Skye Rd / Karingal Drain	Flash
-	-	19	Lyster Close	Seaford	Skye Rd / Karingal Drain	Flash
-	-	21	Lyster Close	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Macrosty Court	Frankston	Lee Street Drain	Flash
-	-	9	Macrosty Court	Frankston	Lee Street Drain	Flash
-	-	3	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	5	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	7	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	8	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	10	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	12	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	13	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	15	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	16	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	20	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	22	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	24	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	31	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	33	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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	Mahoney Crescent	Seaford	Bardia Avenue Drain	Flash
-	-	1	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8	Manning Road	Seaford	Skye Rd / Karingal Drain	Flash
-	45	45	Margate Avenue	Frankston	Sandgate Avenue Drain	Flash
-	-	3	Marillac Court	Frankston	Lee Street Drain	Flash
-	1	1	Martha Street	Seaford	Seaford Lowlands	Flash
-	3	3	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	1/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	2/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	3/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	4/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	5/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	6/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	7/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	8/4-10	Martha Street	Seaford	Seaford Lowlands	Flash
-	7	7	Martha Street	Seaford	Seaford Lowlands	Flash
-	11	11	Martha Street	Seaford	Seaford Lowlands	Flash
-	1/12	1/12	Martha Street	Seaford	Seaford Lowlands	Flash
-	2/12	2/12	Martha Street	Seaford	Seaford Lowlands	Flash
-	14	14	Martha Street	Seaford	Seaford Lowlands	Flash
-	16	16	Martha Street	Seaford	Seaford Lowlands	Flash
-	17	17	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	19	Martha Street	Seaford	Seaford Lowlands	Flash
-	21	21	Martha Street	Seaford	Seaford Lowlands	Flash
-	-	2	Martin Street	Seaford	Seaford Lowlands	Flash
-	4	4	Martin Street	Seaford	Seaford Lowlands	Flash
-	-	2	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	14	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	29	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	30	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	31	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/33	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/33	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	35	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	36	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	37	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	39	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	43	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	45	McCulloch Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
10	10	10	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
11	11	11	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
13	13	13	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
-	20	20	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
48	48	48	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
50	50	50	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
52	52	52	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
55	55	55	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
-	60	60	McMahons Road	Frankston	Sandgate Avenue Drain	Flash
-	-	3	McMannis Way	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	McMannis Way	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5	McMannis Way	Seaford	Skye Rd / Karingal Drain	Flash
-	-	12	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	14	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	18	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	19	19	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	21	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	25	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	26	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	27	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	28	28	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	35A	35A	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	35	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	1/37	1/37	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	2/37	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	39	McMurtry Way	Frankston	Sandgate Avenue Drain	Flash
-	-	14	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	16	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	18	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	19	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/20	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/20	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/20	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4/20	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5/20	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	22	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	23	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	25	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	27	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	29	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	31	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	32	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	33	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	35	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	36	Mereweather Avenue	Frankston	Skye Rd / Karingal Drain	Flash
30	30	30	Miles Grove	Seaford	Seaford Lowlands	Flash
-	-	42-44	Miles Grove	Seaford	Seaford Lowlands	Flash
-	-	47-49	Miles Grove	Seaford	Seaford Lowlands	Flash
53	53	53	Miles Grove	Seaford	Seaford Lowlands	Flash
-	63	63	Miles Grove	Seaford	Seaford Lowlands	Flash
71-77	71-77	71-77	Miles Grove	Seaford	Seaford Lowlands	Flash
79-83	79-83	79-83	Miles Grove	Seaford	Seaford Lowlands	Flash
-	-	85	Miles Grove	Seaford	Seaford Lowlands	Flash
-	-	89-93	Miles Grove	Seaford	Seaford Lowlands	Flash
-	-	1	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	14	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	15	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/19	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/19	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	21	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	25	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	25A	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	27-29	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	31-33	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	35	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	37	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	39	Milne Avenue	Seaford	Skye Rd / Karingal Drain	Flash
13	13	13	Mincha Street	Frankston	Sandgate Avenue Drain	Flash
27	27	27	Mincha Street	Frankston	Sandgate Avenue Drain	Flash
-	-	1/35	Molesworth Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/35	Molesworth Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2A	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3A	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	5	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	7	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	9	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	13	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	15	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	17	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	10/19-21	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	11/19-21	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	1/22	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2/22	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	3/22	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	25	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	25A	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	27-29	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	30-34	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	31-33	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	41	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	43	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	45	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	47	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	49	Moresby Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	365-367	Nepean Highway	Frankston	Skye Rd / Karingal Drain	Flash
1	1	1	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
3	3	3	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
5	5	5	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
7	7	7	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
-	9	9	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
-	11	11	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
-	13	13	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
-	-	15	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
-	17	17	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
19	19	19	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
-	21	21	Netherplace Drive	Frankston	Sandgate Avenue Drain	Flash
-	-	1	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/2	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/2	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/4	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/4	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/4	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4/4	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	9	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	11	New Street	Frankston	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	18	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	20-22	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/23	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/23	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/23	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4/23	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5/23	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	6/23	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/24	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/24	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4/24	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5/24	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	6/24	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	7/24	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	8/24	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	26	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	27-31	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	33	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	35	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	37M	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	39	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	40	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	41	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	46-48	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	50-54	New Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	56	New Street	Frankston	Skye Rd / Karingal Drain	Flash
2	2	2	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	-	3	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	7	7	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	-	9	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	-	2/10	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	3/10	3/10	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	4/10	4/10	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	17	17	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	-	19	Nursery Avenue	Frankston	Lee Street Drain	Flash
-	-	11	Olympic Avenue	Frankston	Lee Street Drain	Flash
-	-	13	Olympic Avenue	Frankston	Lee Street Drain	Flash
-	-	15	Olympic Avenue	Frankston	Lee Street Drain	Flash
-	-	17	Olympic Avenue	Frankston	Lee Street Drain	Flash
-	-	20	Olympic Avenue	Frankston	Lee Street Drain	Flash
-	-	12/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	13/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	14/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	17/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	18/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	20/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	21/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	22/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	23/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	24/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	25/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	26/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	27/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	28/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	29/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	30/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	31/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	32/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	33/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	40/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	41/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	42/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	43/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	45/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	46/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	47/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	48/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	49/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	50/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	51/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	52/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	53/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	54/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	55/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	56/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	57/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	58/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	86/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	87/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	88/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	89/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	90/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	91/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	92/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	93/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	94/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	95/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	96/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	98/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	99/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	100/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	101/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	102/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	103/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	104/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	105/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	110/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	111/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	112/1-3	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/5	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/5	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/5	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	11	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	13	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	17	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	19	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/21	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/21	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/21	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	23-25	Overton Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	24	Overton Road	Frankston	Skye Rd / Karingal Drain	Flash
-	-	28	Overton Road	Frankston	Skye Rd / Karingal Drain	Flash
-	1/15	1/15	Oxford Street	Frankston	Sandgate Avenue Drain	Flash
-	2/15	2/15	Oxford Street	Frankston	Sandgate Avenue Drain	Flash
-	22	22	Oxford Street	Frankston	Sandgate Avenue Drain	Flash
-	-	47	Partridge Crescent	Frankston	Lee Street Drain	Flash
58	58	58	Partridge Crescent	Frankston	Lee Street Drain	Flash
-	-	1	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	2	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	6	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	1/7-9	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	2/7-9	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	3/7-9	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	4/7-9	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	5/7-9	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	1/10	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	2/10	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	3/10	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	4/10	Patrick Court	Seaford	Bardia Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
-	-	5/10	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	12	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	1/13	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	2/13	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	14	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	15A	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	1/17	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	2/17	Patrick Court	Seaford	Bardia Avenue Drain	Flash
-	-	18	Patrick Court	Seaford	Bardia Avenue Drain	Flash
1/2-8	1/2-8	1/2-8	Peninsula Boulevard	Seaford	Austin Rd / Excelsior Ave Drain	Flash
2/2-8	2/2-8	2/2-8	Peninsula Boulevard	Seaford	Austin Rd / Excelsior Ave Drain	Flash
4/2-8	4/2-8	4/2-8	Peninsula Boulevard	Seaford	Austin Rd / Excelsior Ave Drain	Flash
5/2-8	5/2-8	5/2-8	Peninsula Boulevard	Seaford	Austin Rd / Excelsior Ave Drain	Flash
6/2-8	6/2-8	6/2-8	Peninsula Boulevard	Seaford	Austin Rd / Excelsior Ave Drain	Flash
7/2-8	7/2-8	7/2-8	Peninsula Boulevard	Seaford	Austin Rd / Excelsior Ave Drain	Flash
8/2-8	8/2-8	8/2-8	Peninsula Boulevard	Seaford	Austin Rd / Excelsior Ave Drain	Flash
-	1/5	1/5	Petrie Street	Frankston	Lee Street Drain	Flash
-	2/5	2/5	Petrie Street	Frankston	Lee Street Drain	Flash
-	-	2	Phillip Street	Frankston	Skye Rd / Karingal Drain	Flash
4	4	4	Phillip Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/9	Phillip Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/9	Phillip Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/9	Phillip Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4	Putney Lane	Frankston	Sandgate Avenue Drain	Flash
-	5	5	Putney Lane	Frankston	Sandgate Avenue Drain	Flash
-	-	7	Putney Lane	Frankston	Sandgate Avenue Drain	Flash
-	-	19	Quamby Avenue	Frankston	Lee Street Drain	Flash
6	6	6	Quandong Court	Frankston	Lee Street Drain	Flash
-	-	11	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	13	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	15	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	17	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	19	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	21	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	23	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	25	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	27	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	31	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	37	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	39	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	41	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
-	-	43	Quinn Street	Seaford	Skye Rd / Karingal Drain	Flash
3	3	3	Raphael Crescent	Frankston	Lee Street Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
5	5	5	Raphael Crescent	Frankston	Lee Street Drain	Flash
-	-	1	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	1/2-4	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	2/2-4	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	3/2-4	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	4/2-4	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	5/2-4	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	3	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	5	Raymond Road	Seaford	Seaford Lowlands	Flash
-	6	6	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	7	Raymond Road	Seaford	Seaford Lowlands	Flash
-	8	8	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	1/10	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	2/10	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	11	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	14	Raymond Road	Seaford	Seaford Lowlands	Flash
-	-	11	Reid Street	Frankston	Sandgate Avenue Drain	Flash
-	1/12	1/12	Reid Street	Frankston	Sandgate Avenue Drain	Flash
-	2/12	2/12	Reid Street	Frankston	Sandgate Avenue Drain	Flash
-	-	13	Reid Street	Frankston	Sandgate Avenue Drain	Flash
1/14A	1/14A	1/14A	Reid Street	Frankston	Sandgate Avenue Drain	Flash
2/14A	2/14A	2/14A	Reid Street	Frankston	Sandgate Avenue Drain	Flash
-	-	1/15	Reid Street	Frankston	Sandgate Avenue Drain	Flash
-	3/15	3/15	Reid Street	Frankston	Sandgate Avenue Drain	Flash
-	-	1/18	Reid Street	Frankston	Sandgate Avenue Drain	Flash
-	-	2/18	Reid Street	Frankston	Sandgate Avenue Drain	Flash
4	4	4	Reservoir Road	Frankston	Lee Street Drain	Flash
-	-	6	Reservoir Road	Frankston	Lee Street Drain	Flash
5/8	5/8	5/8	Reservoir Road	Frankston	Lee Street Drain	Flash
-	-	7/8	Reservoir Road	Frankston	Lee Street Drain	Flash
-	-	8/8	Reservoir Road	Frankston	Lee Street Drain	Flash
9/8	9/8	9/8	Reservoir Road	Frankston	Lee Street Drain	Flash
-	10/8	10/8	Reservoir Road	Frankston	Lee Street Drain	Flash
-	1/9	1/9	Reservoir Road	Frankston	Lee Street Drain	Flash
-	2/9	2/9	Reservoir Road	Frankston	Lee Street Drain	Flash
-	9A	9A	Reservoir Road	Frankston	Lee Street Drain	Flash
16	16	16	Reservoir Road	Frankston	Lee Street Drain	Flash
1/18	1/18	1/18	Reservoir Road	Frankston	Lee Street Drain	Flash
2/18	2/18	2/18	Reservoir Road	Frankston	Lee Street Drain	Flash
3/18	3/18	3/18	Reservoir Road	Frankston	Lee Street Drain	Flash
-	4/18	4/18	Reservoir Road	Frankston	Lee Street Drain	Flash
-	-	5/18	Reservoir Road	Frankston	Lee Street Drain	Flash
6/18	6/18	6/18	Reservoir Road	Frankston	Lee Street Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
7/18	7/18	7/18	Reservoir Road	Frankston	Lee Street Drain	Flash
8/18	8/18	8/18	Reservoir Road	Frankston	Lee Street Drain	Flash
9/18	9/18	9/18	Reservoir Road	Frankston	Lee Street Drain	Flash
-	11/18	11/18	Reservoir Road	Frankston	Lee Street Drain	Flash
-	13/18	13/18	Reservoir Road	Frankston	Lee Street Drain	Flash
15/18	15/18	15/18	Reservoir Road	Frankston	Lee Street Drain	Flash
-	20	20	Reservoir Road	Frankston	Lee Street Drain	Flash
-	-	3/22	Reservoir Road	Frankston	Lee Street Drain	Flash
4/22	4/22	4/22	Reservoir Road	Frankston	Lee Street Drain	Flash
-	6	6	Roberts Street	Frankston	Sandgate Avenue Drain	Flash
-	-	16-18	Roberts Street	Frankston	Sandgate Avenue Drain	Flash
1/2	1/2	1/2	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
2/2	2/2	2/2	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
-	3/2	3/2	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
-	4/2	4/2	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
4B	4B	4B	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
6	6	6	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
1/8	1/8	1/8	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
2/8	2/8	2/8	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
3/8	3/8	3/8	Ropley Grange	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/3-11	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4/3-11	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	5/3-11	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	6-8	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	14	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	20	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	22	Rosella Street	Frankston	Skye Rd / Karingal Drain	Flash
-	6	6	Rosewood Court	Frankston	Sandgate Avenue Drain	Flash
7	7	7	Rosewood Court	Frankston	Sandgate Avenue Drain	Flash
-	-	8	Rosewood Court	Frankston	Sandgate Avenue Drain	Flash
9	9	9	Rosewood Court	Frankston	Sandgate Avenue Drain	Flash
10	10	10	Rosewood Court	Frankston	Sandgate Avenue Drain	Flash
-	-	1	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	2	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	6	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	7	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	8	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	9	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	10	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	11	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	13	Roslyn Avenue	Seaford	Bardia Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	15	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	17	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	18	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	20	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	23	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	26	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	27	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	28	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	32	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	33	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	36	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	37	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	39	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	43	Rossllyn Avenue	Seaford	Bardia Avenue Drain	Flash
-	-	44	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	55	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	56A	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	59	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	60	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	61	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	64	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	75	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	147	Rossllyn Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2	Rossllyn Court	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4	Rossllyn Court	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5	Rossllyn Court	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Sandgate Avenue	Frankston	Sandgate Avenue Drain	Flash
-	6	6	Sandgate Avenue	Frankston	Sandgate Avenue Drain	Flash
6	6	6	Screen Street	Frankston	Sandgate Avenue Drain	Flash
7	7	7	Screen Street	Frankston	Sandgate Avenue Drain	Flash
-	1/10	1/10	Screen Street	Frankston	Sandgate Avenue Drain	Flash
2/10	2/10	2/10	Screen Street	Frankston	Sandgate Avenue Drain	Flash
3/10	3/10	3/10	Screen Street	Frankston	Sandgate Avenue Drain	Flash
4/10	4/10	4/10	Screen Street	Frankston	Sandgate Avenue Drain	Flash
5/10	5/10	5/10	Screen Street	Frankston	Sandgate Avenue Drain	Flash
-	-	53A	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	55	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	60	60	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	62	62	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	64	64	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	65	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	66	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	68	Seaford Grove	Seaford	Seaford Lowlands	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	70	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	72	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	73	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	74	Seaford Grove	Seaford	Seaford Lowlands	Flash
-	-	76	Seaford Grove	Seaford	Seaford Lowlands	Flash
111-113	111-113	111-113	Seaford Place	Seaford	Austin Road / Excelsior Avenue Drain	Flash
-	-	25	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	27	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	28	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	29	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	32	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	33	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	34	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	36	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	37	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	40	Seaford Road	Seaford	Seaford Lowlands	Flash
-	-	20	Shearer Court	Frankston South	Sandgate Avenue Drain	Flash
-	-	22	Shearer Court	Frankston South	Sandgate Avenue Drain	Flash
-	24	24	Shearer Court	Frankston South	Sandgate Avenue Drain	Flash
-	26	26	Shearer Court	Frankston South	Sandgate Avenue Drain	Flash
-	-	2	Sheridan Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3	Sheridan Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	11-13	Sheridan Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	12	Sheridan Avenue	Frankston	Skye Rd / Karingal Drain	Flash
-	-	14	Sheridan Avenue	Frankston	Skye Rd / Karingal Drain	Flash
5	5	5	Silas Avenue	Frankston	Lee Street Drain	Flash
-	184	184	Skye Road	Frankston	Skye / Karingal Drain	Flash
206	206	206	Skye Road	Frankston	Skye / Karingal Drain	Flash
208	208	208	Skye Road	Frankston	Skye / Karingal Drain	Flash
-	238	238	Skye Road	Frankston	Skye / Karingal Drain	Flash
252	252	252	Skye Road	Frankston	Skye / Karingal Drain	Flash
254	254	254	Skye Road	Frankston	Skye / Karingal Drain	Flash
258	258	258	Skye Road	Frankston	Skye / Karingal Drain	Flash
260	260	260	Skye Road	Frankston	Skye / Karingal Drain	Flash
-	-	10	St Johns Avenue	Frankston	Sandgate Avenue Drain	Flash
-	2	2	Tarook Court	Frankston	Sandgate Avenue Drain	Flash
-	3	3	Tarook Court	Frankston	Sandgate Avenue Drain	Flash
-	-	11	Taverner Square	Frankston	Lee Street Drain	Flash
-	-	14	Taverner Square	Frankston	Lee Street Drain	Flash
-	-	7	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
-	-	1/9	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/9	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	3/9	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	4/9	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	10	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	12	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	14	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	15-19	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	16	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	18	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	26	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	28	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	1/30-32	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	-	2/30-32	Tooyal Street	Frankston	Skye Rd / Karingal Drain	Flash
-	18	18	Towerhill Road	Frankston	Sandgate Avenue Drain	Flash
-	-	5	Turnberry Court	Frankston	Lee Street Drain	Flash
-	-	1B	Warrain Street	Frankston	Sandgate Avenue Drain	Flash
-	21	21	Warrain Street	Frankston	Sandgate Avenue Drain	Flash
32	32	32	Warrain Street	Frankston	Sandgate Avenue Drain	Flash
-	-	36	Warrain Street	Frankston	Sandgate Avenue Drain	Flash
2	2	2	Weatherston Road	Seaford	Seaford Lowlands	Flash
-	-	32	Weatherston Road	Seaford	Seaford Lowlands	Flash
-	-	4	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	9	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	13	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	16	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	35	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	36	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	37	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	39	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	-	45	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	50-52	50-52	Wells Road	Seaford	Skye Rd / Karingal Drain	Flash
-	1/140	1/140	Williams Street	Frankston	Sandgate Avenue Drain	Flash
-	-	2/140	Williams Street	Frankston	Sandgate Avenue Drain	Flash
-	3/140	3/140	Williams Street	Frankston	Sandgate Avenue Drain	Flash
-	4/140	4/140	Williams Street	Frankston	Sandgate Avenue Drain	Flash
-	5/140	5/140	Williams Street	Frankston	Sandgate Avenue Drain	Flash
-	28A	28A	Willis Street	Frankston	Lee Street Drain	Flash
-	-	26	Willis Street	Frankston	Lee Street Drain	Flash
-	-	116	Willow Road	Frankston	Lee Street Drain	Flash
1B	1B	1B	Winifred Street	Frankston	Sandgate Avenue Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
Residential		Commercial	Industrial	Rural	Public Use	
Street No. at Risk in AEP Event			Address	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
20% AEP	5% AEP	1% AEP				
-	1	1	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	-	1/2	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	-	2/2	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	3	3	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	5	5	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	-	6	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	7	7	Wise Avenue	Seaford	Seaford Lowlands	Flash
8	8	8	Wise Avenue	Seaford	Seaford Lowlands	Flash
9	9	9	Wise Avenue	Seaford	Seaford Lowlands	Flash
10	10	10	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	1/11	1/11	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	2/11	2/11	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	12-14	12-14	Wise Avenue	Seaford	Seaford Lowlands	Flash
1/15	1/15	1/15	Wise Avenue	Seaford	Seaford Lowlands	Flash
2/15	2/15	2/15	Wise Avenue	Seaford	Seaford Lowlands	Flash
3/15	3/15	3/15	Wise Avenue	Seaford	Seaford Lowlands	Flash
16	16	16	Wise Avenue	Seaford	Seaford Lowlands	Flash
17	17	17	Wise Avenue	Seaford	Seaford Lowlands	Flash
18	18	18	Wise Avenue	Seaford	Seaford Lowlands	Flash
1/19	1/19	1/19	Wise Avenue	Seaford	Seaford Lowlands	Flash
2/19	2/19	2/19	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	-	1/20	Wise Avenue	Seaford	Seaford Lowlands	Flash
2/20	2/20	2/20	Wise Avenue	Seaford	Seaford Lowlands	Flash
21	21	21	Wise Avenue	Seaford	Seaford Lowlands	Flash
22	22	22	Wise Avenue	Seaford	Seaford Lowlands	Flash
23	23	23	Wise Avenue	Seaford	Seaford Lowlands	Flash
1/24	1/24	1/24	Wise Avenue	Seaford	Seaford Lowlands	Flash
2/24	2/24	2/24	Wise Avenue	Seaford	Seaford Lowlands	Flash
3/24	3/24	3/24	Wise Avenue	Seaford	Seaford Lowlands	Flash
4/24	4/24	4/24	Wise Avenue	Seaford	Seaford Lowlands	Flash
25	25	25	Wise Avenue	Seaford	Seaford Lowlands	Flash
-	-	1/2	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/2	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/2	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/4-6	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/4-6	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/4-6	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/4-6	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/4-6	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/4-6	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/4-6	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/8	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/8	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash

Properties at risk from Flooding over-floor in Frankston and Seaford						
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				
-	-	3/8	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/8	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/8	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/8	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/8	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/12-14	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/12-14	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/12-14	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/12-14	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/12-14	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/12-14	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	11/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	12/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	13/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	14/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	15/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	16/13	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/19	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/19	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	5/19	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	6/19	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	7/19	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	8/19	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	10/19	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/24-26	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/24-26	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	3/24-26	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	4/24-26	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1/28-30	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	2/28-30	Wisewould Avenue	Seaford	Skye Rd / Karingal Drain	Flash
-	-	1	Yuille Street	Frankston	Sandgate Avenue Drain	Flash
Totals						
274	457	1586				

Table C1.4 – Properties at risk of flooding around Frankston, Frankston North & Seaford

Isolation

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

Essential Infrastructure

- **Frankston SES LHQ** on McCulloch Street, Seaford likely flooded during a 2% AEP event
- Parts of the Frankston City **Municipal Depot** on Buna Avenue, Seaford likely flooded during a 2% AEP event
- **Electrical Substation** on Wright Street, Seaford likely flooded during a 2% AEP event
- The **Frankston and Stony Point Railway Line** may have low level flooding crossing the tracks at various locations during a 1% AEP flood. Unknown whether this will force the closure of the line.

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 for the City of Frankston is available via the website at: https://www.ptv.vic.gov.au/assets/default-site/more/maps/Local-area-maps/Metropolitan/4afa74b3f6/14_Frankston_LAM.pdf

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

Road Closures

The following roads are subject to closure during flooding around Seaford & Frankston. Check the VicRoads website for more details: alerts.vicroads.vic.gov.au

Department of Transport (VicRoads) Roads flooded in a 1% AEP (100yr ARI) event

- Cranbourne Road, Frankston east of Moorooduc Highway Intersection

Table C1.5 – Department of Transport (VicRoads) Possible Road Closures during a flooding event

Frankston City Council Roads flooded in a 1% AEP (100yr ARI) event			
FRANKSTON	• James Street	• Woorilla Court	• Johnstone Street
• Ashleigh Avenue	• Kananook Creek Blvd Sth	• Young Street	• Jubilee Avenue
• Baillie Court	• Kareela Road	FRANKSTON NORTH	• Kananook Avenue
• Balwyn Street	• Karingal Drive	• Alde Court	• Kirkwood Avenue
• Banyan Drive	• Kashmir Crescent	• Bursaria Crescent	• Levuka Street
• Barclay Avenue	• Keys Street	• Pecan Court	• Lyster Close
• Beach Street	• Kookaburra Street	SEAFORD	• Manning Road
• Belar Avenue	• Lee Street	• Admans Avenue	• Martha Street
• Bragge Street	• Lewis Street	• Arden Court	• Martin Street
• Bush Court	• Lipton Drive	• Austin Road	• McCulloch Avenue
• Cambridge Street	• Long Island Drive	• Bardia Avenue	• Michael Court
• Camoustie Court	• Macrosty Court	• Bayside Grove	• Miles Grove
• Catherine Parade	• McMahons Road	• Boonong Avenue	• Milne Avenue
• Coogee Avenue	• Meerlu Avenue	• Bruce Street	• Molesworth Street
• Dandenong Road East	• Mereweather Avenue	• Brunel Road	• Moresby Avenue
• Deane Street	• Mincha Street	• Carder Avenue	• Patrick Court
• Dirleton Close	• Murawa Street	• Carrington Court	• Pimpala Avenue
• Douglas Grove	• New Street	• Chapman Avenue	• Prince Crescent
• Eastbourne Court	• Nursery Avenue	• Claude Street	• Quinn Street
• Ellesmere Court	• Overton Road	• Duncan Avenue	• Raymond Road
• Ellis Street	• Paetrie Street	• Easton Avenue	• Riviera Street
• Emora Court	• Partidge Crescent	• Elisdon Drive	• Robinsons Road
• Erica Street	• Quandong Court	• Elliott Street	• Rosslyn Avenue
• Erskine Street	• Raphael Crescent	• Erwin Drive	• Rosslyn Court
• Finch Street	• Reid Street	• Fern Court	• Scott Street
• Frallon Crescent	• Rosella Street	• Fortescue Avenue	• Sussex Crescent
• Franciscan Avenue	• Rushcliffe Court	• Galway Street	• Valerie Court
• Frank Street	• Sandpiper Place Frankston	• Govan Street	• Wicklow Street
• Glenelg Avenue	• Savannah Court	• Gray Street	• Wise Avenue
• Grimwade Crescent	• Sheridan Avenue	• Greaves Court	• Wisewould Avenue
• Heatherhill Road	• Skye Road	• Henry Crescent	• Wright Street
• Highgate Court	• Thompson Street	• Heversham Drive	• Young Street
• Hillcrest Road	• Tooyal Street	• Hummerstone Road	
• Iranda Street	• Willow Road	• Hunt Drive	
• Jacana Avenue	• Winifred Street	• Ilma Court	

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

Flood Mitigation

Flood mitigation for Frankston and Seaford has predominantly been developed in the form of Retarding Basins, Pumping Stations, Levees & 1 set of Tidal Gates. These flood mitigation systems are as follows in the tables below. To view their locations and connecting waterway/drainage systems, see map B in **Appendix F**. Miles Grove RB (Retarding Basin) has been enlarged and upgraded by LXRA (Level Crossing Removal Authority) in conjunction with MW due to Kananook train stabling yards construction. MW has reconstructed RB embankments in Frankton i.e. Lee Street, Sandgate Avenue, Long Island, Banyan Reserve and Botany Park in Carrum Downs

Retarding Basins

Melbourne Water Retarding Basin	On Drain/ Waterway	Area	Storage Capacity	Spillway Crest Level	Full Supply Level	Embankment Crest Level	ANCOLD Hazard Rating	Properties in Flow Path (WD DCF Failure)	Melway Reference
Claude Street	Skye Road / Karingal	Unavailable	Unavailable	nil	Unavailable	In cut	Very Low	0	99 G8
Karingal Hub	Skye Road / Karingal	0.335 ha	6.0 ML	61.6m AHD	62.0m AHD	62.5m AHD	Very Low	0	103 D4
Lee Street	Lee Street Drain	2.346 ha	80.8 ML	49.4m AHD	50.22m AHD	50.5m AHD	Very Low	98	102 K5
Long Island	Skye Road / Karingal	Unavailable	Unavailable	nil	8.7m AHD	8.89m AHD	Significant	49	99 G10
McCulloch Avenue	Skye Road / Karingal	0.536 ha	4.0 ML	nil	Unavailable	2.1m AHD	Very Low	0	99 F8
Mile Grove	Bardia Avenue Drain	1.092 ha	6.0 ML	nil	1.4m AHD	Unavailable	Low	4	99 F6
Nursery Avenue	Lee Street Drain	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	High C	Unavailable	102 H4
Sandgate Avenue	Sandgate Avenue Drain	3.024 ha	8.3 ML	75.62m AHD	75.61m AHD	75.65m AHD	Very Low	13	102 H8
Skye Road	Skye Road / Karingal	2.084 ha	44.0 ML	nil	16.0m AHD	17.5m AHD	Significant	0	99 K12
Wells Road	Bardia Avenue Drain	0.735 ha	6.5 ML	nil	3.2m AHD	In cut	Very Low	0	99 G6
Wingham Park	Skye Road / Karingal	~ 0.8 ha	6 ML	22.0m AHD	21.8m AHD	22.0m AHD	Very Low	171	99 K12

Table C1.7 – Melbourne Water Retarding Basins around Frankston, Frankston North & Seaford

Lee Street RB Design Flood Discharges

AEP % (1 in X ARI)	Elevation (mAHD)
20% (5 year)	48.62
10% (10 year)	49.27
5% (20 year)	49.82
FSL 3.2% (31 year)	50.22
DCF 2.4% (42 year)	50.50
2% (50 year)	50.66

Table C1.8 (GHD Report for Melbourne Water – Risk Assessment of Lee Street RB, July 2016)

Long Island RB Design Flood Discharges

AEP % (1 in X ARI)	Elevation (mAHD)	Critical Duration Storm for Peak Outflow (hours)
20% (5 year)	8.07	9
5% (20 year)	8.66	9
DCF & FSL 2.3% (44 year)	8.89	unavailable
2% (50 year)	8.93	4
1% (100 year)	9.02	3
0.2% (500 year)	9.06	3
0.01% (10,000 year)	9.13	3
PMPDF 0.001% (100,000 year)	9.22	2

Table C1.9 (GHD Report for Melbourne Water – Risk Assessment of Long Island RB, July 2016)

Skye Road RB Design Flood Discharges

AEP % (1 in X ARI)	Elevation (mAHD)	Critical Duration Storm for Peak Outflow (hours)
20% (5 year)	15.60	9
10% (10 year)	16.03	9
5% (20 year)	16.46	9
2% (50 year)	17.06	4
DCF 1.05% (95 year)	17.50	3
1% (100 year)	17.54	3
0.5% (200 year)	17.55	3
0.2% (500 year)	17.56	2
0.1% (1,000 year)	17.57	2
PMPDF 0.01% (10,000 year)	17.76	unknown

Table C1.10 (GHD Report for Melbourne Water – Risk Assessment of Skye Rd RB, July 2016)

Sandgate Avenue RB Design Flood Discharges

AEP % (1 in X ARI)	Elevation (mAHD)	Critical Duration Storm for Peak Outflow (hours)
20% (5 year)	75.15	unknown
Piping – Partially Full 10% (10 year)	75.50	9
DCF 6.25% (16 year)	75.65	9
5% (20 year)	75.73	9
Overtopping - 2% (50 year)	75.86	2

Table C1.11 (GHD Report for Melbourne Water – Risk Assessment of Sandgate Avenue RB, July 2016)

Frankston City Council Retarding Basin	Location	Area	Spillway Crest Level	Full Supply Level	Embankment Crest Level	Properties in Flow Path (WD DCF Failure)	Melway Reference
EDBALE/EVELYN STREET RETARDING BASIN	Ebdale Street Frankston	6500m2	2.70	2.80	3.00	10	99 D12
PAT ROLLO RESERVE RETARDING BASIN	Silver Avenue Frankston North				In Cut	0	100 B6
BEAUTY PARK RETARDING BASIN / LAKE	High Street Frankston				In Cut	0	102 C3
WORLAND PARK RESERVE RETARDING BASIN	Belar Avenue Frankston				In Cut	0	103 B2
LEE STREET (Nursery Reserve) RETARDING BASIN (Natural depression)	Lee Street Frankston				In Cut	0	102 K4
REX STREET SMALL RETARDING BASIN (Natural depression)	Joy Street Frankston				In Cut	0	102 E2
BALLAM PARK RETARDING BASIN (Soccer Training Pitch #2) AND SPORTING GROUNDS	Cranbourne Road Frankston	1.6 ha				Approx. 10	103 A4
MONTAGUE PARK RETARDING BASIN	Bentley Place Frankston	2200m2	35.75		36.00	Approx. 5	102 C5
VICTORIA PARK RETARDING BASIN	Williams Street Frankston	7500m2	22.60		22.80		102 C4
JUBILEE PARK RETARDING BASIN	Hillcrest Road Frankston					Approx. 13	102 J4
PARC RETARDING BASIN	Olive Grove Frankston				In Cut	0	102 E2

Table C1.12 – Frankston City Council Water Retarding Basins in Frankston, Frankston North and Seaford

Private Water Retarding Basin	Location	Area	Spillway Crest Level	Full Supply Level	Embankment Crest Level	Properties in Flow Path (WD DCF Failure)	Melway Reference
MCCLELLAND DRIVE RETENTION BASIN 3	Karingal Hub Shopping Centre				In Cut	0	103 D4
RETENTION BASIN 75 Playne Street	75 Playne Street Frankston				In Cut		100A E8

Table C1.13 – Private Water Retarding Basins in Frankston, Frankston North and Seaford

Pumping Stations

Melbourne Water Pumping Station	On Drain / Waterway	Location	No. of Pumps	Consequence of Failure	Melway Reference
Bardia Avenue	Bardia Avenue Drain	Within Creek reserve at west end of Bardia Avenue	1	Water in Bardia Ave Drain becomes Black Aerobic within 2 to 3 days	99 E6
Bunna Avenue	Skye Road / Karingal	Corner of Lyster and Buna Avenue, south side. Next to primary school grounds.	1	Local flooding of up to 100 properties	99 F9
James Street	Seaford Lowlands	End of James Street and adjacent to bicycle path abutting Seaford Wetland.	1	Local flooding of up to 50 properties	99 F2
Kananook Creek	Eel Race Drain	Palm Beach Drive. North side levee of Eel Race drain opposite no 93-95.	2	Rapid deterioration (within hours) of water quality along Kananook Creek and into Patterson Lakes when temperatures are greater than 30 degrees	97 G9
McCulloch Avenue	Skye Road / Karingal	North side of MucCulloch Avenue next to Kananook Reserve entrance	1	Local flooding of up to 100 properties	99 F8
Wadsleys Drain	Wadsleys Drain	East side of freeway on drain just up-stream of junction with Eel Race drain. Access from the freeway.	1	Loss of environmental flow to the Seaford Wetlands	97 J9
Weatherston Road	Kananook Creek	Between Kananook Creek and Seaford Oval. Access from Seaford Road via track next to east side of Kananook Creek Bridge	1	Water in Weatherston Road Drain becomes Black Aerobic within 2 to 3 days	99 E5

Table C1.14 – Melbourne Water Pumping Stations around Frankston, Frankston North & Seaford

Levees

Levee	Reach	Side	Levee Height	Levee Length	Expected Level of Protection	ANCOLD Hazard Rating	Consequences of Failure	Melway Reference
Eel Race Creek	Boggy Creek to Wadsley Drain	North	2.0m	500m	Unavailable	Very Low	None significant	97K10-98A10
Eel Race Creek	Boggy Creek to Peninsula Fwy	South	2.0m	500m	Unavailable	Very Low	None significant	97K10-98A10
Eel Race Drain	Mornington Peninsula Fwy to Footbridge	South	1.0m	1.3km	100yr ARI Event with in excess of 800mm freeboard	Low	Flooding of ~2500 residential properties, Patterson River Secondary College, Seaford North Primary School and Seaford Wetland	97F10-97J10
Kananook Creek Retaining Wall	Beach Street to Wells Street	East	1.52m	310m	Unavailable	Unavailable	Unavailable	102C1-102C2
Wadsley Drain	Eel Race Creek to Wadsley Rd	East	1.26m	900m	100yr ARI Event (freeboard unknown)	Low	None significant	97K7-97K10
Wadsley Drain	Eel Race Creek to Wadsley Rd	West	1.26m	900m	100yr ARI Event (freeboard unknown)	Very Low	Mornington Freeway likely closed in case of flooding	97K7-97K10

Table C1.15 – Melbourne Water Levees along the Eel Race Drain & Kananook Creek catchments

Tidal Gates

On Drain / Waterway	Location	Regulate Gates at Level against Gauge	Melway Reference
Kananook Creek	Riviera Outlet Gates, Riviera Street directly behind the Riviera Hotel. Access via Riviera Street	1.1m at the Seaford Gauge. Gates opened / closed based upon flood risk to lower Frankston area and tide levels.	97 D11

Table C1.16 – Melbourne Water Tidal Gates along Kananook Creek

Sewerage Infrastructure

Sewerage Infrastructure of note during a severe flood event located around Frankston, Frankston North and Seaford is contained within the following table.

Sewer Pumping Stations

Sewerage Pumping Station	On Drain / Waterway	Bank / Side of Waterway	Operator	Location	Melway Reference
Allawah Avenue	Kananook Creek	Left	South East Water	Allawah Avenue, Frankston	99 D11
Beach Grove	Kananook Creek	West	South East Water	Beach Grove, Seaford	99 E1
Belvedere Road	Local Drainage	-	South East Water	Belvedere Road, Seaford	99 H5
Boonong Avenue	Kananook Creek	Right	South East Water	Boonong Avenue, Seaford	99 D9
Coolibar Avenue	Seaford Lowlands Drain	-	South East Water	Coolibar Avenue, Seaford	97 E11
Fiocchi Avenue	Kananook Creek	Right	South East Water	Fiocchi Avenue, Frankston	99 D12
Fortescue Avenue	Local Drainage	-	South East Water	Fortescue Avenue, Seaford	99 E6
Greaves Court	Seaford Lowlands Drain	-	South East Water	Greaves Court, Seaford	99 G3
Hallifax Street	Local Drainage	-	South East Water	Hallifax Street, Seaford	99 F1
Kirkwood Avenue	Local Drainage	-	South East Water	Kirkwood Avenue, Seaford	99 E8
Lanena Court	Local Drainage	-	South East Water	Lanena Court, Frankston	100 D11
Manorwood Drive	Skye Road North Drain	-	South East Water	Manorwood Drive, Frankston	103 E2
McKenzie Street	Seaford Lowlands Drain	-	South East Water	McKenzie Street, Seaford	99 F3
Nepean Highway Frankston	Local Drainage	-	South East Water	Nepean Highway, Frankston	102 B4
Nepean Highway Seaford	Kananook Creek	West	South East Water	Nepean Highway, Seaford south of Seaford Road	99 D5
New Street	Local Drainage	-	South East Water	New Street, Frankston	99 E10
Oliphant Way	Wells Road Drain	-	South East Water	Oliphant Way, Seaford	99 K1
Park Street	Local Drainage	-	South East Water	Park Street, Seaford	99 F2
Pascal Road	Wells Road Drain	-	South East Water	Pascal Road, Seaford	99 J2
Playne St Foreshore	Kananook Creek	Left	South East Water	Kananook Creek Reserve on Long Island Drive, Frankston	102 C2
Riviera Street	Kananook Creek	West	South East Water	Riviera Street, Seaford	97 D10
Seaford Oval	Kananook Creek	East	South East Water	Seaford Reserve on Seaford Road, Seaford	99 E5
Wedge Court	Seaford Lowlands Drain	-	South East Water	Wedge Court, Seaford	99 H1
Wise Avenue	Bardia Avenue Drain	-	South East Water	Wise Avenue, Seaford	99 F5

Table C1.17 – Sewer Pumping Stations in Frankston, Frankston North and Seaford

Control, Command and Coordination

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

Flood Impacts and Operational Considerations (Intelligence Cards)

The tables on the following pages provide a breakdown of the possible consequences of flooding along Kananook Creek and the Skye / Karingal Drain at various creek heights or rain totals within Frankston, Frankston North and Seaford. 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:

- Kananook Creek at Seaford North
- Kananook Creek at Seaford
- Skye / Karingal Drain at Frankston North
- Frankston & Seaford Stormwater Drains

FLOOD INTELLIGENCE CARD – SEAFORD NORTH GAUGE, KANANOOK CREEK

Version 4 – January 2021



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	Riviera Street Culverts, Seaford North
CURRENT LEVEL:	https://www.melbournewater.com.au/water-data-and-education/rainfall-and-river-levels#/reader/228371A
STREAM:	Kananook Creek
GAUGE NUMBER:	228371A
GAUGE ZERO:	0.00m AHD
GAUGE TYPE	Stream Level & Rain

MELWAY REFERENCE:	97 D11
MINOR – MODERATE:	1.1m – 1.5m
MAJOR	1.5m
LEVEE HEIGHT:	2.50m
TELEMETRIC/MANUAL	Telemetric
HIGHEST RECORDED FLOOD:	1.67m (3 rd February 2005)

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
1.1m – 1.5m	MINOR - MODERATE FLOOD LEVEL	<p>Properties at Flood Risk 19 Properties in Total</p> <ul style="list-style-type: none"> 2, 4, 6, 8, 10, 12-14, 16, 18, 20, 22, 24, 26, 28, 30, 32 & 34 Beach Grove, Seaford 2, 3 & 4 Ti-Tree Grove, Seaford <p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> Seaford Wetlands Walking Trail flooded in various locations 	VICSES to respond on a request-by-request basis.
1.17m	3 rd February 2005 Flood Level Peak	<p>Event Summary Businesses and factories in Patrick Court, Miles Grove & Bardia Avenue in Seaford were subject to flooding</p>	
1.5m	MAJOR FLOOD LEVEL	<p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> Grounds of the Seaford North Primary School on Halifax Street, Seaford start flooding <p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> Riviera Street, Seaford Greaves Court, Seaford 	<p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based on the predictions provided by BoM regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>VICSES to respond on a request by request Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Creek Height	Flood Class or Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
1.7m	1% AEP (100yr ARI) Flood Level (Major)	<p>Properties at Flood Risk</p> <ul style="list-style-type: none"> • Many properties between Kananook Creek and the Frankston Freeway likely flooded with a large number flooded over-floor <p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> • Many streets between Kananook Creek and the Frankston Freeway likely flooded • Chapman Avenue, Seaford 	VICSES to respond on a request-by-request basis
2.5m		<ul style="list-style-type: none"> • Levee Height Reached at Eel Race Drain, south bank. Water starts flowing over crest into Seaford Wetlands 	

Table C1.18 – Breakdown of likely consequences at various Seaford North gauge level heights along Kananook Creek with operational considerations

FLOOD INTELLIGENCE CARD – SEAFORD GAUGE, KANANOOK CREEK

Version 4 – January 2021



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	Seaford Road, Seaford
CURRENT LEVEL:	https://www.melbournewater.com.au/water-data-and-education/rainfall-and-river-levels#/reader/228372A
STREAM:	Kananook Creek
GAUGE NUMBER:	228372A
GAUGE ZERO:	0.00m AHD
GAUGE TYPE	Stream Level

MELWAY REFERENCE:	99 E5
MINOR:	N/A
MODERATE:	N/A
MAJOR	N/A
LEVEE HEIGHT:	N/A
HIGHEST RECORDED FLOOD:	1.12m (10 th July 2008)

Creek Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
1.1m		<p>Properties at Flood Risk 19 Properties in Total</p> <ul style="list-style-type: none"> 2, 4, 6, 8, 10, 12-14, 16, 18, 20, 22, 24, 26, 28, 30, 32 & 34 Beach Grove, Seaford 2, 3 & 4 Ti-Tree Grove, Seaford <p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> Seaford Wetlands Walking Trail flooded at various locations Kananook Creek Walking Trail flooded at various locations 	VICSES to respond on a request-by-request basis
1.7m	1% AEP (100yr ARI) Flood Level	<p>Properties at Flood Risk</p> <ul style="list-style-type: none"> Many properties between Kananook Creek and the Frankston Freeway likely flooded with a large number flooded over-floor <p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> Coates Walk Pedestrian Bridge flooded <p>Water Over Road</p> <ul style="list-style-type: none"> Many streets between Kananook Creek and the Frankston Freeway likely flooded Chapman Avenue, Seaford Kananook Creek Boulevard South, Frankston Long Island Drive, Frankston near boat sheds 	<p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Table C1.19 – Breakdown of likely consequences at various Seaford gauge level heights along Kananook Creek with operational considerations

FLOOD INTELLIGENCE CARD – FRANKSTON NORTH GAUGE, SKYE / KARINGAL DRAIN

Version 4 – January 2021



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	Skye Road Retarding Basin on Skye Road, Frankston North
CURRENT LEVEL:	https://www.melbournewater.com.au/water-data-and-education/rainfall-and-river-levels#/reader/228378A
STREAM:	Skye / Karingal Drain
GAUGE NUMBER:	228378A
GAUGE ZERO:	12.84m AHD
GAUGE TYPE	Stream Level & Rain

MELWAY REFERENCE:	99 K12
MINOR:	N/A
MODERATE:	N/A
MAJOR	N/A
EMBANKMENT HEIGHT:	4.6m
HIGHEST RECORDED FLOOD:	2.71m (31 st October 2010)

Drain Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
4.21m	20% AEP (5yr ARI) Flood Level	•	
4.54m	10% AEP (10yr ARI) Flood Level	•	
4.6m		• Top of Retarding Basin Embankment reached	
4.75m	5% AEP (20yr ARI) Flood Level	<p>Properties at Flood Risk (Over-Floor) 22 Properties in Total</p> <ul style="list-style-type: none"> • 1, 3, 5, 7 & 9 Amber Avenue, Frankston • 53 Bokissa Drive, Frankston • 15 Fingal Drive, Frankston • 3 & 8 Frallon Crescent, Frankston • 1 Kintal Court, Frankston • 2, 3, 4, 12 & 13 Leighton Court, Frankston • 5 Lingi Court, Frankston • 206, 208, 252, 254, 258 & 260 Skye Road, Frankston <p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> • Driveway and carpark off Karingal Drive of Centro Karingal & Village Cinemas Karingal flooded • Grounds of St John's Primary School, Jayne Street, Frankston flooded 	<p>VICSES to respond on a request-by-request basis VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Drain Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> • Sandpiper Place, Frankston • Belar Avenue, Frankston • Karingal Drive, Frankston between Ashleigh Drive and Lindrum Road • Ashleigh Drive, Frankston at Mallum Avenue • Skye Road, Frankston at Frank Street • Grimwade Crescent, Frankston • Savannah Court, Frankston • Rushcliffe Court, Frankston • Eastbourne Court, Frankston 	
4.80m	2% AEP (50yr ARI) Flood Level	<p>Properties at Flood Risk (Over-Floor)</p> <p>25 Properties in Total</p> <ul style="list-style-type: none"> • 1, 3, 5, 7 & 9 Amber Avenue, Frankston • 53 Bokissa Drive, Frankston • 15 & 31 Fingal Drive, Frankston • 3 & 8 Frallon Crescent, Frankston • 1 Kintal Court, Frankston • 2, 3, 4, 12 & 13 Leighton Court, Frankston • 5 Lingi Court, Frankston • 184, 206, 208, 238, 252, 254, 258 & 260 Skye Road, Frankston <p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> • Driveway and carpark off Karingal Drive of Centro Karingal & Village Cinemas Karingal flooded • Grounds of St John's Primary School, Jayne Street, Frankston flooded • Grounds of John Paul Catholic College on McMahons Road, Frankston flooded <p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> • Sandpiper Place, Frankston • Belar Avenue, Frankston • Banyan Drive, Frankston • Meerlu Avenue, Frankston • Kareela Road, Frankston • Karingal Drive, Frankston between Ashleigh Drive and Lindrum Road • Ashleigh Drive, Frankston at Mallum Avenue • Jacana Avenue, Frankston • Frank Street, Frankston at Jacana Avenue • Skye Road, Frankston at Frank Street • Grimwade Crescent, Frankston • Savannah Court, Frankston • Rushcliffe Court, Frankston • Eastbourne Court, Frankston • Barclay Avenue, Frankston • McMahons Road, Frankston at Barclay Avenue 	<p>VICSES to respond on a request-by-request basis</p> <p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Drain Height	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
4.83m	1% AEP (100yr ARI) Flood Level	<p>Properties at Flood Risk (Over-Floor) 28 Properties in Total</p> <ul style="list-style-type: none"> • 1, 3, 5, 7 & 9 Amber Avenue, Frankston • 53 Bokissa Drive, Frankston • 15 & 31 Fingal Drive, Frankston • 1, 3, 8 & 10 Frallon Crescent, Frankston • 1 Karingal Drive, Frankston • 1 Kintal Court, Frankston • 2, 3, 4, 12 & 13 Leighton Court, Frankston • 5 Lingi Court, Frankston • 184, 206, 208, 238, 252, 254, 258 & 260 Skye Road, Frankston <p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> • Driveway and carpark off Karingal Drive of Centro Karingal & Village Cinemas Karingal flooded • Grounds of St John's Primary School, Jayne Street, Frankston flooded • Grounds of John Paul Catholic College on McMahons Road, Frankston flooded <p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> • Sandpiper Place, Frankston • Belar Avenue, Frankston • Banyan Drive, Frankston • Meerlu Avenue, Frankston • Ellis Street, Frankston • Kareela Road, Frankston • Karingal Drive, Frankston between Ashleigh Drive and Lindrum Road • Kashmir Crescent, Frankston • Woorilla Court, Frankston • Ashleigh Drive, Frankston at Mallum Avenue • Jacana Avenue, Frankston • Frank Street, Frankston at Jacana Avenue • Frallon Crescent, Frankston • Skye Road, Frankston at Frank Street • Grimwade Crescent, Frankston • Bush Court, Frankston • Dirleton Close, Frankston • Highgate Court, Frankston • Savannah Court, Frankston • Rushcliffe Court, Frankston • Eastbourne Court, Frankston • Carnoustie Court, Frankston • Barclay Avenue, Frankston • McMahons Road, Frankston at Barclay Avenue 	<p>VICSES to respond on a request-by-request basis VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Table C1.20 – Breakdown of likely consequences at various Frankston North gauge level heights

along the Skye/Karingal Drain with operational considerations

FLOOD INTELLIGENCE CARD – FRANKSTON & SEAFORD STORMWATER DRAINS (UNGAUGED)

Version 3 – January 2021



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

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CLOSEST RAIN GAUGE	Skye Road Retarding Basin at Frankston North
LOCATION	Skye Road Retarding Basin on Skye Road, Frankston North
RECENT RAINFALL:	https://www.melbournewater.com.au/water-data-and-education/rainfall-and-river-levels#/reader/228378A

MELWAY REF:	99 K12
GAUGE NUMBER	228378A
GAUGE TYPE	Stream Level & Rain

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
10mm in 10 mins; 17mm in 30 mins; 23mm in 1 hour; 30mm in 2 hours; 45mm in 6 hours; or 57mm in 12 hours Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungaged nature of the catchment. This should be used as a guide only.	20% AEP (5-year ARI)	Properties at Flood Risk (Over-Floor) 65 Properties in Total Lee Street Drain 41 Properties in Total <ul style="list-style-type: none"> 53, 53A, 53B, 53D, 2/65-67, 3/65-67, 77, 1/102 & 104 Beach Street, Frankston 14-16 Catherine Parade, Frankston 80 & 87 Cranbourne Road, Frankston 2/31 & 3/31 Deane Street, Frankston 1 Emora Court, Frankston 3/17-19, 8/17-19, 3/21-23, 4/21-23 & 5/21-23 Hill Street, Frankston 4 Iranda Street, Frankston 29 James Street, Frankston 30 Joy Street, Frankston 23 Leawarra Parade, Frankston 11 Lee Street, Frankston 1/4, 2/4, 3/4, 4/4, 5/4, 6/4 & 5/6 Lewis Street, Frankston 48, 50, 52 & 54 Lipton Drive, Frankston 10 & 55 McMahons Road, Frankston 9/8, 16 & 9/18 Reservoir Road, Frankston Sandgate Avenue Drain 21 Properties in Total <ul style="list-style-type: none"> 68, 70, 72 & 74 Brooklyn Avenue, Frankston 	VICSES to respond on a request-by-request basis VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based on intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. 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
		<ul style="list-style-type: none"> • 1/14 & 2/14 Burns Street, Frankston • 47 & 49 Golf Links Road, Frankston • 22 Grady Court, Frankston South • 3 Hastings Road, Frankston • 10 & 15 Helvetia Court, Frankston • 1/5 Hillcrest Road, Frankston • 11 & 13 McMahons Road, Frankston • 13 Mincha Street, Frankston • 9 & 10 Rosewood Court, Frankston • 6, 4/10 & 5/10 Screen Street, Frankston <p>Wells Road Drain 3 Properties in Total</p> <ul style="list-style-type: none"> • 3/63, 4/63 & 5/63 Brunel Road, Seaford <p>Water Over Road (Over 300mm Depth) Lee Street Drain</p> <ul style="list-style-type: none"> • Franciscan Avenue, Frankston at Gattinara Drive • Baillie Court, Frankston • Iranda Street, Frankston • Beach Street, Frankston at Frankston Freeway underpass <p>Wells Road Drain</p> <ul style="list-style-type: none"> • Brunel Road, Seaford 	
<p>12mm in 10 mins; 20mm in 30 mins; 27mm in 1 hour; 34mm in 2 hours; 51mm in 6 hours; or 66mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>10% AEP (10-year ARI)</p>	<p>Properties at Flood Risk (Over-Floor) 93 Properties in Total</p> <p>Lee Street Drain 65 Properties in Total</p> <ul style="list-style-type: none"> • 2 Alice Grove, Frankston • 41-45, 53, 53A, 53B, 53D, 53E, 59-63, 1/65-67, 2/65-67, 3/65-67, 77, 79, 1/102, 104, 145 & 147 Beach Street, Frankston • 3/63, 4/63 & 5/63 Brunel Road, Seaford • 14-16 Catherine Parade, Frankston • 80, 86 & 87 Cranbourne Road, Frankston • 2/31 & 3/31 Deane Street, Frankston • 13 Ellesmere Court, Frankston • 1 & 4 Emora Court, Frankston • 25 Fletcher Road, Frankston - Building: N • 27 Gulwa Avenue, Frankston • 3/17-19, 8/17-19, 11/17-19, 3/21-23, 4/21-23, 5/21-23, 3/25, 4/25 & 6/25 Hill Street, Frankston • 106 Hillcrest Road, Frankston • 4 Iranda Street, Frankston 	<p>VICSES to respond on a request-by-request basis</p> <p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding.</p> <p>The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 29 James Street, Frankston • 30 Joy Street, Frankston • 46 Kenilworth Avenue, Frankston • 23 Leawarra Parade, Frankston • 11, 13 & 22 Lee Street, Frankston • 1/4, 2/4, 3/4, 4/4, 5/4, 6/4 & 5/6 Lewis Street, Frankston • 48, 50, 52 & 54 Lipton Drive, Frankston • 10, 50 & 55 McMahons Road, Frankston • 4, 9/8, 16, 8/18 & 9/18 Reservoir Road, Frankston Sandgate Avenue Drain 25 Properties in Total • 68, 70, 72 & 74 Brooklyn Avenue, Frankston • 1/14 & 2/14 Burns Street, Frankston • 43, 47 & 49 Golf Links Road, Frankston • 22 Grady Court, Frankston South • 3 Hastings Road, Frankston • 10 & 15 Helvetia Court, Frankston • 1/5 & 3/5 Hillcrest Road, Frankston • 11 & 13 McMahons Road, Frankston • 13 Mincha Street, Frankston • 9 & 10 Rosewood Court, Frankston • 6, 2/10, 3/10, 4/10 & 5/10 Screen Street, Frankston Wells Road Drain 3 Properties in Total • 3/63, 4/63 & 5/63 Brunel Road, Seaford Water Over Road (Over 300mm Depth) Lee Street Drain • Franciscan Avenue, Frankston at Gattinara Drive • Macrosty Court, Frankston • Baillie Court, Frankston • Iranda Street, Frankston • Beach Street, Frankston at Frankston Freeway underpass • James Street, Frankston • Erskine Street, Frankston Sandgate Avenue Drain • Winifred Street, Frankston Wells Road Drain • Brunel Road, Seaford 	
15mm in 10 mins;	5% AEP (20-year ARI)	<p>Properties at Flood Risk (Over-Floor) 252 Properties in Total</p>	VICSES to respond on a request-by-request basis

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
<p>24mm in 30 mins; 31mm in 1 hour; 41mm in 2 hours; 60mm in 6 hours; or 77mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>		<p>Seaford Lowlands / Bardia Avenue / Skye / Karingal Drains 53 Properties in Total</p> <ul style="list-style-type: none"> • 8 & 82 Arden Court, Seaford • 1/41, 2/41, 3/41 & 43 Bayside Grove, Seaford • 144, 150 & 164 Frankston-Dandenong Road, Seaford • 3 & 8 Grant Avenue, Seaford • 3 Hunt Drive, Seaford • 2, 6, 7, 9, 11, 13, 17 & 19 Jubilee Avenue, Seaford • 30, 53, 71 & 79 Miles Grove, Seaford • 4 Phillip Street, Frankston • 1/2, 2/2, 4B, 6, 1/8, 2/8 & 3/8 Ropley Grange, Frankston • 2 Weatherston Road, Seaford • 8, 9, 10, 1/15, 2/15, 3/15, 16, 17, 18, 1/19, 2/19, 2/20, 21, 22, 23, 1/24, 2/24, 3/24, 4/24 & 25 Wise Avenue, Seaford <p>Austin Road / Excelsior Avenue Drain 21 Properties in Total</p> <ul style="list-style-type: none"> • 34 Cumberland Drive, Seaford • 1/42, 2/42, 3/42, 4/42, 5/42, 6/42, 7/42, 8/42, 3/46-48, 4/46-48 & 5/46-48 Hartnett Drive, Seaford • 7 Heversham Drive, Seaford • 1/2-8, 2/2-8, 4/2-8, 5/2-8, 6/2-8, 7/2-8 & 8/2-8 Peninsula Boulevard, Seaford • 111-113 Seaford Place, Seaford <p>Lee Street Drain 117 Properties in Total</p> <ul style="list-style-type: none"> • 2 Alice Grove, Frankston • 4 & 6 Baillie Court, Frankston • 41-45, 53, 53A, 53B, 53D, 53E, 53F, 53G, 59-63, 1/65-67, 2/65-67, 3/65-67, 5/69, 77, 79, 1/102, 2/102, 104, 145, 147 & 149 Beach Street, Frankston • 14-16 Catherine Parade, Frankston • 80, 86 & 87 Cranbourne Road, Frankston • 13 Dandenong Road, Frankston • 11 & 13 Darius Avenue, Frankston • 3, 3/29A, 2/31, 3/31, 6/33, 7/33 & 8/33 Deane Street, Frankston • 13 Ellesmere Court, Frankston • 1, 2, 3 & 4 Emora Court, Frankston • 25 Fletcher Road, Frankston - Buildings: L & N • 56 Franciscan Avenue, Frankston • 6 Glenview Crescent, Frankston • 27 Gulwa Avenue, Frankston 	<p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding.</p> <p>The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 2/17-19, 3/17-19, 6/17-19, 8/17-19, 9/17-19, 11/17-19, 12/17-19, 13/17-19, 1/21-23, 3/21-23, 4/21-23, 5/21-23, 8/21-23, 1/25, 3/25, 4/25, 5/25 & 6/25 Hill Street, Frankston • 9/104, 12/104, 106, 1/108, 2/108, 109, 110 & 111 Hillcrest Road, Frankston • 4 Iranda Street, Frankston • 3/26, 28 & 29 James Street, Frankston • 28 & 30 Joy Street, Frankston • 46 Kenilworth Avenue, Frankston • 14 & 23 Leawarra Parade, Frankston • 1, 11, 13 & 22 Lee Street, Frankston • 1/4, 2/4, 3/4, 4/4, 5/4, 6/4 & 5/6 Lewis Street, Frankston • 48, 50, 52 & 54 Lipton Drive, Frankston • 10, 48, 50, 52 & 55 McMahons Road, Frankston • 2 Nursery Avenue, Frankston • 58 Partridge Crescent, Frankston • 6 Quandong Court, Frankston • 3 & 5 Raphael Crescent, Frankston • 4, 5/8, 9/8, 16, 1/18, 2/18, 3/18, 6/18, 7/18, 8/18, 9/18, 15/18 & 4/22 Reservoir Road, Frankston • 5 Silas Avenue, Frankston • Sandgate Avenue Drain • 58 Properties in Total • 96 & 98 Bondi Avenue • 68, 70, 72, 74 & 76 Brooklyn Avenue, Frankston • 1/14 & 2/14 Burns Street, Frankston • 15 Cambridge Street, Frankston • 5 & 9 Glenelg Avenue, Frankston • 43, 47, 49, 51 & 71 Golf Links Road, Frankston • 20 & 22 Grady Court, Frankston South • 3 Hastings Road, Frankston • 14, 16, 18 & 18A Heatherhill Road, Frankston • 10, 13, 15 & 22 Helvetia Court, Frankston • 1/5, 2/5 & 3/5 Hillcrest Road, Frankston • 10, 11, 13, 48, 50, 52 & 55 McMahons Road, Frankston • 13 & 27 Mincha Street, Frankston • 1, 3, 5, 7 & 19 Netherplace Drive, Frankston • 1/14A & 2/14A Reid Street, Frankston • 7, 9 & 10 Rosewood Court, Frankston • 6, 7, 2/10, 3/10, 4/10 & 5/10 Screen Street, Frankston • 32 Warrain Street, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 1B Winifred Street, Frankston Wells Road Drain 3 Properties in Total • 3/63, 4/63 & 5/63 Brunel Road, Seaford Community Infrastructure Flooded Austin Road / Excelsior Avenue Drain • Seaford Heights Preschool on Prince Crescent, Seaford flooded Lee Street Drain • Grounds of the Erinwood Preschool flooded on Raphael Crescent, Frankston Water Over Road (Over 300mm Depth) Seaford Lowlands / Bardia Avenue / Skye / Karingal Drains • Austin Road, Seaford between Mitchell Street and Frankston Freeway • Hummerstone Road, Seaford • Ilma Court, Seaford • Scott Street, Seaford • Erwin Drive, Seaford • Arden Court, Seaford • Hunt Drive, Seaford • Jonstone Street, Seaford • Raymond Road, Seaford • Wise Avenue, Seaford • Martha Street, Seaford • Miles Grove, Seaford • Bayside Grove, Seaford • Martin Street, Seaford • Bardia Avenue, Seaford • Govan Street, Seaford • Gray Street, Seaford • Moresby Avenue, Seaford • Milne Avenue, Seaford • Patrick Court, Seaford • Kananook Avenue, Seaford • Rosslyn Avenue, Seaford • Kirkwood Avenue, Seaford • McCulloch Avenue, Seaford • Easton Avenue, Seaford • Quinn Street, Seaford • Wright Street, Seaford • Bruce Street, Seaford • Elliott Street, Seaford 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Manning Road, Seaford • Claude Street, Seaford • Jubilee Avenue, Seaford • Lyster Close, Seaford • Rosslyn Court, Seaford • Boonong Avenue, Seaford • Wisewould Avenue, Seaford • Carder Avenue, Seaford • New Street, Frankston • Balwyn Street, Frankston • Rosella Street, Frankston • Kookaburra Street, Frankston • Tooyal Street, Frankston • Finch Street, Frankston • Douglas Grove, Frankston • Mereweather Avenue, Frankston • Sheridan, Avenue, Frankston • Austin Road / Excelsior Avenue Drain • Pecan Court, Frankston North • Alde Court, Frankston North • Bursaria Crescent, Frankston North • Sussex Crescent, Seaford • Henry Crescent, Seaford • Prince Crescent, Seaford • Carrington Court, Seaford • Molesworth Street, Seaford • Wicklow Street, Seaford • Galway Street, Seaford • Lee Street Drain • Partridge Crescent, Frankston at roundabout intersection • Ellesmere Court, Frankston • Franciscan Avenue, Frankston at Gattinara Drive • Raphael Crescent, Frankston at Erinwood Pre-school • Macrosty Court, Frankston • Heatherhill Road, Frankston at Lochaber Avenue • Baillie Court, Frankston • Willow Road, Frankston near railway line • Lipton Drive, Frankston • Quandong Court, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Lee Street, Frankston at Glenview Crescent • Hillcrest Road, Frankston • Iranda Street, Frankston • Emora Court, Frankston • Nursery Avenue, Frankston • Cranbourne Road, Frankston east of Moorooduc Highway Intersection • Beach Street, Frankston between Frankston Freeway underpass and Kelman Street • James Street, Frankston • Erskine Street, Frankston • Sandgate Avenue Drain • Winifred Street, Frankston • Murawa Street, Frankston • Mincha Street, Frankston • Coogee Avenue, Frankston • Wells Road Drain • Brunel Road, Seaford 	
<p>18mm in 10 mins; 24mm in 30 mins; 38mm in 1 hour; 49mm in 2 hours; 73mm in 6 hours; or 93mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>2% AEP (50-year ARI)</p>	<p>Properties at Flood Risk (Over-Floor) 432 Properties in Total</p> <p>Seaford Lowlands / Bardia Avenue / Skye / Karingal Drains 92 Properties in Total</p> <ul style="list-style-type: none"> • 7, 8 & 82 Arden Court, Seaford • 2B, 16, 18, 19, 22, 27, 28, 31, 37, 1/41, 2/41, 3/41 & 43 Bayside Grove, Seaford • 144, 148, 150, 164 & 168 Frankston-Dandenong Road, Seaford • 3 & 8 Grant Avenue, Seaford • 3 Hunt Drive, Seaford • 2, 6, 7, 9, 11, 13, 17 & 19 Jubilee Avenue, Seaford • 1, 3, 7, 11, 1/12, 2/12, 14, 16, 17 & 21 Martha Street, Seaford • 4 Martin Street, Seaford • 30, 53, 63, 71 & 79 Miles Grove, Seaford • 4 Phillip Street, Frankston • 6 & 8 Raymond Road, Seaford • 1/2, 2/2, 3/2, 4/2, 4B, 6, 1/8, 2/8 & 3/8 Ropley Grange, Frankston • 60, 62 & 64 Seaford Grove, Seaford • 2 Weatherston Road, Seaford • 50 Wells Road, Seaford • 1, 3, 5, 7, 8, 9, 10, 1/11, 2/11, 12, 1/15, 2/15, 3/15, 16, 17, 18, 1/19, 2/19, 2/20, 21, 22, 23, 1/24, 2/24, 3/24, 4/24 & 25 Wise Avenue, Seaford <p>Austin Road / Excelsior Avenue Drain</p>	<p>VICSES to respond on a request-by-request basis</p> <p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding.</p> <p>The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<p>31 Properties in Total</p> <ul style="list-style-type: none"> • 1/11, 1/32, 2/32 & 34 Cumberland Drive, Seaford • 30, 5/32, 1/36, 2/36, 3/36, 5/36, 1/42, 2/42, 3/42, 4/42, 5/42, 6/42, 7/42, 8/42, 3/46-48, 4/46-48 & 5/46-48 Hartnett Drive, Seaford • 7 & 24-26 Heversham Drive, Seaford • 1/2-8, 2/2-8, 4/2-8, 5/2-8, 6/2-8, 7/2-8 & 8/2-8 Peninsula Boulevard, Seaford • 111-113 Seaford Place, Seaford <p>Lee Street Drain</p> <p>183 Properties in Total</p> <ul style="list-style-type: none"> • 2 & 4 Alice Grove, Frankston • 4, 5 & 6 Baillie Court, Frankston • 35-39, 41-45, 47, 53, 53A, 53B, 53C, 53D, 53E, 53F, 53G, 59-63, 1/65-67, 2/65-67, 3/65-67, 3/69, 5/69, 77, 79, 91, 93, 1/102, 2/102, 104, 134, 136-138, 141, 143, 145, 147, 149 & 158 Beach Street, Frankston • 9 Casale Court, Frankston • 14-16 & 21 Catherine Parade, Frankston • 80, 86, 87 & 119A Cranbourne Road, Frankston • 11, 13 & 23 Dandenong Road, Frankston • 9, 11 & 13 Darius Avenue, Frankston • 3, 27, 1/29, 2/29, 2/29A, 3/29, 3/29A, 4/29A, 5/29, 2/31, 3/31, 6/33, 7/33 & 8/33 Deane Street, Frankston • 12 & 13 Ellesmere Court, Frankston • 1, 2, 3 & 4 Emora Court, Frankston • 25 Fletcher Road, Frankston - Buildings: L & N • 55, 56 & 58 Franciscan Avenue, Frankston • 1/1 & 3/1 Franklin Court, Frankston • 4 & 6 Glenview Crescent, Frankston • 27 Gulwa Avenue, Frankston • 2/17-19, 3/17-19, 6/17-19, 8/17-19, 9/17-19, 11/17-19, 12/17-19, 13/17-19, 1/21-23, 3/21-23, 4/21-23, 5/21-23, 8/21-23, 12/21-23, 14/21-23, 1/25, 2/25, 3/25, 4/25, 5/25, 6/25 & 7/25 Hill Street, Frankston • 1/104, 3/104, 8/104, 9/104, 11/104, 12/104, 13/104, 14/104, 106, 1/108, 2/108, 109, 110 & 111 Hillcrest Road, Frankston • 4 & 6 Iranda Street, Frankston • 2/26, 3/26, 28, 29 & 31 James Street, Frankston • 28 & 30 Joy Street, Frankston • 46 & 1/49A Kenilworth Avenue, Frankston • 14, 20 & 23 Leawarra Parade, Frankston • 1, 11, 12, 13 & 22 Lee Street, Frankston • 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 1/6, 5/6, 1/11, 2/11, 5/11 & 6/11 Lewis Street, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 48, 50, 52, 54 & 56 Lipton Drive, Frankston • 10, 20, 48, 50, 52, 55 & 60 McMahons Road, Frankston • 2, 7, 3/10, 4/10 & 17 Nursery Avenue, Frankston • 58 Partridge Crescent, Frankston • 1/5 & 2/5 Petrie Street, Frankston • 6 Quandong Court, Frankston • 3 & 5 Raphael Crescent, Frankston • 4, 5/8, 9/8, 10/8, 1/9, 2/9, 9A, 16, 1/18, 2/18, 3/18, 4/18, 6/18, 7/18, 8/18, 9/18, 11/18, 13/18, 15/18, 20 & 4/22 Reservoir Road, Frankston • 5 Silas Avenue, Frankston • 26 Willis Street, Frankston • Sandgate Avenue Drain • 123 Properties in Total • 42, 44, 46, 48, 58, 60, 62, 85, 96 & 98 Bondi Avenue • 21, 37, 38, 49, 51, 62, 64, 65, 68, 70, 72, 74 & 76 Brooklyn Avenue, Frankston • 1/14 & 2/14 Burns Street, Frankston • 15 & 17 Cambridge Street, Frankston • 3 Coogee Avenue, Frankston • 1/43A, 49 & 53 Foot Street, Frankston • 11 & 30-36 Frankston-Flinders Road, Frankston • 5, 9 & 18 Glenelg Avenue, Frankston • 43, 47, 49, 51 & 71 Golf Links Road, Frankston • 20 & 22 Grady Court, Frankston South • 14 & 18 Guilford Close, Frankston • 3 Hastings Road, Frankston • 14, 16, 18 & 18A Heatherhill Road, Frankston • 4, 6, 10, 12, 13, 15 & 22 Helvetia Court, Frankston • 1/5, 2/5 & 3/5 Hillcrest Road, Frankston • 3, 4 & 5 Lansvale Court, Frankston • 45 Margate Avenue, Frankston • 11 & 13 McMahons Road, Frankston • 19, 28, 35A & 1/37 McMurtry Way, Frankston • 13 & 27 Mincha Street, Frankston • 1, 3, 5, 7, 9, 11, 13, 17, 19 & 21 Netherplace Drive, Frankston • 1/15, 2/15 & 22 Oxford Street, Frankston • 5 Putney Lane, Frankston • 11, 1/12, 2/12, 13, 1/14A, 2/14A, & 3/15 Reid Street, Frankston • 6 Roberts Street, Frankston • 6, 7, 9 & 10 Rosewood Court, Frankston • 6 Sandgate Avenue, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 6, 7, 1/10, 2/10, 3/10, 4/10 & 5/10 Screen Street, Frankston • 24 & 26 Shearer Court, Frankston South • 2 & 3 Tarook Court, Frankston • 18 Towerhill Road, Frankston • 21 &, 32 Warrain Street, Frankston • 1/140, 3/140, 4/140 & 5/140 Williams Street, Frankston • 1B Winifred Street, Frankston <p>Wells Road Drain</p> <p>3 Properties in Total</p> <ul style="list-style-type: none"> • 3/63, 4/63 & 5/63 Brunel Road, Seaford <p>Community Infrastructure Flooded</p> <p>Austin Road / Excelsior Avenue Drain</p> <ul style="list-style-type: none"> • Seaford Heights Preschool on Prince Crescent, Seaford flooded • Grounds of the Belvedere Park Primary School on Belvedere Road, Seaford flooded <p>Lee Street Drain</p> <ul style="list-style-type: none"> • Grounds of the Erinwood Preschool flooded on Raphael Crescent, Frankston <p>Essential Infrastructure Impacted</p> <ul style="list-style-type: none"> • Frankston SES LHQ on McCulloch Street flooded • Parts of the City of Frankston Municipal Depot on Buna Avenue, Seaford flooded • Electrical Substation on Wright Street, Seaford flooded <p>Water Over Road (Over 300mm Depth)</p> <p>Seaford Lowlands / Bardia Avenue / Skye / Karingal Drains</p> <ul style="list-style-type: none"> • Austin Road, Seaford between Mitchell Street and Frankston Freeway • Hummerstone Road, Seaford • Ilma Court, Seaford • Admans Avenue, Seaford • Scott Street, Seaford • Erwin Drive, Seaford • Arden Court, Seaford • Michael Court, Seaford • Hunt Drive, Seaford • Valerie Court, Seaford • Jonstone Street, Seaford • Raymond Road, Seaford • Wise Avenue, Seaford • Martha Street, Seaford • Miles Grove, Seaford • Bayside Grove, Seaford 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Martin Street, Seaford • Levuka Street, Seaford • Bardia Avenue, Seaford • Govan Street, Seaford • Gray Street, Seaford • Moresby Avenue, Seaford • Milne Avenue, Seaford • Patrick Court, Seaford • Kananook Avenue, Seaford • Fortescue Avenue, Seaford • Rosslyn Avenue, Seaford • Kirkwood Avenue, Seaford • McCulloch Avenue, Seaford • Easton Avenue, Seaford • Quinn Street, Seaford • Wright Street, Seaford • Bruce Street, Seaford • Elliott Street, Seaford • Manning Road, Seaford • Claude Street, Seaford • Jubilee Avenue, Seaford • Lyster Close, Seaford • Rosslyn Court, Seaford • Boonong Avenue, Seaford • Wisewould Avenue, Seaford • Carder Avenue, Seaford • Duncan Avenue, Seaford • New Street, Frankston • Balwyn Street, Frankston • Rosella Street, Frankston • Kookaburra Street, Frankston • Tooyal Street, Frankston • Finch Street, Frankston • Douglas Grove, Frankston • Mereweather Avenue, Frankston • Sheridan, Avenue, Frankston • Dandenong Road East, Frankston at Hope Court • Austin Road / Excelsior Avenue Drain • Pecan Court, Frankston North 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Alde Court, Frankston North • Bursaria Crescent, Frankston North • Pimpala Avenue, Seaford • Sussex Crescent, Seaford • Henry Crescent, Seaford • Prince Crescent, Seaford • Elisdon Drive, Seaford • Carrington Court, Seaford • Fern Court, Seaford • Molesworth Street, Seaford • Wicklow Street, Seaford • Galway Street, Seaford • Heversham Drive, Seaford Lee Street Drain • Partridge Crescent, Frankston at roundabout intersection • Ellesmere Court, Frankston • Franciscan Avenue, Frankston at Gattinara Drive • Raphael Crescent, Frankston at Erinwood Pre-school • Macrosty Court, Frankston • Heatherhill Road, Frankston at Lochaber Avenue • Baillie Court, Frankston • Willow Road, Frankston near railway line • Lipton Drive, Frankston • Quandong Court, Frankston • Lee Street, Frankston at Glenview Crescent • Hillcrest Road, Frankston • Iranda Street, Frankston • Emora Court, Frankston • Nursery Avenue, Frankston • Deane Street, Frankston near Cranbourne Road • Cranbourne Road, Frankston east of Moorooduc Highway Intersection • Beach Street, Frankston between Fletcher Road and Kelman Street • Catherine Parade, Frankston • James Street, Frankston • Petrie Street, Frankston • Lewis Street, Frankston • Erskine Street, Frankston Sandgate Avenue Drain • Young Street, Frankston at Frankston Park 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> Reid Street, Frankston Cambridge Street, Frankston Winifred Street, Frankston Murawa Street, Frankston Mincha Street, Frankston Coogee Avenue, Frankston Erica Street, Frankston Wells Road Drain Brunel Road, Seaford 	
<p>21mm in 10 mins; 34mm in 30 mins; 44mm in 1 hour; 56mm in 2 hours; 83mm in 6 hours; or 106mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>1% AEP (100-year ARI)</p>	<p>Properties at Flood Risk (Over-Floor) 1558 Properties in Total Seaford Lowlands / Bardia Avenue / Skye / Karingal Drains 1041 Properties in Total</p> <ul style="list-style-type: none"> 7, 8 & 82 Arden Court, Seaford 8, 1/13, 2/13, 3/13, 4/13, 5/13, 1/15, 2/15, 3/15, 4/15, 5/15, 6/15, 7/15, 8/15, 9, 15, 10/15, 17, 18, 1/20, 2/20, 3/20, 4/20 & 5/20 Bainbridge Avenue, Seaford 2, 4, 6, 8, 10, 24, 38, 1/40, 2/40, 42, 44, 48, 50, 58, 68, 1/72, 2/72, 3/72, 1/76, 2/76, 3/76, 4/76, 78, 1/80, 2/80, 3/80, 1/84 & 2/84 Bardia Avenue, Seaford 1, 2B, 3, 4, 6, 7, 13, 14, 15, 16, 18, 19, 20, 21A, 22, 23, 24, 25, 26, 27, 28, 29, 31, 33, 35, 37, 39, 1/41, 2/41, 3/41 & 43 Bayside Grove, Seaford 2 Benton Avenue, Seaford 1, 3, 7, 9, 27, 29, 31, 33, 1/34, 2/34, 4/34, 5/34, 35 & 37 Boonong Avenue, Seaford 2, 8, 14 & 16 Bragge Street, Frankston 5, 10, 12, 14 & 17 Buna Avenue, Seaford 1/1, 2/1, 3/1, 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 10/2, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 4, 1/7, 2/7, 3/7, 1/8, 2/8, 3/8, 4/8, 1/8A, 2/8A, 3/8A, 4/8A, 1/9, 2/9, 3/9, 1/10, 2/10, 3/10, 4/10, 11, 12, 1/14, 2/14, 3/14, 4/14, 1/16, 2/16, 3/16, 4/16, 5/16, 1/18, 2/18, 3/18, 4/18, 5/18, 1/20, 2/20, 3/20, 4/20, 5/20, 1/22, 2/22, 3/22, 4/22, 5/22, 1/23, 2/23, 3/23, 4/23, 1/17, 2/27, 3/27, 4/27 & 5/27 Carder Avenue, Seaford 23, 24, 25, 27, 29, 31, 33, 35, 38, 40 & 42 Claude Street, Seaford 78, 80, 82, 86, 90, 94, 35/106, 36/106, 37/106 & 38/106 Dandenong Road West, Frankston 11 Donald Avenue, Frankston 1, 5/2, 6/2, 4 & 5 Douglas Grove, Frankston 1/11, 2/11, 3/11, 4/11, 5/11, 6/11, 7/11, 8/11, 9/11, 10/11, 1/13, 2/13, 3/13, 4/13, 5/13, 6/13, 7/13, 8/13, 9/13, 10/13, 11/13, 12/13, 1/15, 2/15, 3/15, 4/15, 17, 17A, 18, 19, 19A, 20, 21, 23, 24, 25, 26 & 27 Duncan Avenue, Seaford 1, 1/3, 2/3, 3/3, 4/3, 5 & 6 Easton Avenue, Seaford 7, 9, 11, 13 & 15 Elliott Street, Seaford 4, 14, 16, 18, 20 & 22 Elsie Avenue, Seaford 	<p>VICSES to respond on a request-by-request basis</p> <p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding.</p> <p>The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 31, 33, 35 & 39 Evelyn Street, Frankston • 45, 69, 79, 89, 93, 95, 99, 101, 107, 115, 121, 174, 176 & 178 Fortescue Avenue, Seaford • 144, 148, 150, 164 & 168 Frankston-Dandenong Road, Seaford • 2, 4, 1/6, 2/6, 7, 1/12, 2/12, 3/12, 4/12, 15, 17, 1/8, 2/18, 3/18, 19, 22, 24 & 26 Govan Street, Seaford • 3 & 8 Grant Avenue, Seaford • 1, 3, 4, 5, 6, 8, 11 & 12 Gray Street, Seaford • 1, 3, 5, 9 & 13 Hadley Street, Seaford • 26 Hannah Street, Seaford • 3 & 5 Hunt Drive, Seaford • 10 Ilma Court, Seaford • 1, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7, 9 & 11 Inglis Avenue, Frankston • 42 Johnstone Street, Seaford • 2, 4, 6, 7, 9, 11, 13, 17 & 19 Jubilee Avenue, Seaford • 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 1/30, 2/30, 31, 32, 33, 34, 35, 36, 36A, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 50, 52, 53, 54, 56, 57, 59, 60, 62, 63, 65, 66, 68, 68A, 69, 70, 70A, 71, 72, 74, 76, 77, 78, 80, 82, 84, 85, 87, 89, 90, 92, 93, 94A, 95, 1/96, 2/96, 3/96, 97, 99, 100, 102, 103, 104, 106, 107, 108, 109, 111, 112, 1/113, 2/113, 116, 117, 118, 119, 120, 122, 124, 125, 128, 132, 134, 135, 1/136, 2/136, 137, 139, 141, 143 & 145 Kananook Avenue, Seaford • 2, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 1/19, 2/19, 3/19, 4/19, 20, 24, 27, 33, 40, 46, 54, 67, 77, 88, 91, 93, 95, 97, 99, 100, 1/102, 2/102, 3/102, 103, 104, 105, 107, 110, 112, 114, 116 & 118 Kirkwood Avenue, Seaford • 4, 1/6, 2/6, 8, 10, 12, 14 & 20 Kitson Street, Frankston • 3, 2/9, 3/9, 10, 11, 8/12, 9/12, 15, 16A, 16B, 17, 22, 23, 24, 26, 1/30, 2/30, 3/30, 31, 35, 36, 37, 39 & 41 Kookaburra Street, Frankston • 3, 5, 7, 1/15, 4/15 & 27 Levuka Street, Seaford • 13, 15, 17, 19 & 21 Lyster Close, Seaford • 3, 5, 7, 8, 10, 12, 13, 15, 16, 20, 22, 24, 31, 33 & 35 Mahoney Crescent, Seaford • 1, 2, 3, 4, 5, 6, 7 & 8 Manning Road, Seaford • 1, 3, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 7, 11, 1/12, 2/12, 14, 16, 17, 19 & 21 Martha Street, Seaford • 2 & 4 Martin Street, Seaford • 2, 4, 6, 8, 10, 14, 29, 30, 31, 1/33, 2/33, 34, 35, 36, 37, 39, 43 & 45 McCulloch Avenue, Seaford • 3, 4 & 5 McMannis Way, Seaford • 14, 16, 18, 19, 1/20, 2/20, 3/20, 4/20, 5/20, 22, 23, 25, 27, 29, 31, 32, 33, 35 & 36 Mereweather Avenue, Frankston • 30, 42, 47, 53, 63, 71, 79, 85 & 89 Miles Grove, Seaford 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 1, 14, 15, 1/19, 2/19, 21, 25, 25A, 27, 31, 35, 37 & 39 Milne Avenue, Seaford • 1/35 & 2/35 Molesworth Street, Seaford • 1, 2A, 3, 3A, 5, 7, 9, 11, 13, 15, 17, 10/19, 11/19, 1/22, 2/22, 3/22, 25, 25A, 27, 30, 31, 41, 43, 45, 47 & 49 Moresby Avenue, Seaford • 365 Nepean Highway, Frankston • 1, 1/2, 2/2, 3, 1/4, 2/4, 3/4, 4/4, 5, 9, 11, 18, 20, 1/23, 2/23, 3/23, 4/23, 5/23, 6/23, 1/24, 3/24, 4/24, 5/24, 6/24, 7/24, 8/24, 26, 27, 33, 35, 37M, 39, 40, 41, 46, 50 & 56 New Street, Frankston • 12/1, 13/1, 14/1, 17/1, 18/1, 20/1, 21/1, 22/1, 23/1, 24/1, 25/1, 26/1, 27/1, 28/1, 29/1, 30/1, 31/1, 32/1, 33/1, 40/1, 41/1, 42/1, 43/1, 45/1, 46/1, 47/1, 48/1, 49/1, 50/1, 51/1, 52/1, 53/1, 54/1, 55/1, 56/1, 57/1, 58/1, 86/1, 87/1, 88/1, 89/1, 90/1, 91/1, 92/1, 93/1, 94/1, 95/1, 96/1, 98/1, 99/1, 100/1, 101/1, 102/1, 103/1, 104/1, 105/1, 110/1, 111/1, 112/1, 1/5, 2/5, 4/5, 11, 13, 17, 19, 1/21, 2/21, 3/21, 23, 24 & 28 Overton Road, Seaford • 1, 2, 6, 1/7, 2/7, 3/7, 4/7, 5/7, 1/10, 2/10, 3/10, 4/10, 5/10, 12, 1/13, 2/13, 14, 15A, 1/17, 2/17 & 18 Patrick Court, Seaford • 2, 4, 1/9, 2/9 & 3/9 Phillip Street, Frankston • 11, 13, 15, 17, 19, 21, 23, 25, 27, 31, 37, 39, 41 & 43 Quinn Street, Seaford • 1, 1/4, 2/2, 3/2, 4/2, 5/2, 3, 5, 6, 7, 8, 1/10, 2/10, 11 & 14 Raymond Road, Seaford • 1/2, 2/2, 3/2, 4/2, 4B, 6, 1/8, 2/8 & 3/8 Ropley Grange, Frankston • 1, 3/3, 4/3, 5/2, 4, 6, 14, 20 & 22 Rosella Street, Frankston • 1, 2, 6, 7, 8, 9, 10, 11, 13, 15, 17, 18, 20, 23, 26, 27, 28, 32, 33, 36, 37, 39, 43, 44, 55, 56A, 59, 60, 61, 64, 75 & 147 Rosslyn Avenue, Seaford • 2, 4 & 5 Rosslyn Court, Seaford • 25, 27, 28, 29, 32, 33, 34, 36, 37, 40, 53A, 55, 60, 62, 64, 65, 66, 68, 70, 72, 73, 74 & 76 Seaford Grove, Seaford • 2, 3, 11, 12 & 14 Sheridan Avenue, Frankston • 7, 1/9, 2/9, 3/9, 4/9, 10, 12, 14, 15, 16, 18, 26, 28, 1/30, 2/30, 2, 32, 4, 6, 6, 8, 9, 13, 16, 18, 26, 28, 1/30 & 2/30 Tooyal Street, Frankston • 2 & 32 Weatherston Road, Seaford • 4, 6, 8, 9, 13, 16, 35, 36, 37, 39, 45 & 50 Wells Road, Seaford • 1, 1/2, 2/2, 3, 5, 6, 7, 8, 9, 10, 1/11, 2/11, 12, 1/15, 2/15, 3/15, 16, 17, 18, 1/19, 2/19, 1/20, 2/20, 21, 22, 23, 1/24, 2/24, 3/24, 4/24 & 25 Wise Avenue, Seaford • 1/2, 2/2, 3/2, 1/4, 2/4, 4/4, 5/4, 6/4, 7/4, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 1/12, 2/12, 3/12, 4/12, 5/12, 6/12, 1/13, 2/13, 3/13, 4/13, 5/13, 6/13, 7/13, 10/13, 11/13, 12/13, 13/13, 14/13, 15/13, 16/13, 3/19, 4/19, 5/19, 6/19, 7/19, 8/19, 10/19, 1/24, 2/24, 3/24, 4/24, 1/28 & 2/28 Wisewould Avenue, Seaford <p>Austin Road / Excelsior Avenue Drain</p> <p>35 Properties in Total</p> <ul style="list-style-type: none"> • 1/11, 2/11, 21-23, 1/32, 2/32 & 34 Cumberland Drive, Seaford • 30, 5/32, 1/36, 2/36, 3/36, 4/36, 5/36, 6/36, 1/42, 2/42, 3/42, 4/42, 5/42, 6/42, 7/42, 8/42, 3/46-48, 4/46-48 & 5/46-48 Hartnett Drive, Seaford 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 7 & 24-26 Heversham Drive, Seaford • 1/2-8, 2/2-8, 4/2-8, 5/2-8, 6/2-8, 7/2-8 & 8/2-8 Peninsula Boulevard, Seaford • 111-113 Seaford Place, Seaford • Lee Street Drain • 284 Properties in Total • 2, 4 & 6A Alice Grove, Frankston • 2, 4, 5 & 6 Baillie Court, Frankston • 35-39, 41-45, 47, 53, 53A, 53B, 53C, 53D, 53E, 53F, 53G, 59-63, 1/65-67, 2/65-67, 3/65-67, 3/69, 5/69, 1/73-75, 2/73-75, 3/73-75, 4/73-75, 5/73-75, 77, 79, 81, 83, 91, 93, 1/102, 2/102, 104, 134, 136-138, 139, 141, 143, 145, 147, 149, 151-153 & 158 Beach Street, Frankston • 9 Casale Court, Frankston • 12, 14-16, 21, 1/25 & 2/25 Catherine Parade, Frankston • 1 Cooba Place, Frankston • 80, 86, 87, 111 & 119A Cranbourne Road, Frankston • 11, 13, 2/15-17, 3/15-17, 4/15-17, 5/15-17, 6/15-17, 21 & 23 Dandenong Road, Frankston • 9, 11 & 13 Darius Avenue, Frankston • 1B, 3, 5, 27, 1/29, 1/29A, 2/29, 2/29A, 3/29, 3/29A, 4/29, 4/29A, 5/29, 2/31, 3/31, 6/33, 7/33, 8/33, 9/33, 10/33 & 11/33 Deane Street, Frankston • 14 Devereaux Court, Frankston • 12 & 13 Ellesmere Court, Frankston • 1, 2, 3 & 4 Emora Court, Frankston • 12 Erskine Street, Frankston • 2 Finlay Street, Frankston • 25 Fletcher Road, Frankston - Buildings: J, K, L, N, O & R • 38, 52, 54, 55, 56, 58, 60 & 62 Franciscan Avenue, Frankston • 1/1, 3/1 & 12 Franklin Court, Frankston • 43 Gattinara Drive, Frankston • 1, 3, 4, 5, 6 & 8 Glenview Crescent, Frankston • 6, 8, 10, 23, 25 & 27 Gulwa Avenue, Frankston • 2/12-14, 4/12-14, 6/12-14, 8/12-14, 10/12-14, 2/17-19, 3/17-19, 6/17-19, 8/17-19, 9/17-19, 10/17-19, 11/17-19, 12/17-19, 13/17-19, 1/21-23, 3/21-23, 4/21-23, 5/21-23, 6/21-23, 7/21-23, 8/21-23, 12/21-23, 14/21-23, 1/25, 2/25, 3/25, 4/25, 5/25, 6/25 & 7/25 Hill Street, Frankston • 98, 1/104, 3/104, 8/104, 9/104, 11/104, 12/104, 13/104, 14/104, 106, 107, 1/108, 2/108, 109, 110 & 111 Hillcrest Road, Frankston • 4 & 6 Iranda Street, Frankston • 1/26, 2/26, 3/26, 28, 29 & 31 James Street, Frankston • 27, 28 & 30 Joy Street, Frankston • 5 Kandy Court, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 46, 1/49A, 3/49A & 51 Kenilworth Avenue, Frankston • 21 Kildare Court, Frankston • 14, 20, 22, 23 & 24 Leawarra Parade, Frankston • 1, 11, 12, 13, 16, 18 & 22 Lee Street, Frankston • 9 Lefevre Court, Frankston • 3, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 1/6, 5/6, 1/11, 2/11, 5/11, 6/11 & 19 Lewis Street, Frankston • 48, 50, 52, 54 & 56 Lipton Drive, Frankston • 1 & 9 Macrosty Court, Frankston • 3 Marillac Court, Frankston • 7, 10, 11, 13, 20, 48, 50, 52, 55 & 60 McMahons Road, Frankston • 2, 3, 7, 9, 2/10, 3/10, 4/10, 17 & 19 Nursery Avenue, Frankston • 2, 3, 7, 9, 2/10, 3/10, 4/10, 17 & 20 Olympic Avenue, Frankston • 47 & 58 Partridge Crescent, Frankston • 1/5 & 2/5 Petrie Street, Frankston • 19 Quamby Avenue, Frankston • 6 Quandong Court, Frankston • 3 & 5 Raphael Crescent, Frankston • 4, 6, 5/8, 7/8, 8/8, 9/8, 10/8, 1/9, 2/9, 9A, 16, 1/18, 2/18, 3/18, 4/18, 5/18, 6/18, 7/18, 8/18, 9/18, 11/18, 13/18, 15/18, 20, 3/22 & 4/22 Reservoir Road, Frankston • 5 Silas Avenue, Frankston • 99 Sycamore Road, Frankston South • 11 & 14 Taverner Square, Frankston • 5 Turnberry Court, Frankston • 26 & 28A Willis Street, Frankston • 116 Willow Road, Frankston • Sandgate Avenue Drain • 195 Properties in Total • 4, 6, 8 & 10 Bardwell Avenue, Frankston • 24, 38, 40, 42, 44, 46, 48, 58, 60, 62, 85, 92, 94, 96 & 98 Bondi Avenue • 19, 21, 37, 38, 40, 45, 47, 49, 51, 53, 55, 62, 63, 64, 65, 67, 68, 69, 70, 72, 74 & 76 Brooklyn Avenue, Frankston • 1/14 & 2/14 Burns Street, Frankston • 15 & 17 Cambridge Street, Frankston • 1 & 3 Coogee Avenue, Frankston • 9 & 10 Crathie Court, Frankston • 8, 12, 1/43A, 2/43A, 43B, 43C, 45, 47, 49, 51, 53, 55 & 57 Foot Street, Frankston • 11, 30-36, 2/44, 3/44, 4/44, 5/44, 47-49, 50 & 145 Frankston-Flinders Road, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • 5, 9 & 18 Glenelg Avenue, Frankston • 43, 47, 49, 51 & 71 Golf Links Road, Frankston • 18, 20 & 22 Grady Court, Frankston South • 12, 14 & 18 Guilford Close, Frankston • 3 & 35 Hastings Road, Frankston • 12, 14, 16, 18 & 18A Heatherhill Road, Frankston • 4, 6, 10, 12, 13, 15 & 22 Helvetia Court, Frankston • 1/5, 2/5 & 3/5 Hillcrest Road, Frankston • 3, 4, 5 & 6 Lansvale Court, Frankston • 45 Margate Avenue, Frankston • 12, 14, 18, 19, 21, 25, 26, 27, 28, 35, 35A, 1/37, 2/37 & 39 McMurtry Way, Frankston • 13 & 27 Mincha Street, Frankston • 1, 3, 5, 7, 9, 11, 13, 15, 17, 19 & 21 Netherplace Drive, Frankston • 1/15, 2/15 & 22 Oxford Street, Frankston • 4, 5 & 7 Putney Lane, Frankston • 11, 1/12, 2/12, 13, 1/14A, 2/14A, 1/15, 3/15, 1/18 & 2/18 Reid Street, Frankston • 6 & 16-18 Roberts Street, Frankston • 6, 7, 8, 9 & 10 Rosewood Court, Frankston • 1 & 6 Sandgate Avenue, Frankston • 6, 7, 1/10, 2/10, 3/10, 4/10 & 5/10 Screen Street, Frankston • 20, 22, 24 & 26 Shearer Court, Frankston South • 10 St Johns Avenue, Frankston • 2 & 3 Tarook Court, Frankston • 18 Towerhill Road, Frankston • 1B, 21, 32 & 36 Warrain Street, Frankston • 1/140, 2/140, 3/140, 4/140 & 5/140 Williams Street, Frankston • 1B Winifred Street, Frankston • 1 Yuille Street, Frankston • Wells Road Drain • 3 Properties in Total • 3/63, 4/63 & 5/63 Brunel Road, Seaford • Community Infrastructure Flooded • Austin Road / Excelsior Avenue Drain • Seaford Heights Preschool on Prince Crescent, Seaford flooded • Grounds of the Belvedere Park Primary School on Belvedere Road, Seaford flooded • Lee Street Drain • Grounds of the Erinwood Preschool flooded on Raphael Crescent, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Essential Infrastructure Impacted • Frankston SES LHQ on McCulloch Street flooded • Parts of the City of Frankston Municipal Depot on Buna Avenue, Seaford flooded • Electrical Substation on Wright Street, Seaford flooded • The Frankston and Stony Point Railway Line may have low level flooding crossing the tracks at various locations during a 1% AEP flood. Unknown whether this will force the closure of the line. • Water Over Road (Over 300mm Depth) • Seaford Lowlands / Bardia Avenue / Skye / Karingal Drains • Austin Road, Seaford between Mitchell Street and Frankston Freeway • Hummerstone Road, Seaford • Ilma Court, Seaford • Admans Avenue, Seaford • Robinsons Road, Seaford • Scott Street, Seaford • Erwin Drive, Seaford • Arden Court, Seaford • Michael Court, Seaford • Hunt Drive, Seaford • Valerie Court, Seaford • Jonstone Street, Seaford • Raymond Road, Seaford • Wise Avenue, Seaford • Martha Street, Seaford • Miles Grove, Seaford • Bayside Grove, Seaford • Martin Street, Seaford • Levuka Street, Seaford • Bardia Avenue, Seaford • Govan Street, Seaford • Gray Street, Seaford • Moresby Avenue, Seaford • Milne Avenue, Seaford • Patrick Court, Seaford • Kananook Avenue, Seaford • Fortescue Avenue, Seaford • Rosslyn Avenue, Seaford • Kirkwood Avenue, Seaford • McCulloch Avenue, Seaford 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Easton Avenue, Seaford • Quinn Street, Seaford • Wright Street, Seaford • Bruce Street, Seaford • Elliott Street, Seaford • Manning Road, Seaford • Claude Street, Seaford • Jubilee Avenue, Seaford • Lyster Close, Seaford • Rosslyn Court, Seaford • Boonong Avenue, Seaford • Wisewould Avenue, Seaford • Carder Avenue, Seaford • Duncan Avenue, Seaford • Overton Road, Frankston • New Street, Frankston • Balwyn Street, Frankston • Rosella Street, Frankston • Kookaburra Street, Frankston • Tooyal Street, Frankston • Bragge Street, Frankston • Finch Street, Frankston • Douglas Grove, Frankston • Mereweather Avenue, Frankston • Sheridan Avenue, Frankston • Dandenong Road East, Frankston • Austin Road / Excelsior Avenue Drain • Pecan Court, Frankston North • Alde Court, Frankston North • Bursaria Crescent, Frankston North • Pimpala Avenue, Seaford • Sussex Crescent, Seaford • Henry Crescent, Seaford • Prince Crescent, Seaford • Elisdon Drive, Seaford • Carrington Court, Seaford • Fern Court, Seaford • Molesworth Street, Seaford • Wicklow Street, Seaford 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Young Street, Seaford • Galway Street, Seaford • Heversham Drive, Seaford Lee Street Drain • Partridge Crescent, Frankston at roundabout intersection • Ellesmere Court, Frankston • Franciscan Avenue, Frankston at Gattinara Drive • Raphael Crescent, Frankston at Erinwood Pre-school • Macrosty Court, Frankston • Heatherhill Road, Frankston at Lochaber Avenue • Baillie Court, Frankston • Willow Road, Frankston near railway line • Lipton Drive, Frankston • Quandong Court, Frankston • Lee Street, Frankston at Glenview Crescent • Hillcrest Road, Frankston • Iranda Street, Frankston • Emora Court, Frankston • Nursery Avenue, Frankston • Deane Street, Frankston near Cranbourne Road • Cranbourne Road, Frankston east of Moorooduc Highway Intersection • Beach Street, Frankston between Fletcher Road and Kelman Street • Catherine Parade, Frankston • James Street, Frankston • Petrie Street, Frankston • Lewis Street, Frankston • Erskine Street, Frankston • Keys Street, Frankston • Thompson Street, Frankston Sandgate Avenue Drain • Young Street, Frankston at Frankston Park • Reid Street, Frankston • Cambridge Street, Frankston • Winifred Street, Frankston • Murawa Street, Frankston • Mincha Street, Frankston • Coogee Avenue, Frankston • Glenelg Avenue, Frankston • Erica Street, Frankston 	

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		Wells Road Drain <ul style="list-style-type: none"> <li data-bbox="638 276 887 300">• Brunel Road, Seaford 	

Table C1.21 – Breakdown of possible consequences at various rainfall intensities around Frankston, Frankston North & Seaford with operational considerations

APPENDIX C2 – CARRUM DOWNS, SKYE & LANGWARRIN 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 in Carrum Downs, Skye & Lanwarrin

Property (Over-Floor Flood Risk)					
Properties	34				
Residential	29				
Commercial	3	Carrum Downs Regional Shopping Centre and Carrum Downs Plaza			
Industrial	2				
Public Land	0				
Rural	0				
Community Infrastructure					
Child Care / Kindergartens	1	Early Learning Centre Carpark on Hall Road			
Community Venues	2	Carrum Downs Regional Shopping Centre; Carrum Downs Plaza			
Essential Infrastructure					
Bus & Tram Routes	3	832 on McCormicks Road and Greenwood Drive; 833 on Lyrebird Drive; 790 on Centre Road and Southgateway			
Drainage & Water Facilities	24	23 Retarding Basins; and 1 Pumping Station			
Levees	3	Boggy Creek X2 and Peninsula Link			
Sewerage Facilities	14	Pumping Stations			
Government Boundaries					
Local Gov't Areas	1	Frankston	CMA	1	Port Phillip & Westernport
Adjacent LGAs	2	Casey; and Greater Dandenong	CFA District	1	District 08
SES Unit Area	1	Frankston	FRV District	0	

Table C2.1 – Consequence Summary of 1% AEP flood in Carrum Downs, Skye & Langwarrin

The Little Boggy Creek catchment begins in Langwarrin, running north-west through Carrum Downs where the creek joins Eel Race Creek to flow into Kananook Creek. A number of stormwater drainage systems feed into either Boggy Creek or Little Boggy Creek from the estates that reside in the area.

Approximately 1197 properties are at risk from flooding in the catchment, with 83 of these at risk of flooding over-floor in a 1% AEP flooding event. Ballarto Road in Skye and Dandenong-Frankston Road in Carrum Downs may need to be closed for a period during a 1% AEP event because of flooding. The carparks of Carrum Downs Regional Shopping Centre and Carrum Downs Plaza may also flood during a 5% AEP and 20% AEP events respectively.

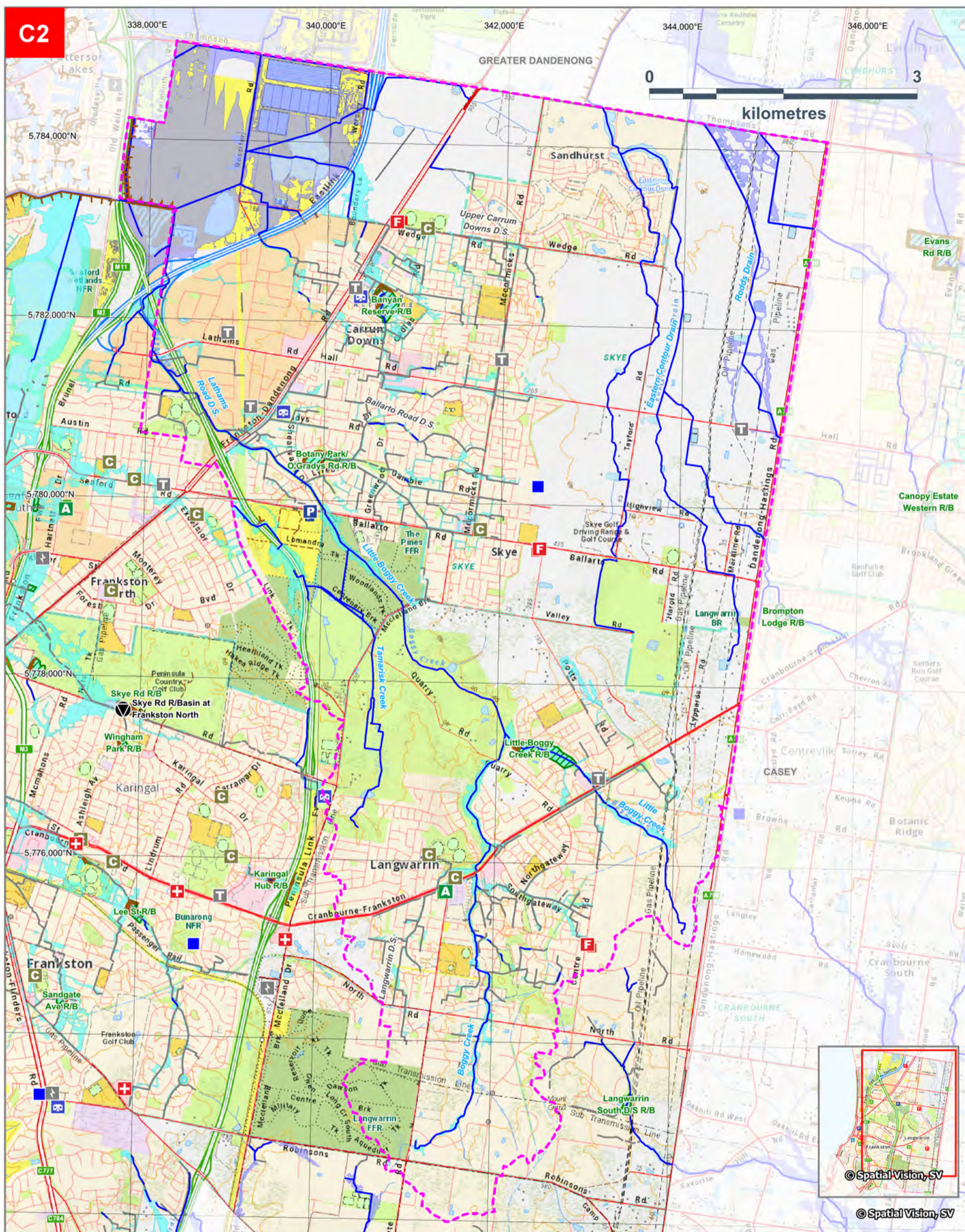
Gauges and Warnings

Neither the Bureau of Meteorology nor Melbourne Water currently provides flood forecasts for the Carrum Downs & Langwarrin areas. All flood response actions must therefore be driven by rainfall and / or river level observations. There are currently no stream level or rain gauges within the Little Bogy Creek catchment. Gauges in Seaford North & Frankston North are the closest available gauges and may provide an indication of rainfall across Carrum Downs & Langwarrin.

Gauge	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Eel Race Drain at Riviera St Culverts, Seaford North	228371A	Pedestrian Crossing along Riviera Street, Seaford	✓	✓	97 D11
Skye Road Retarding Basin at Frankston North	228378A	North side of Skye Road opposite Bokissa Drive, Frankston	✓	✓	99 K12
Eastern Contour Drain at Glasscocks Road, Dandenong South	228233A	North side of Glasscocks Road on Western bank of Eastern Contour Drain, Dandenong South	✓	✓	128 E3
Cranbourne	586375	Royal Botanic Gardens Cranbourne		✓	133 E12

Table C2.2 – Gauges monitoring rainfall near Carrum Downs, Skye and Langwarrin

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 Produced by VICSES December 2020.

CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
C2. Areas of Flood Risk around Carrum Downs, Skye and Langwarrin

- | | | | | | |
|--|----------------------------------|--|------------------------|--|----------------------|
| | Waterbody | | Caravan Park | | Rain Gauge |
| | 1% AEP Flash Flood Extent | | Community Centre | | Stream Level Gauge |
| | 1% AEP Riverine Flood Extent | | Fire Station | | Retail Water Storage |
| | Retarding Basin | | Police Station | | Telephone Exchange |
| | Waterway | | Ambulance Station | | Hospital |
| | Melbourne Water Stormwater Drain | | Power Terminal Station | | |
| | Embankment | | | | |

LAND USE

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

Boundary for this Appendix

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Figure C2 – Areas of flood risk around Carrum Downs, Skye & Langwarrin in Frankston City

Properties at Flood Risk

Properties listed in the table below are at risk from flooding over-floor in Carrum Downs, Skye and Langwarrin. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Ballarto Road Drainage System (GHD, July 2020), the Upper Carrum Downs Drainage System (GHD, July 2020) and the Upper Boggy Creek (GHD, July 2020) flood mapping and risk assessment programs. Note that any multi-lot properties situated above ground floor likely impacted by isolation only with flooding on ground floor impacting access to common areas and/or carpark and storage facilities. Information on above ground-floor properties is not available in this list.

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Properties at risk from Flooding Over-Floor in Carrum Downs, Skye and Langwarrin						
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				
	✓	✓	93 Allied Drive	Carrum Downs	Ballarto Road Drainage System	Flash
	✓	✓	6 Apollo Court	Langwarrin	Little Boggy Creek	Flash
		✓	8/4 Amayla Crescent	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	12/4 Amayla Crescent	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	24 Arlene Drive	Skye	Ballarto Road Drainage System	Flash
	✓	✓	317 Ballarto Road	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	11 Beacon Drive	Langwarrin	Little Boggy Creek	Flash
		✓	83 Broderick Road	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	4 Derby Court	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	5 Derby Court	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	6 Derby Court	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	3 Falkiner Court	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	13 Gleeson Court	Langwarrin	Little Boggy Creek	Flash
	✓	✓	90 Hall Road	Carrum Downs	Upper Carrum Downs D.S.	Flash
	✓	✓	100 Hall Road	Carrum Downs	Upper Carrum Downs D.S.	Flash
		✓	194 Hall Road	Carrum Downs	Upper Carrum Downs D.S.	Flash
	✓	✓	5 Jarman Drive	Langwarrin	Little Boggy Creek	Flash
		✓	52 Jarman Drive	Langwarrin	Little Boggy Creek	Flash
		✓	10 Leffern Court	Carrum Downs	Ballarto Road Drainage System	Flash
	✓	✓	5 Leonard Drive	Langwarrin	Little Boggy Creek	Flash
		✓	7 Leonard Drive	Langwarrin	Little Boggy Creek	Flash
		✓	6/24 McCormicks Road	Skye	Ballarto Road Drainage System	Flash
		✓	61 McCormicks Road	Skye	Ballarto Road Drainage System	Flash
		✓	63 McCormicks Road	Skye	Ballarto Road Drainage System	Flash
		✓	13/15 Peninsula Crescent	Langwarrin	Boggy Creek	Flash
		✓	22/15 Peninsula Crescent	Langwarrin	Boggy Creek	Flash
		✓	23/15 Peninsula Crescent	Langwarrin	Boggy Creek	Flash
		✓	24/15 Peninsula Crescent	Langwarrin	Boggy Creek	Flash
		✓	26/15 Peninsula Crescent	Langwarrin	Boggy Creek	Flash

Properties at risk from Flooding Over-Floor in Carrum Downs, Skye and Langwarrin						
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				
		✓	39/15 Peninsula Crescent	Langwarrin	Boggy Creek	Flash
		✓	4 Swan Court	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	9 Swan Court	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	11 Swan Court	Carrum Downs	Ballarto Road Drainage System	Flash
		✓	18 Veronica Drive	Skye	Ballarto Road Drainage System	Flash
Totals						
0	7	34				

Table C2.3 – Properties at risk of flooding over-floor in Carrum Downs, Skye and Langwarrin

Isolation

No major isolation risks exist for areas around Carrum Downs & Langwarrin 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 for the City of Frankston is available via the website at: https://www.ptv.vic.gov.au/assets/default-site/more/maps/Local-area-maps/Metropolitan/4afa74b3f6/14_Frankston_LAM.pdf

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

Road Closures

The following roads are subject to closure during flooding around Carrum Downs, Skye & Langwarrin. Check the VicRoads website for more details: alerts.vicroads.vic.gov.au

Department of Transport (VicRoads) Roads flooded in a 1% AEP (100yr ARI) event
<ul style="list-style-type: none"> Nil impacted in Carrum Downs, Skye and Langwarrin

Table C2.4 – Department of Transport (VicRoads) Possible Road Closures during a flooding event

Frankston City Council Roads flooded in a 1% AEP (100yr ARI) event			
CARRUM DOWNS	<ul style="list-style-type: none"> Lyrebird Drive 	<ul style="list-style-type: none"> Whipbird Drive 	<ul style="list-style-type: none"> Malcolm Road
<ul style="list-style-type: none"> Amayla Crescent 	<ul style="list-style-type: none"> McCormicks Road 	LANGWARRIN	<ul style="list-style-type: none"> McClelland Drive
<ul style="list-style-type: none"> Arcadia Street 	<ul style="list-style-type: none"> Paddington Avenue 	<ul style="list-style-type: none"> Anthony Street 	<ul style="list-style-type: none"> Peninsula Crescent
<ul style="list-style-type: none"> Aster Avenue 	<ul style="list-style-type: none"> Pardalote Avenue 	<ul style="list-style-type: none"> Centre Road 	<ul style="list-style-type: none"> Southgateway
<ul style="list-style-type: none"> Carmela Way 	<ul style="list-style-type: none"> Polaris Court 	<ul style="list-style-type: none"> Jarman Drive 	SKYE
<ul style="list-style-type: none"> Greenwood Drive 	<ul style="list-style-type: none"> Redgum Avenue 	<ul style="list-style-type: none"> John Street 	<ul style="list-style-type: none"> Coco Parade
<ul style="list-style-type: none"> Jacana Drive 	<ul style="list-style-type: none"> Swan Court 	<ul style="list-style-type: none"> Kerry Street 	<ul style="list-style-type: none"> McCormicks Road
<ul style="list-style-type: none"> Lena Place 	<ul style="list-style-type: none"> Tyntynder Drive 	<ul style="list-style-type: none"> North Road 	<ul style="list-style-type: none"> Veronica Drive

Table C2.5 – Frankston 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	Properties in Flow Path (WD DCF Failure)	Melway Reference
Banyan Reserve	Upper Carrum Downs Drain	7.942 ha	76.3 ML	15.4m AHD	Unavailable	16.0m AHD	High C	Unavailable	98 G12
Botany Park / O'Grady's Road	Ballarto Road Drain	5.471 ha	58.9 ML	18.22m AHD	18.7m AHD	19.15m AHD	High C	Unavailable	100 F5
Langwarrin South	Langwarrin South Drain	4.006 ha	10 ML	nil	61.8m AHD	62.0m AHD	Very Low	0	136 D10
Little Boggy Creek	Little Boggy Creek	6.658 ha	Unavailable	50.7m AHD	51.0m AHD	Unavailable	High A	Unavailable	136 A1
Sandgate Avenue	Sandgate Avenue Drain	3.024 ha	8.3 ML	75.62m AHD	75.61m AHD	75.65m AHD	Very Low	13	102 H8

Table C2.6 – Melbourne Water Retarding Basins within the Little Boggy Creek and Carrum Downs Drains catchments in the City of Frankston

Frankston City Council Retarding Basin	Address	Area	Spillway Crest Level	Full Supply Level	Embankment Crest Level	Properties in Flow Path (WD DCF Failure)	Melway Reference
STUDIO PARK OVERFLOW RETARDING DEVICE	Poplar Grove Langwarrin			59.80	In Cut	0	103 F3
PINDARA RETARDING BASINS	Pindara Boulevard Langwarrin				In Cut	0	103 G2
SKYE VALLEY PARK RETARDING BASIN #1 (Santa Clara Mews)	Santa Clara Mews Skye	370m2				Approx. 5	100 K8
SKYE VALLEY PARK RETARDING BASIN #2 (Rhone Court)	Santa Clara Mews Skye				In Cut	0	100 K9
DIAMOND PARADE RETARDING BASIN	Diamond Parade Carrum Downs				In Cut	0	132 A8
FLAME ROBIN RESERVE RETARDING BASIN (Natural Reserve & Wetland)	North Road Langwarrin				In Cut	0	103 D7
BLACK WALLABY DRIVE RETARDING BASIN (Upper & Lower)	Black Wallaby Drive Langwarrin	4100m2			76.95	Approx. 2	103 E7
STEVENS RESERVE RETARDING BASIN	Stevens Road Langwarrin				In Cut	0	136 A1
PARK VALLEY RESERVE RETARDING BASIN (Natural drainage depression)	Park Valley Crescent Langwarrin				In Cut	0	136 A6
RETARDING BASIN Sediment Basin	Hafey Way Langwarrin				In Cut	0	132 E12
RETARDING BASIN Sediment Basin & WETLAND	Hafey Way Langwarrin				In Cut	0	132 D12

Table C2.7 – Frankston City Council Water Retarding Basins in Carrum Downs, Skye and Langwarrin

Private Water Retarding Basin	On Drain/ Waterway	Area	Spillway Crest Level	Full Supply Level	Embankment Crest Level	Properties in Flow Path (WD DCF Failure)	Melway Reference
BOGGY CREEK Retention Basin and Dwarf Galaxia Habitat	257 North Road Langwarrin				In Cut	0	103 K8
RETENTION BASIN 170 Union Road	170 Union Road Langwarrin				In Cut		103 K8
WATER STORAGE DAM	70 Valley Road Skye				In Cut		100 K9
RETENTION BASIN 70 Protea Street	70 Protea Street Carrum Downs				In Cut		100 H2
SANDHURST RESIDENTIAL ESTATE	75A Sandhurst Boulevard Sandhurst				In Cut		128 C9
SANDARA RESIDENTIAL ESTATE	345 McCormicks Road Sandhurst				In Cut		98 K10
SANDHURST GOLF CLUB	680 Thompsons Road Sandhurst				In Cut		128 C9

Table C2.8 – Private Water Retarding Basins in Carrum Downs, Skye, Sandhurst and Langwarrin

Pumping Stations

Melbourne Water Pumping Station	On Drain / Waterway	Location	No. of Pumps	Consequence of Failure	Melway Reference
Parc Pump	Upper Carrum Downs Drain	Eastern Treatment Plant	1	Loss of environmental flow to Wetland	98 E8

Table C2.7 – Melbourne Water Pumping Stations along the Carrum Downs Drains catchments

Levees

Levee	Reach	Side	Levee Height	Levee Length	Expected Level of Protection	ANCOLD Hazard Rating	Consequences of Failure	Melway Reference
Boggy Creek	Eel Race Drain to Eastlink	East	2.0m	700m	Unavailable	Very Low	Flooding of Boggy Creek Wetland. 0 properties expected to be affected.	98A10-A12
Boggy Creek	Eel Race Drain to Eastlink	West	2.0m	700m	Unavailable	Very Low	Flooding of Boggy Creek Wetland. 0 properties expected to be affected.	98A10-A12
Peninsula Link Bund Wall	Peninsula Link to Tamarisk Creek	East	Unavailable	60m	Unavailable	Unavailable	Unavailable	100 D6

Table C2.8 – Melbourne Water Levees in Carrum Downs, Skye, Sandhurst and Langwarrin

Sewerage Infrastructure

Sewerage Infrastructure of note during a severe flood event located around Carrum Downs, Skye, Sandhurst and Langwarrin are contained within the following table.

Sewerage Pumping Station	On Drain / Waterway	Bank / Side of Waterway	Operator	Location	Melway Reference
Apple Berry Avenue	Tamarisk Creek	East	South East Water	Hanson on McClelland Drive, Langwarrin	103 G2
Aqueduct Road	Local Drainage	-	South East Water	Aqueduct Road, Langwarrin	136 B8
Black Wallaby Drive	Local Drainage	-	South East Water	Black Wallaby Drive, Langwarrin	103 E7
Gateway Drive	Lower Carrum Downs Drain	-	South East Water	Gateway Drive, Carrum Downs	98 D11
Lakewood Boulevard	Lathams Road Drain	-	South East Water	Lakewood Boulevard, Carrum Downs	100 A1
McClelland Drive	Local Drainage	-	South East Water	McClelland Drive, Langwarrin	103 E4
Poplar Grove	Tamarisk Creek	-	South East Water	Sycamore Street, Langwarrin	103 G3
Potts Road	Potts Road West Drain	-	South East Water	Potts Road, Langwarrin	132 B11
Sandhurst Boulevard	Eastern Contour Drain	West	South East Water	Sandhurst Boulevard, Sandhurst	128 D9
Supernatant Pump Station No.4	Eel Race Creek	North	Melbourne Water	Melbourne Water Eastern Treatment Plant, Thompsons Road, Carrum Downs	98 F7
Supernatant Pump Station No.4A	Eel Race Creek	North	Melbourne Water	Melbourne Water Eastern Treatment Plant, Thompsons Road, Carrum Downs	98 F7
Tamara Circuit	Local Drainage	-	South East Water	Tamara Circuit, Langwarrin	132 E12
Valley Road	Local Drainage	-	South East Water	Valley Road, Skye	100 K9
Wadsley Road	Wadsleys Drain	-	South East Water	Wadsley Road, Carrum Downs	97 K7

Table C2.9 – Pumping Stations in Carrum Downs, Skye, Sandhurst and Langwarrin

Control, Command and Coordination

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

Flood Impacts and Operational Considerations (Intelligence Cards)

The tables on the following pages provide a breakdown of the possible consequences of flooding in Carrum Downs, Skye, Sandhurst and Langwarrin at various rain totals within the city of Frankston. 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:

- Stormwater Drains in Carrum Downs & Skye
- Stormwater Drains in Langwarrin

FLOOD INTELLIGENCE CARD – CARRUM DOWNS & SKYE (UNGAUGED)

Version 4 – January 2021



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

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CLOSEST RAIN GAUGE	Eel Race Drain at Riviera St Culverts, Seaford North
LOCATION	Riviera Street, Seaford North
RECENT RAINFALL:	https://www.melbournewater.com.au/water-data-and-education/rainfall-and-river-levels#/reader/228371A

MELWAY REF:	97 D11
GAUGE NUMBER	228371A
GAUGE TYPE	Stream Level & Rain

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
10mm in 10 mins; 17mm in 30 mins; 23mm in 1 hour; 30mm in 2 hours; 45mm in 6 hours; or 57mm in 12 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-Floor) 0 Properties in Total Water Over Road (Over 300mm Depth) <ul style="list-style-type: none"> Lyrebird Drive, Carrum Downs 	VICSES to respond on a request-by-request basis VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements
15mm in 10 mins; 24mm in 30 mins; 31mm in 1 hour; 41mm in 2 hours; 60mm in 6 hours; or 77mm in 12 hours	5% AEP (20-year ARI)	Properties at Flood Risk (Over-Floor) 4 Properties in Total <ul style="list-style-type: none"> 93 Allied Drive, Carrum Downs 317 Ballarto Road, Carrum Downs 90 & 100 Hall Road, Carrum Downs Community Infrastructure Flooded	VICSES to respond on a request-by-request basis VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
<p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>		<ul style="list-style-type: none"> • Carrum Downs Regional Shopping Centre on Hall Road, Carrum Downs flooded Over-Floor with Carpark also Flooded • Carpark of Carrum Downs Plaza on McCormicks Road, Carrum Downs <p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> • Arcadia Street, Carrum Downs • Coco Parade, Skye • Greenwood Drive, Carrum Downs • Jacana Drive, Carrum Downs • Lena Place, Carrum Downs • Lyrebird Drive, Carrum Downs • McCormicks Road, Carrum Downs at Heysen Drive • Parkdale Drive, Carrum Downs • Swan Court, Carrum Downs • Tyntynder Drive, Carrum Downs 	<p>awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>
<p>21mm in 10 mins; 34mm in 30 mins; 44mm in 1 hour; 56mm in 2 hours; 83mm in 6 hours; or 106mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>1% AEP (100-year ARI)</p>	<p>Properties at Flood Risk (Over-Floor)</p> <p>21 Properties in Total</p> <ul style="list-style-type: none"> • 93 Allied Drive, Carrum Downs • 8/4 & 12/4 Amayla Crescent, Carrum Downs • 24 Arlene Drive, Skye • 317 Ballarto Road, Carrum Downs • 83 Broderick Road, Carrum Downs • 4, 5 & 6 Derby Court, Carrum Downs • 3 Falkiner Court, Carrum Downs • 90, 100 & 194 Hall Road, Carrum Downs • 10 Leffer Court, Carrum Downs • 6/24, 61 & 63 McCormicks Road, Skye • 4, 9 & 11 Swan Court, Carrum Downs • 18 Veronica Drive, Skye <p>Community Infrastructure Flooded</p> <ul style="list-style-type: none"> • Carrum Downs Regional Shopping Centre on Hall Road, Carrum Downs flooded Over-Floor with Carpark also Flooded • Carpark of Early Learning Centre (Child Care) on Hall Road, Carrum Downs flooded • Carpark of Carrum Downs Plaza on McCormicks Road, Carrum Downs <p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> • Amayla Crescent, Carrum Downs • Arcadia Street, Carrum Downs • Aster Avenue, Carrum Downs • Carmela Way, Carrum Downs • Coco Parade, Skye • Greenwood Drive, Carrum Downs 	<p>VICSES to respond on a request-by-request basis</p> <p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding.</p> <p>The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
		<ul style="list-style-type: none"> • Jacana Drive, Carrum Downs • Lena Place, Carrum Downs • Lyrebird Drive, Carrum Downs • McCormicks Road, Carrum Downs at Heysen Drive • McCormicks Road, Skye at Stable Grove • Paddington Avenue, Carrum Downs • Parkdale Drive, Carrum Downs • Polaris Court, Carrum Downs • Redgum Avenue, Carrum Downs • Swan Court, Carrum Downs • Tyntynder Drive, Carrum Downs • Veronica Drive, Skye • Whipbird Drive, Carrum Downs 	

Table C1.10 – Breakdown of possible consequences at various rainfall intensities around Carrum Downs and Skye with operational considerations

FLOOD INTELLIGENCE CARD – LANGWARRIN (UNGAUGED)

Version 4 – January 2021



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

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CLOSEST RAIN GAUGE	Skye Road Retarding Basin at Frankston North
LOCATION	Skye Road Retarding Basin, Frankston North
RECENT RAINFALL:	https://www.melbournewater.com.au/water-data-and-education/rainfall-and-river-levels#/reader/228378A

MELWAY REF:	99 K12
GAUGE NUMBER	228378A
GAUGE TYPE	Rain

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
10mm in 10 mins; 17mm in 30 mins; 23mm in 1 hour; 30mm in 2 hours; 45mm in 6 hours; or 57mm in 12 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-Floor) 0 Properties in Total Water Over Road (Over 300mm Depth) <ul style="list-style-type: none"> McClelland Drive, Langwarrin at Little Boggy Creek Crossing (The Pines Reserve) 	VICSES to respond on a request-by-request basis VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based on intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident. Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements
15mm in 10 mins; 24mm in 30 mins; 31mm in 1 hour; 41mm in 2 hours; 60mm in 6 hours; or 77mm in 12 hours	5% AEP (20-year ARI)	Properties at Flood Risk (Over-Floor) 3 Properties in Total <ul style="list-style-type: none"> 6 Apollo Court, Langwarrin 50 Jarman Drive, Langwarrin 5 Leonard Drive, Langwarrin Water Over Road (Over 300mm Depth)	VICSES to respond on a request-by-request basis VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based on intelligence regarding flood levels and the risk of Flash Flooding. The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
<p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>		<ul style="list-style-type: none"> • Anthony Street, Langwarrin • Centre Road, Langwarrin at McKays Road • Jarman Drive, Langwarrin • John Street, Langwarrin • Malcolm Road, Langwarrin • McClelland Drive, Langwarrin at Little Boggy Creek Crossing (The Pines Reserve) • Peninsula Crescent, Langwarrin • Southgateway, Langwarrin at Northgateway 	<p>awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>
<p>21mm in 10 mins; 34mm in 30 mins; 44mm in 1 hour; 56mm in 2 hours; 83mm in 6 hours; or 106mm in 12 hours</p> <p>Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungagged nature of the catchment. This should be used as a guide only.</p>	<p>1% AEP (100-year ARI)</p>	<p>Properties at Flood Risk (Over-Floor) 13 Properties in Total</p> <ul style="list-style-type: none"> • 6 Apollo Court, Langwarrin • 11 Beacon Drive, Langwarrin • 13 Gleeson Court, Langwarrin • 50 & 52 Jarman Drive, Langwarrin • 5 & 7 Leonard Drive, Langwarrin • 13/15, 22/15, 23/15, 24/15, 26/15 & 39/15 Peninsula Crescent, Langwarrin <p>Water Over Road (Over 300mm Depth)</p> <ul style="list-style-type: none"> • Anthony Street, Langwarrin • Centre Road, Langwarrin at McKays Road • Jarman Drive, Langwarrin • John Street, Langwarrin • Kerry Street, Langwarrin • North Road, Langwarrin at Boggy Creek • Malcolm Road, Langwarrin • McClelland Drive, Langwarrin at Little Boggy Creek Crossing (The Pines Reserve) • Peninsula Crescent, Langwarrin • Southgateway, Langwarrin at Northgateway 	<p>VICSES to respond on a request-by-request basis</p> <p>VICSES may provide warnings using EM-COP to Frankston City Council and appropriate agencies as required based intelligence regarding flood levels and the risk of Flash Flooding.</p> <p>The VICSES Central Duty officer in conjunction with the Regional Agency Commander will maintain operational awareness and form an appropriate response arrangement to suit the level of incident.</p> <p>Council and VicRoads (as appropriate) to provide road closure signage under predetermined arrangements</p>

Table C1.11 – Breakdown of possible consequences at various rainfall intensities around Langwarrin with operational considerations

APPENDIX C3 – FRANKSTON SOUTH & LANGWARRIN SOUTH 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 in Frankston South & Langwarrin South

Property at Flood Risk (Over-Floor)					
Properties	1				
Residential	1				
Commercial	0				
Industrial	0				
Public Land	0				
Rural	0				
Community Infrastructure					
Schools / Colleges	1	Woodleigh School – Senior Campus on Golf Links Road, Langwarrin South			
Essential Infrastructure					
Drainage & Water Facilities	5	Retarding Basins			
Sewerage Facilities	3	Pumping Stations			
Government Boundaries					
Local Gov't Areas	1	Frankston	CMA	1	Port Phillip & Westernport
Adjacent LGAs	2	Mornington Peninsula & Casey	CFA District	1	District 08
SES Unit Area	1	Frankston	FRV District	0	

Table C3.1 – Consequence Summary of 1% AEP flood in Frankston South and Langwarrin South

Gauges and Warnings

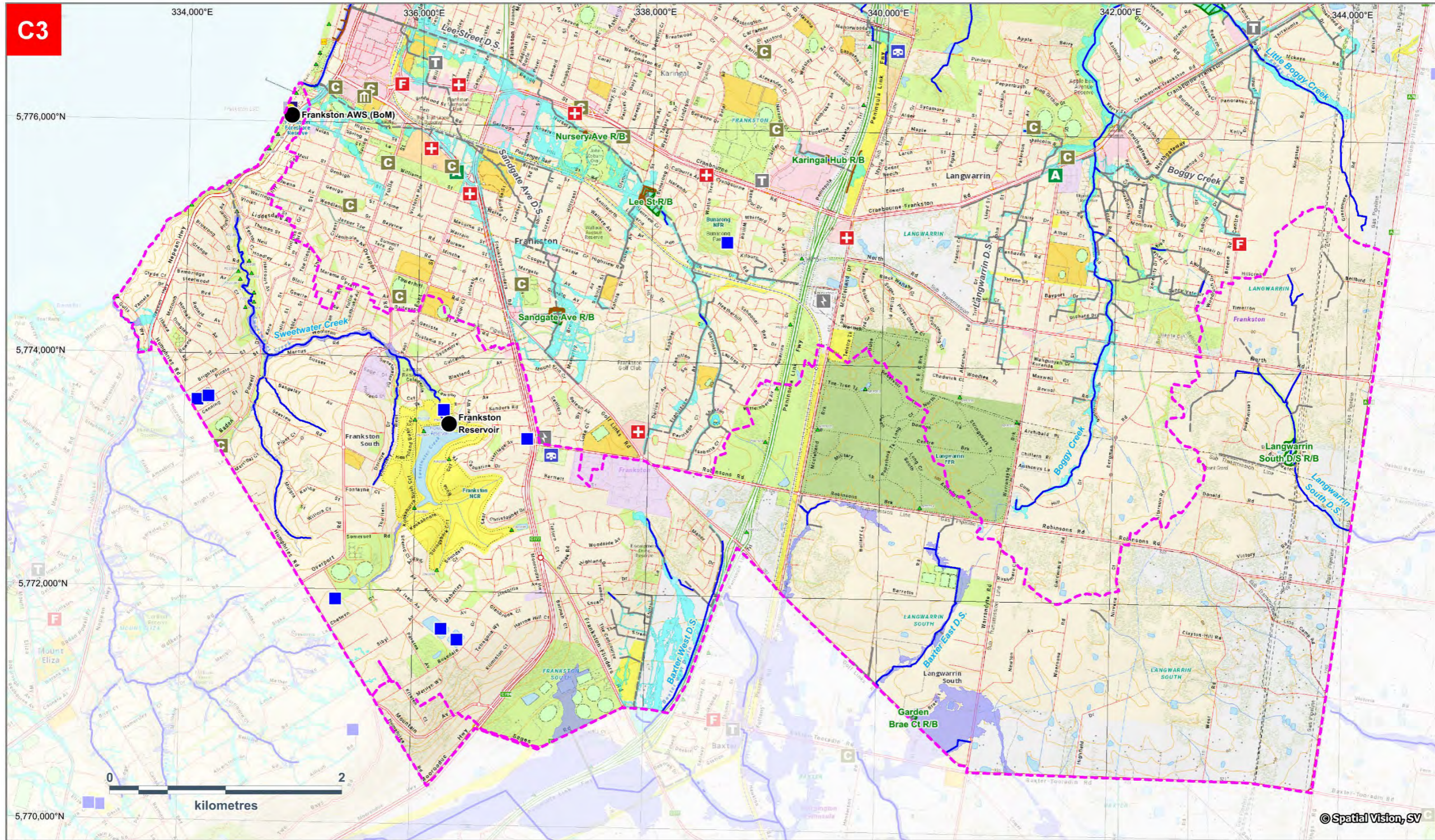
Neither the Bureau of Meteorology nor Melbourne Water currently provides flood forecasts for Frankston South or Langwarrin South. All flood response actions must therefore be driven by rainfall and observations. Telemetered rain gauges are located at Frankston Reservoir within the Sweetwater Creek catchment.

Gauge	Station No.	Location	Stream Level & Flow Gauge	Rain Gauge	Melway Reference
Frankston Reservoir	228819A	Frankston Reservoir, Frankston South		✓	102 E10

Table C3.2 – Gauges monitoring rainfall for Frankston South and Langwarrin South in the City of Frankston

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.

Area Map of Flood Risk in Frankston South & Langwarrin South



Map Produced by VICSES December 2020.

CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
C3. Areas of flood risk around Frankston South and Langwarrin South

- | | | |
|------------------------------|----------------------------------|----------------------|
| Building | Melbourne Water Retarding Basin | Community Centre |
| Waterbody | Melbourne Water Stormwater Drain | Ambulance Station |
| 1% AEP Riverine Flood Extent | Waterway | Retail Water Storage |
| 1% AEP Flash Flood Extent | Fire Station | Rain Gauge |
| Municipal Office | Coast Guard | |
| Hospital | Caravan Park | |
| Boundary for this Appendix | | |

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



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

Figure C3 – Areas of flood risk around Frankston South and Langwarrin South in the City of Frankston and area covered by this appendix

Properties at Flood Risk

Properties listed in the table below are at risk from flooding over-floor in Frankston South and Langwarrin South. As more intelligence becomes available, this list may change. This table has been populated based on modelling work as part of the Sweetwater Creek (BMT WBM, October 2008), the Baxter East D.S. (Melbourne Water, August 2014) and the Baxter West D.S. (GHD, July 2020) flood mapping and risk assessment programs. Note that any multi-lot properties situated above ground floor likely impacted by isolation only with flooding on ground floor impacting access to common areas and/or carpark and storage facilities. Information on above ground-floor properties is not available in this list.

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

Properties at risk from Flooding Over-Floor in Frankston South and Langwarrin South during a 1% AEP event				
Residential	Commercial	Industrial	Rural	Public Use
Street No. at Risk	Street	Suburb	Along Melbourne Water Watercourse	Flood Risk Type
99	Sycamore Road	Frankston South	Sweetwater Creek	Flash
Total				
1				

Table C3.3 – Properties at risk of flooding over-floor in Frankston South and Langwarrin South in the City of Frankston

Isolation

No major isolation risks exist for areas around Frankston South and Langwarrin South 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 for the City of Frankston is available via the website at: https://www.ptv.vic.gov.au/assets/default-site/more/maps/Local-area-maps/Metropolitan/4afa74b3f6/14_Frankston_LAM.pdf

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

Road Closures

The following roads are subject to closure during flooding around Frankston South and Langwarrin South. Check the VicTraffic website for more details: <http://alerts.vicroads.vic.gov.au/>

Department of Transport Roads likely flooded in a 1% AEP (100yr ARI) event
<ul style="list-style-type: none"> Nil Roads expected to be at flood risk

Table C3.4 – Department of Transport Possible Road Closures during a flooding event

Frankston City Council Roads likely flooded in a 1% AEP (100yr ARI) event	
FRANKSTON SOUTH	LANGWARRIN SOUTH
<ul style="list-style-type: none"> Sycamore Street 	<ul style="list-style-type: none">

Table C3.5 – Frankston 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 Height (Level)	ANCOLD Hazard Rating	Properties in Flow Path (WD DCF Failure)	Melway Reference
Garden Brae Court	Baxter East Drain	0.123 ha	0.5 ML	nil	Unknown	Unknown	Very Low	0	107 F4
Langwarrin South	Langwarrin South Drain	4.006 ha	10 ML	nil	61.8m AHD	62.0m AHD	Very Low	0	136 D10

Table C3.6 – Melbourne Water Retarding Basins within Frankston South and Langwarrin South in Frankston City

Frankston City Council Retarding Basin	On Drain/ Waterway	Area	Spillway Crest Level	Full Supply Level	Embankment Crest Height (Level)	Properties in Flow Path (WD DCF Failure)	Melway Reference
BAXTER PARK (Sages Road) RETARDING BASIN	Frankston Flinders Road Frankston South	1.8 ha	50.85	50.85	51.00	Approx. 20	106 H4
CHRISTOPHER RESERVE RETARDING BASIN (Moorooduc Hwy near Christopher Drive)	Frankston Flinders Road Frankston South				In Cut	0	102 H12
WOODSIDE AVENUE RETARDING BASIN	Woodside Avenue Frankston South				In Cut	0	102 J12

Table C3.7 – Frankston City Council Retarding Basins within Frankston South and Langwarrin South in Frankston City

Sewerage Infrastructure

Sewerage Infrastructure of note during a severe flood event located around Frankston South and Langwarrin South is contained within the following table.

Sewer Pumping Stations

Sewerage Pumping Station	On Drain / Waterway	Bank / Side of Waterway	Operator	Location	Melway Reference
Aqueduct Road	Langwarrin South Drain	-	South East Water	Aqueduct Road, Langwarrin South	136 B8
Baden Powell Drive	Sweetwater Creek	North	South East Water	Baden Powell Drive, Frankston South	102 A8
Gulls Way	Kackeraboite Creek	North	South East Water	Gulls Way, Frankston South	101 H7

Table C3.8 – Sewer Pumping Stations in Frankston South and Langwarrin South in Frankston City

Flood Impacts and Operational Considerations (Intelligence Cards)

The tables on the following pages provide a breakdown of the possible consequences of flooding in Frankston South and Langwarrin South at various rain totals. These tables are to be used only as a guide as no two floods at a location will have identical impacts.

Intelligence Cards have been included for the following locations:

- Frankston South and Langwarrin South

FLOOD INTELLIGENCE CARD – FRANKSTON SOUTH & LANGWARRIN SOUTH (UNGAUGED)

Version 1 – January 2021



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:	Frankston Reservoir
LOCATION:	Frankston Reservoir, Frankston South
WEBSITE:	https://www.melbournewater.com.au/water-data-and-education/rainfall-and-river-levels#/reader/228819A

MELWAY REF:	102 E10
GAUGE NUMBER:	228819A
GAUGE TYPE:	Rain

Design Rainfall Depths (mm) – Indication of Possible Flooding	Annual Exceedance Probability (% AEP)	Consequence / Impact	Operational Considerations
20mm in 10 mins; 32mm in 30 mins; 39mm in 1 hour; 47mm in 2 hours; 54mm in 3 hours; or 70mm in 6 hours Note: rainfall depths are a very rough method of estimating flood events and have been used due to the ungaged nature of the catchment. This should be used as a guide only.	1% AEP (100-year ARI)	<ul style="list-style-type: none"> Note: It is not known at what level infrastructure contained below starts being flooded <p>Properties at Flood Risk (Over-Floor)</p> <p>1 Properties in Total</p> <p>Sweetwater Creek</p> <ul style="list-style-type: none"> 99 Sycamore Road, Frankston South <p>Community Infrastructure Likely Flooded</p> <p>Baxter East Drain</p> <ul style="list-style-type: none"> Woodleigh School – Senior Campus on Golf Links Road, Langwarrin South <p>Water Over Road (over 300mm depth)</p> <p>Sweetwater Creek</p> <ul style="list-style-type: none"> Sycamore Road, Frankston South 	

Table C1.17 – Breakdown of possible consequences at various rainfall intensities around Frankston South and Langwarrin South with operational considerations

APPENDIX D - FLOOD EVACUATION ARRANGEMENTS

Phase 1 - Decision to Evacuate

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

Properties are likely to become inundated.

Properties are likely to become isolated and occupants are not suitable for isolated conditions.

Public health is at threat as a consequence of flooding and evacuation is considered the most effective risk treatment. This is the role of the Health Commander of the incident to assess and manage. Refer to the State Emergency Management Plan (SEMP) for details);

Essential services have been damaged and are not available to a community and evacuation is considered the most effective risk treatment.

The following should be considered when planning for evacuation:

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

Different stages of an evacuation process.

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

There are currently no pre-established triggers for evacuation within Frankston City.

Phase 2 – Warning

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

Evacuation warning messages will be developed and issued by VICSES in consultation with the MEMO, MERC, MRM, DFFH, DH and other key agencies and expert advice (CMA's and Flood Intelligence specialists).

Phase 3 – Withdrawal

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

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

VicPol will control security of evacuated areas.

Evacuees will be encouraged to move using their own transport where possible. Transport for those without vehicles or other means will be arranged at the request of the IC or via the appointed VicPol evacuation manager.

Landing zones for helicopters:

No Landing Zones for helicopters have been pre identified. There are numerous parks and open areas which could be utilised in an emergency.

Landing zones for aircraft will be determined by the following:

- The IC will determine the requirements for airborne resources
- The State Aircraft Desk will deploy and coordinate air resources
- The pilot in command will determine the safest location to land.

Vulnerable People in Emergencies

Vulnerable people living in the community are often identified through funded agencies, community service organisations or other community networks. Such people will be assessed against the DFFH definition of vulnerability and may qualify for registration on the Vulnerable Persons Register (VPR). A list of facilities where vulnerable people may be located is also kept by Council however this list is not exhaustive. These may be funded facilities including education, health and childcare, Commonwealth regulated aged care facilities and other locally identified facilities. Many persons at higher risk in an emergency will remain unidentified and agencies must provide support and assistance to those most vulnerable as required. Consideration must be given to the dignity, mobility, accessibility and communication needs of all residents in all phases of an emergency,

Phase 4 – Shelter

Relief/ Recovery Centres and/or assembly areas which cater for people's basic needs may be established to meet the immediate needs of people affected by storm and/or flooding. Relief Centres will be determined dependent on location and size of event.

The emergency Relief/ Recovery centres and/or Assembly Areas are listed in the table below:

Sector	Relief Centre/Assembly Area (include address)	Comments
To be determined dependant on location/ size of event	Frankston South	As per ERC facility plan available through MEMO
To be determined dependant on location/ size of event	Frankston North	As per ERC facility plan available through MEMO

VicPol in consultation with VICSES will liaise with Frankston City Council and DFFH where regional coordination is required, via the relevant control centre to plan for the opening and operation of emergency relief centres. This can best be achieved through the Emergency Management Team (EMT).

Animal Shelter

The need for animal shelter compounds will be determined dependant on the location and size of the event. Refer to the MEMP for more information.

Caravans and Caravan parks

No caravan evacuation sites have been identified in Frankston City. Where present, caravans may be evacuated. Caravan evacuation will be determined dependent on location and size of event.

Phase 5 – Return

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

The IC in consultation with VicPol will determine when it is safe for evacuees to return to their properties and will arrange for the notification to the community.

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

Considerations for deciding whether to return include:

- Current storm/flood situation.
- Status of flood mitigation systems.
- Size and location of the community.
- Access and egress routes available and their status.
- Resources required to coordinate the return.
- Special needs groups, communication, and accessibility and carer requirements.
- Forecast weather; and
- Transportation particularly for people with mobility considerations

Disruption to Services

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

This table will be populated as a more detailed analysis of flood risk is completed.

Service	Impact	Trigger Point for action	Strategy/Temporary Measures
School Bus Routes	General road closures across network leading to student pickups being suspended	Inundation of road network and associated damage to an extent that it is unsafe for vehicles to use road	Alternate routes via clearly signed detours. Alternate routes to be determined by Council Traffic Engineers or works crews in conjunction with VicPol and Dept. of Education. Council work crews to install and monitor detour signage. Council Network Inspectors to monitor road conditions, closure signage and detour signage. Alternate student collection points to be established.
Local Road Network	General road closures across network	Inundation of road network and associated damage to an extent that it is unsafe for vehicles to use road	Alternate routes via clearly signed detours. Alternate routes to be determined by Council Traffic Engineers, Council works personnel and VicPol. Council works crews to install and monitor detour signage. Council Network Inspectors to monitor road conditions, closure signage and detour signage.

Essential Infrastructure and Property Protection

Essential Community Infrastructure and properties may require protection include residences, businesses, roads, power supply etc.

For small scale events sandbags can be purchased from Bunnings. For larger scale events sandbag collection points and filling points will be determined, with the community being informed of these points depending on the nature and proximity of the event.

Rescue

Requests for Frankston City Council resources to support rescue operations will forwarded to the MECC if established or EMLO if an ICC has been established.

Resources are available within the Frankston SES unit to assist with rescue operations. Full details of equipment and resources are held by the SES unit. Known high-risk areas/communities (i.e., low-lying islands) where rescues might be required are detailed in the **Appendix F** flood maps.

APPENDIX E – STORM AND FLOOD WARNING SYSTEMS

Storm and Flood Warning

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

Flood Bulletins

VICSES distributes flood emergency information to the media through “Flood Bulletins”. Flood Bulletins provide BoM Flood Warning information as well as information regarding possible flood consequences and safety advice, not contained in BoM Flood Warning products. VICSES uses the title Flood Bulletin to ensure emphasis is placed upon BoM Flood Warning product titles.

The relevant VICSES RDO or the established ICC will normally be responsible for drafting, authorizing and issuing issue Flood Bulletins, using the VicEmergency system.

Flood Bulletins should refer to the warning title within the Bulletin header, for example Flood Bulletin for Major Flood Warning on Yarra River.

Flood Bulletins should follow the following structure:

- What is the current flood situation.
- What is the predicted flood situation.
- What are the likely flood consequences;
- What should the community do in response to flood warnings.
- Where to seek further information.
- Who to call if emergency assistance is required.

It is important that the description of the predicted flood situation is consistent with and reflects the relevant BoM Flood Warning.

Flood Bulletins should be focused on specific gauge (or in the absence of gauges, catchment) reference areas, that is the area in which flood consequences specifically relate to the relevant flood gauge.

Flood Bulletins should be prepared and issued after receipt of each Flood Watch and Flood Warning from the BoM, or after Severe Weather or Thunderstorm Warnings indicating potential for severe flash flooding.

To ensure flood bulletins are released in a timely manner, standardised flood bulletins may be drafted based on different scenarios, prior to events occurring. The standardised flood bulletins can then be adapted to the specifics of the event occurring or predicted to occur.

Local Flood Warning System Arrangements

There are no local flood warning systems or arrangements in place in Frankston City.

Moderate Flood Warning Example

Community Notification Sign-off



WARNING - FLOOD

Incident Location: Glenelg River at Casterton
Incident Name: GlenelgRiverFloodSept2017
Issued: Set at publish time
Next Update Expected:

Map



Message

This **Moderate Flood Warning** is being issued for Glenelg River at Casterton.

- In the 24hrs to 9am Friday up to 50mm of rainfall was recorded in the Glenelg River catchment.
- A further 5mm to 10mm is forecast for the remainder of Friday.
- Glenelg River: Moderate flooding is likely along the Glenelg River.
- The Glenelg River at Dergholm is above the minor flood level (4.0 m) and rising.
- The Glenelg River at Casterton is currently at 4.50 metres (minor flood level 3.8 m) and rising.
- The Glenelg River at Casterton is likely to exceed the moderate flood level (5.20 m) during Friday.

Act now - take actions immediately to protect your life and property.

What you should do:

Decide if you will evacuate if it becomes necessary.

If you choose to leave:

- Remember to take your pets, mobile phone, spare clothes and medications.
- Travel to the home of family or friends who are in a safe location, away from flooding.
- Be aware of any road closures when you leave.

If you are travelling:

- Be aware of road hazards including mud, debris and damaged roads or bridges.
- Floodwater is dangerous - never drive, walk or ride through floodwater.

If you stay or if it is unsafe to leave:

- Make sure you have enough food, drinking water, medications and pet food to survive for 3-5 days in case you become isolated.

You should stay informed by listening to emergency broadcasters and monitoring warnings.

Impacts in your area:

- Flooding above floor level of a single story home is likely to occur in some locations.

This message was issued by State Emergency Service.

The next update is expected by [warning_next_update] or as the situation changes.

Flood information:

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

Emergency contacts:

- For life threatening emergencies call Triple Zero (000).
- For flood and storm emergency assistance (<http://www.ses.vic.gov.au/about/ShouldIcalltheSES.pdf>) from the SES call 132 500.

Stay informed:

- Via www.emergency.vic.gov.au (<http://emergency.vic.gov.au/respond/>).
- Tune in to ABC Local Radio, commercial and designated community radio stations, or Sky News TV.
- Call the VicEmergency Hotline (<https://vicemergency.zendesk.com/hc/en-gb/articles/115001055007-What-is-the-VicEmergency-Hotline->) to talk to someone about this warning on freecall 1800 226 226.
- People who are deaf, hard of hearing, or who have a speech/communication impairment can contact VicEmergency Hotline via the National Relay Service (<http://relay.vic.gov.au/>) on 1800 555 677.

- For help with English, call the Translating and Interpreting Service (<https://www.tisnational.gov.au/>) on 131 450 (freecall) and ask them to telephone VicEmergency Hotline. If you know someone who cannot speak English, provide them with this number.
- Download the VicEmergency app (<https://vicemergency.zendesk.com/hc/en-gb/articles/230492607-What-is-the-VicEmergency-app->) or follow VicEmergency on Twitter (<https://twitter.com/vicemergency>) (#vicfloods) or Facebook (<https://www.facebook.com/vicemergency>).

Facebook

WARNING - FLOOD

Incident Location: Glenelg River at Casterton

Incident Name: GlenelgRiverFloodSept2017

Issue Date:

Next Update:

This Moderate Flood Warning is being issued for Glenelg River at Casterton.

- In the 24hrs to 9am Friday up to 50mm of rainfall was recorded in the Glenelg River catchment.
- A further 5mm to 10mm is forecast for the remainder of Friday.
- Glenelg River: Moderate flooding is likely along the Glenelg River.
- The Glenelg River at Dergholm is above the minor flood level (4.0 m) and rising.
- The Glenelg River at Casterton is currently at 4.50 metres (minor flood level 3.8 m) and rising.
- The Glenelg River at Casterton is likely to exceed the moderate flood level (5.20 m) during Friday.

Act now - take actions immediately to protect your life and property.

More details at <http://emergency.vic.gov.au/respond/#!/warning/3941/moreinfo>

Twitter

Moderate Flood Warning for Glenelg River at Casterton. For more info: <http://bit.ly/2tfmm6t> #vicfloods

Sign-off

Authorised By:

Authorised Signature:

APPENDIX F – MAPS AND SCHEMATICS

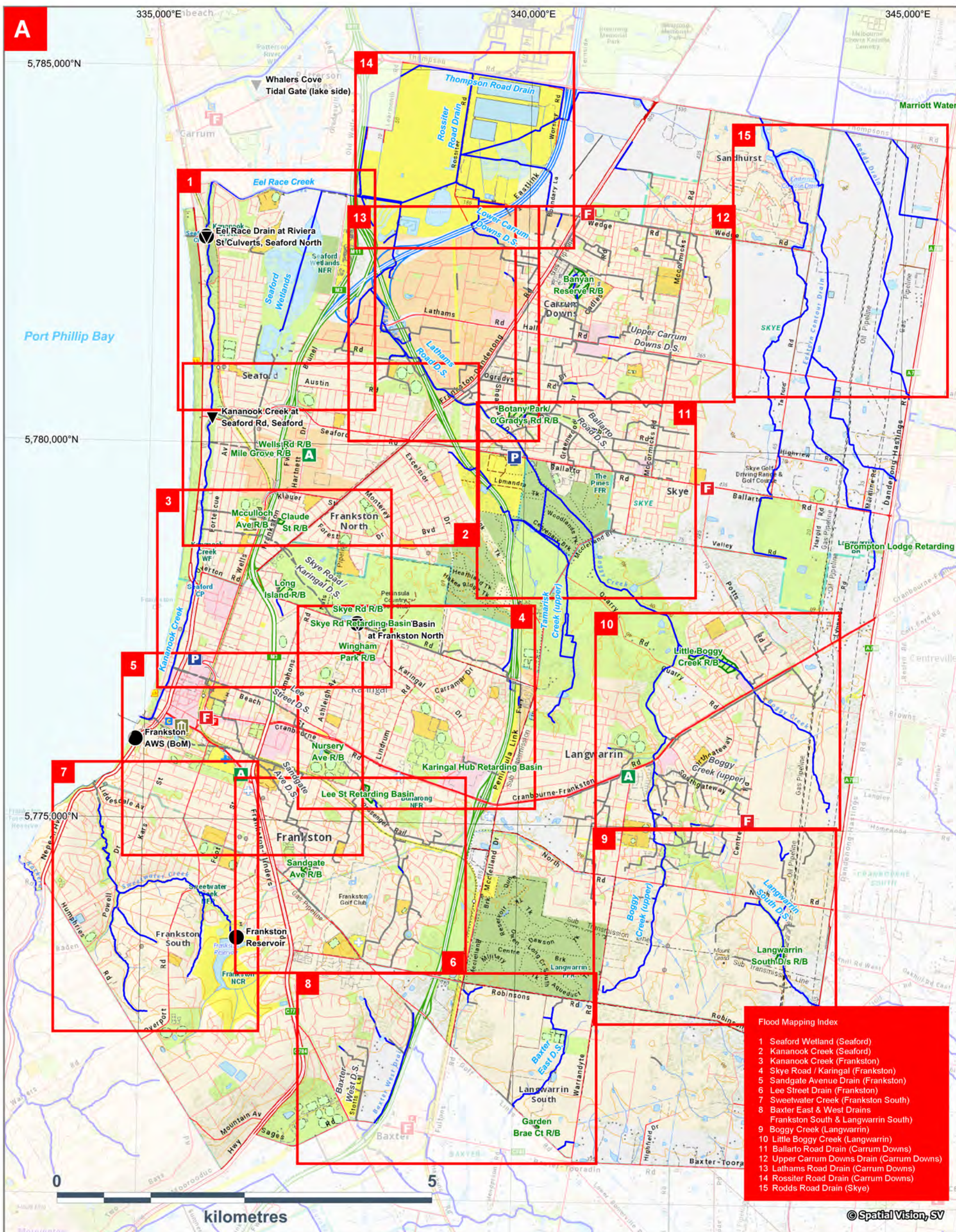
Overview

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

- A map outlining a series of flooding hot spot maps within Frankston City.
- A map showing the Municipal boundary together with the open waterways and underground stormwater drainage pipe network within Frankston City and the 1% AEP (100-year ARI) flood extents (sourced from Melbourne Water GIS).
- A set of 15 maps showing flooding hot spots within Frankston City 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 Frankston Planning Scheme can be used as a guide to areas that may flood during an event. The maps can be found in hard copy form at the Council's main office or online at the Department of Environment, Land, Water & Planning (DEECA) website <https://mapshare.vic.gov.au/vicplan/>.
- Maps showing 1 in 100-year ARI (1% AEP) flood extents and floodways (together with volume, height and water quality data) are shown at DEECA's mapshare website <http://mapshare.maps.vic.gov.au/MapShareVic/index.html?viewer=MapShareVic.PublicSite&locale=en-AU>



- Flood Mapping Index**
- 1 Seaford Wetland (Seaford)
 - 2 Kananook Creek (Seaford)
 - 3 Kananook Creek (Frankston)
 - 4 Skye Road / Karingal (Frankston)
 - 5 Sandgate Avenue Drain (Frankston)
 - 6 Lee Street Drain (Frankston)
 - 7 Sweetwater Creek (Frankston South)
 - 8 Baxter East & West Drains (Frankston South & Langwarrin South)
 - 9 Boggy Creek (Langwarrin)
 - 10 Little Boggy Creek (Langwarrin)
 - 11 Ballarto Road Drain (Carrum Downs)
 - 12 Upper Carrum Downs Drain (Carrum Downs)
 - 13 Lathams Road Drain (Carrum Downs)
 - 14 Rossiter Road Drain (Carrum Downs)
 - 15 Rodds Road Drain (Skye)

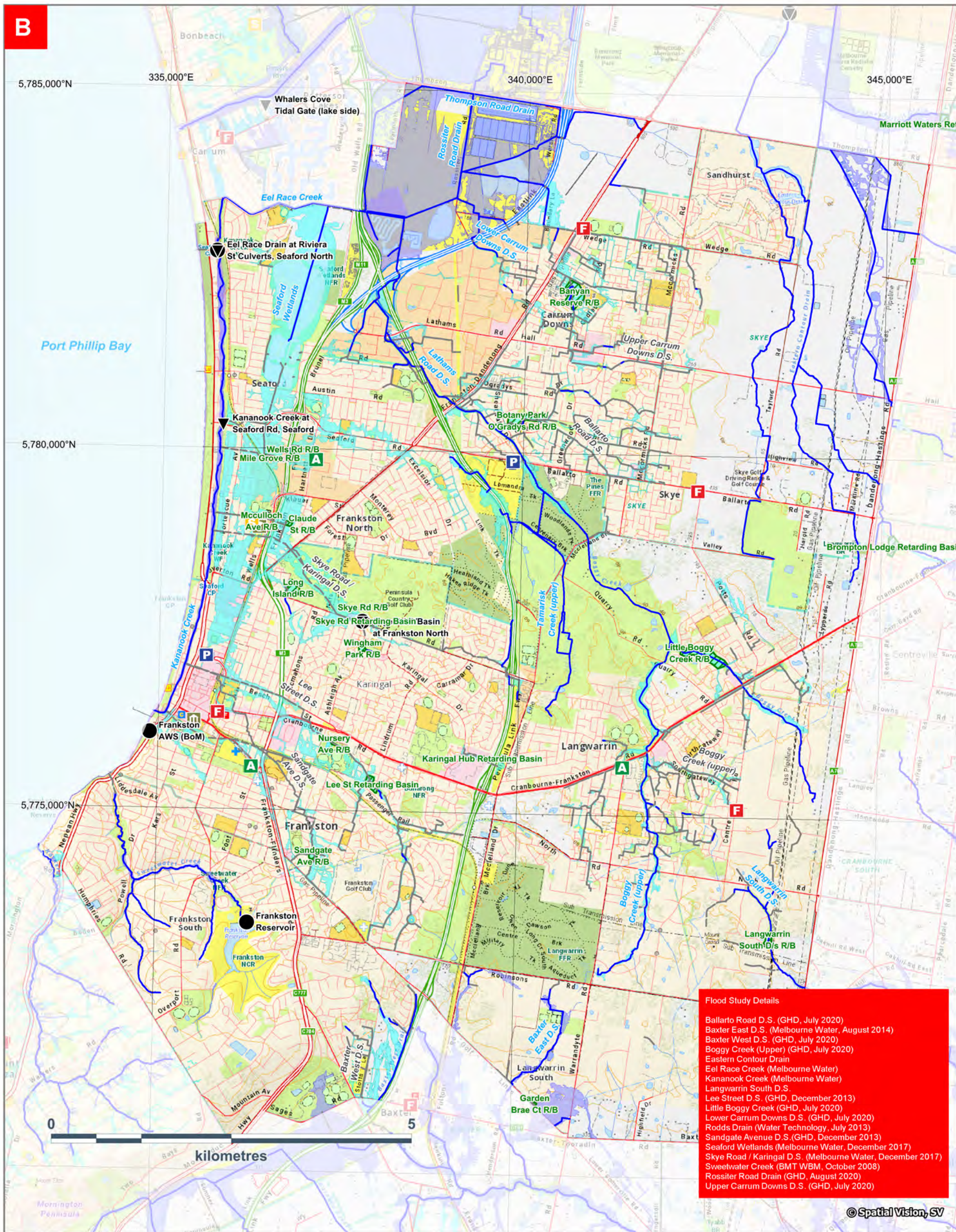
Map Produced by VICSES December 2020.

CITY OF FRANKSTON
Version 4: December 2020
A - Flood Mapping Index

- Waterbody
- 1% AEP Flash Flood Extent
- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Extent
- Melbourne Water Retarding Basin
- Melbourne Water Stormwater Drain
- Waterway
- Stream Level Gauge
- Rain Gauge
- State Emergency Service
- Municipal Office
- Police Station
- Fire Station
- Ambulance Station



SES VICTORIA Melbourne Water
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Map Produced by VICSES December 2020.

CITY OF FRANKSTON

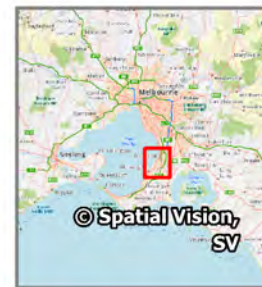
Version 4: December 2020

B. 1% AEP (100yr ARI) Flood Mapping

- Waterbody
- 1% AEP Flash Flood Extent
- 1% AEP Riverine Flood Extent
- 1% AEP Storm Surge Extent
- Melbourne Water Retarding Basin
- Melbourne Water Stormwater Drain
- Waterway
- Stream Level Gauge
- Rain Gauge
- State Emergency Service
- Municipal Office
- Police Station
- Fire Station
- Ambulance Station

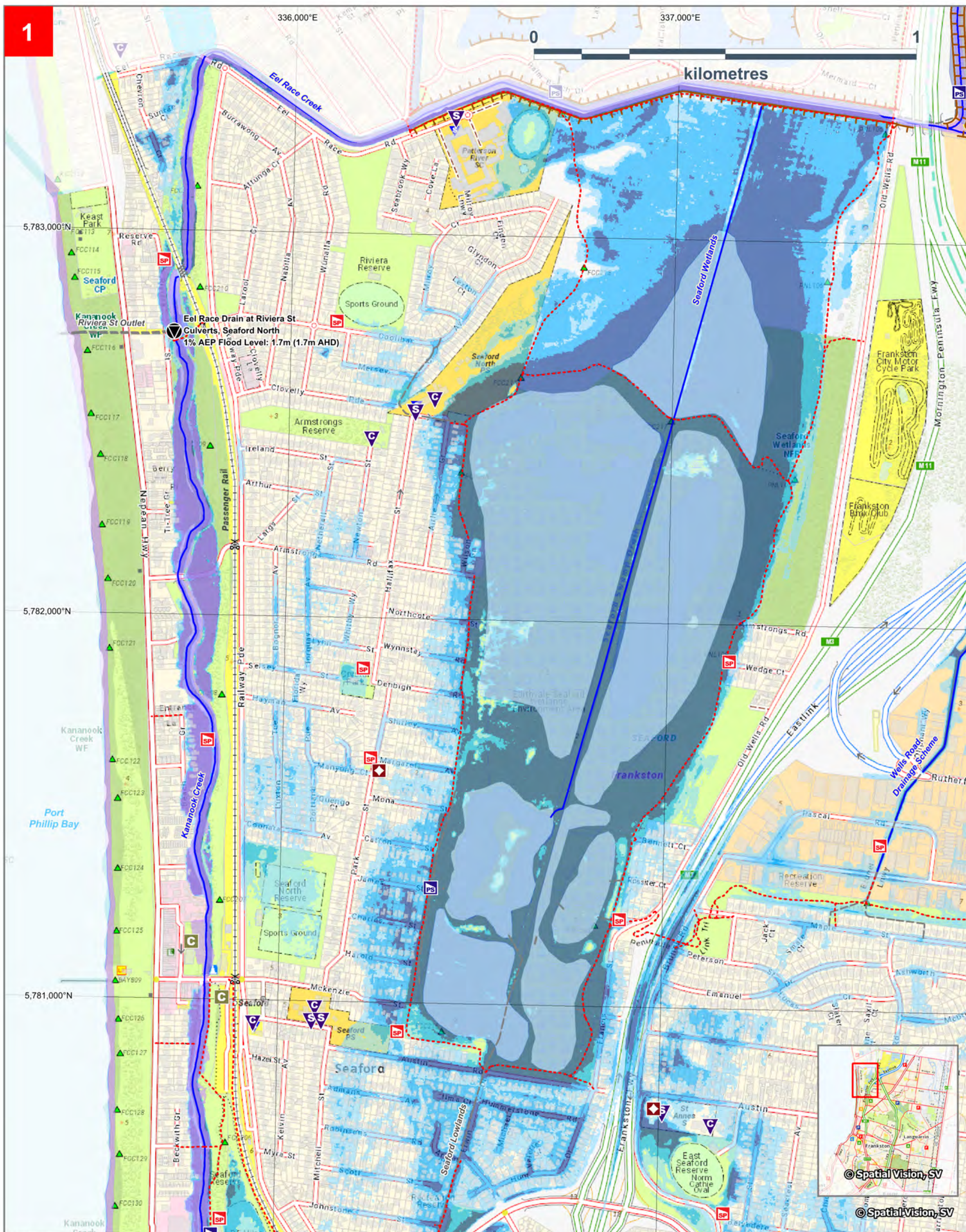
- Flood Study Details**
- Ballarto Road D.S. (GHD, July 2020)
 - Baxter East D.S. (Melbourne Water, August 2014)
 - Baxter West D.S. (GHD, July 2020)
 - Boggy Creek (Upper) (GHD, July 2020)
 - Eastern Contour Drain
 - Eel Race Creek (Melbourne Water)
 - Kananook Creek (Melbourne Water)
 - Langwarrin South D.S.
 - Lee Street D.S. (GHD, December 2013)
 - Little Boggy Creek (GHD, July 2020)
 - Lower Carrum Downs D.S. (GHD, July 2020)
 - Rodds Drain (Water Technology, July 2013)
 - Sandgate Avenue D.S. (GHD, December 2013)
 - Seaford Wetlands (Melbourne Water, December 2017)
 - Skye Road / Karingal D.S. (Melbourne Water, December 2017)
 - Sweetwater Creek (BMT WBM, October 2008)
 - Rossiter Road Drain (GHD, August 2020)
 - Upper Carrum Downs D.S. (GHD, July 2020)

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Flood Extent Maps (sourced Melbourne Water GIS)



Seaford flood modelling completed by Melbourne Water, December 2017. Map Produced by VICSES December 2020.

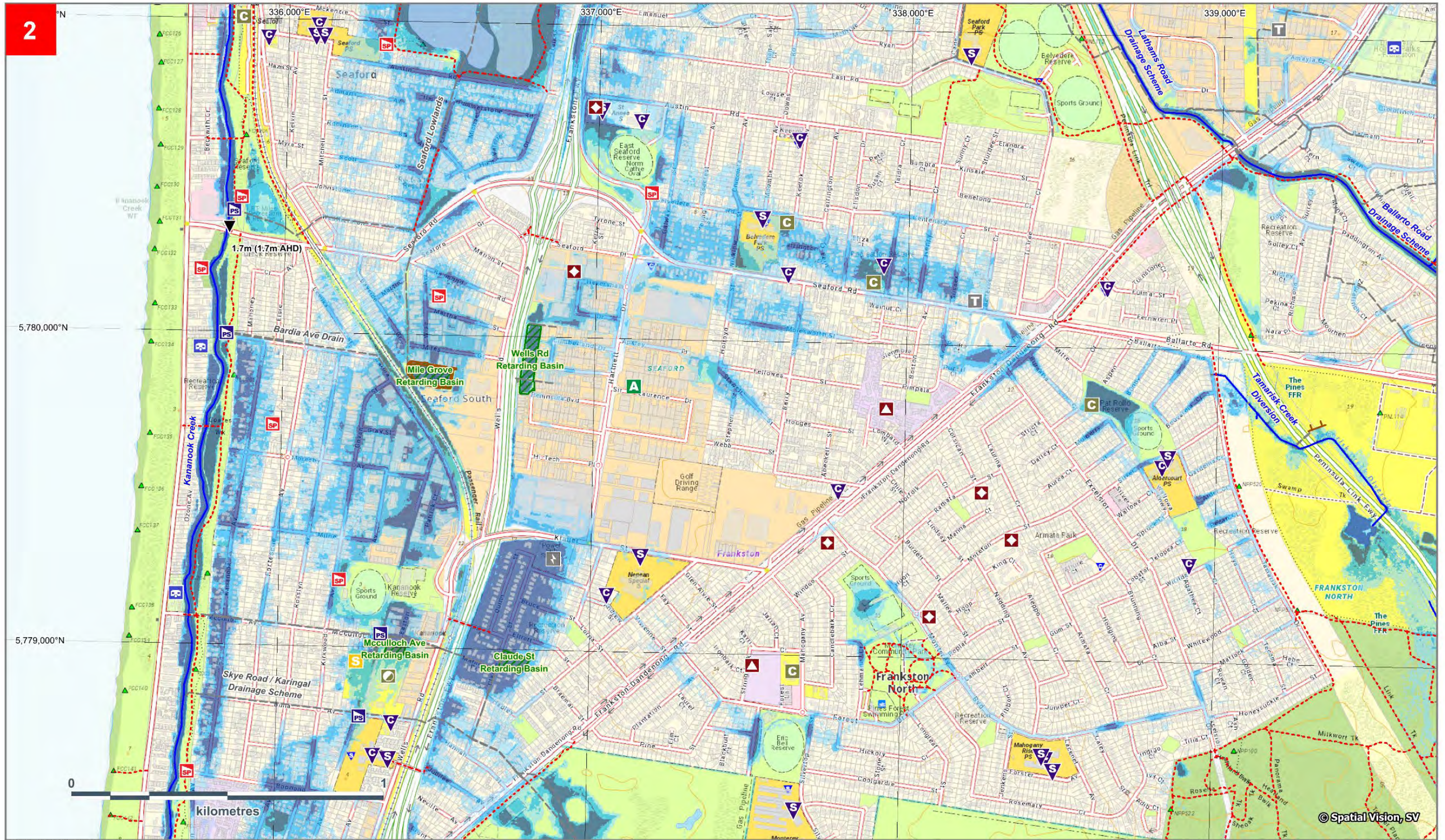
CITY OF FRANKSTON
1% AEP (100yr ARI) Flooding
1. Seaford Wetlands (Seaford)

Building	Waterway	Rain Gauge
Waterbody	Melbourne Water Stormwater Drain	Stream Level Gauge & 1% AEP Flood Level
Greater than 60cm	Embankment	
Between 30cm and 60cm	Bicycle / Walking Trail	
Between 5cm and 30cm	Child Care / Kindergarten	
1% AEP Storm Surge Extent (Depth Unavailable)	Education Facility	
Aged Care / Retirement Village	Community Centre	
Place Of Worship	Sewer Pumping Station	
	Drainage Pumping Station	

LAND USE

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

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Flood modelling completed by Melbourne Water, December 2017. Map Produced by VICSES December 2020.

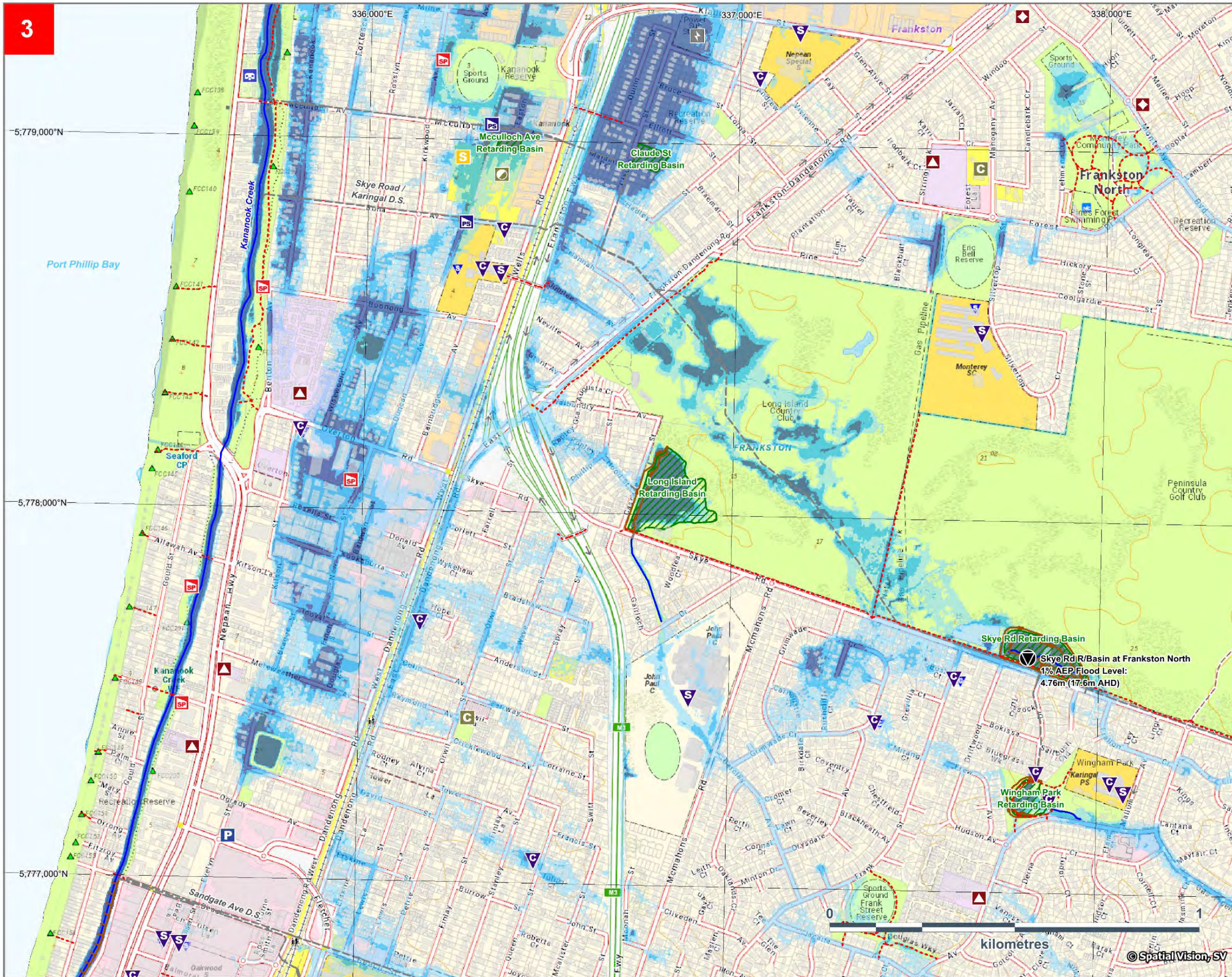
CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
2. Kananook Creek (Seaford)

Building	Melbourne Water Stormwater Drain	Sewer Pumping Station	LAND USE
Waterbody	Waterway	School / College	
Aged Care / Retirement Village	Bicycle / Walking Trail	Drainage Pumping Station	Commercial and Business
Melbourne Water Retarding Basin	Aged Care / Retirement	Power Terminal Station	Industrial
1% AEP Flood Depth (>5cm)	Child Care / Kindergarten	Place Of Worship	Public Parks / Cemeteries / Recreation
Greater than 60cm	Community Centre	State Emergency Service	Utilities and Local Government Facilities
Between 30cm and 60cm	Ambulance Station	Municipal Depot	Education
Between 5cm and 30cm	Caravan Park		
Embankment			

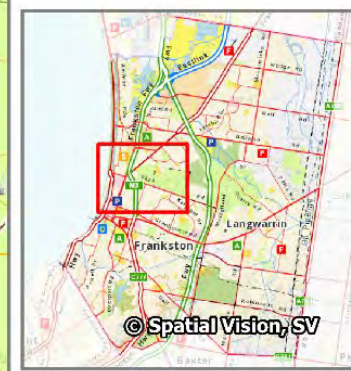


VICTORIA **Melbourne Water**

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- Building
 - Waterbody
 - Retarding Basin
 - 1% AEP Flood Depth (>5cm)**
 - Greater than 60cm
 - Between 30cm and 60cm
 - Between 5cm and 30cm
 - Bicycle / Walking Trail
 - Melbourne Water Stormwater Drain
 - Waterway
 - Embankment
 - Child Care / Kindergarten
 - Education Facility
 - Caravan Park
 - Community Centre
 - State Emergency Service
 - Rain Gauge
 - Place Of Worship
 - Aged Care / Retirement Village
 - Drainage Pumping Station
 - Sewer Pumping Station
 - Stream Level Gauge & 1% AEP Flood Level
 - Municipal Depot
 - Police Station
 - Power Terminal Station
- LAND USE**
- Residential
 - Commercial and Business
 - Industrial
 - Public Parks / Cemeteries / Recreation
 - Utilities and Local Government Facilities
 - Education



N

CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
 3. Kanook Creek (Frankston)

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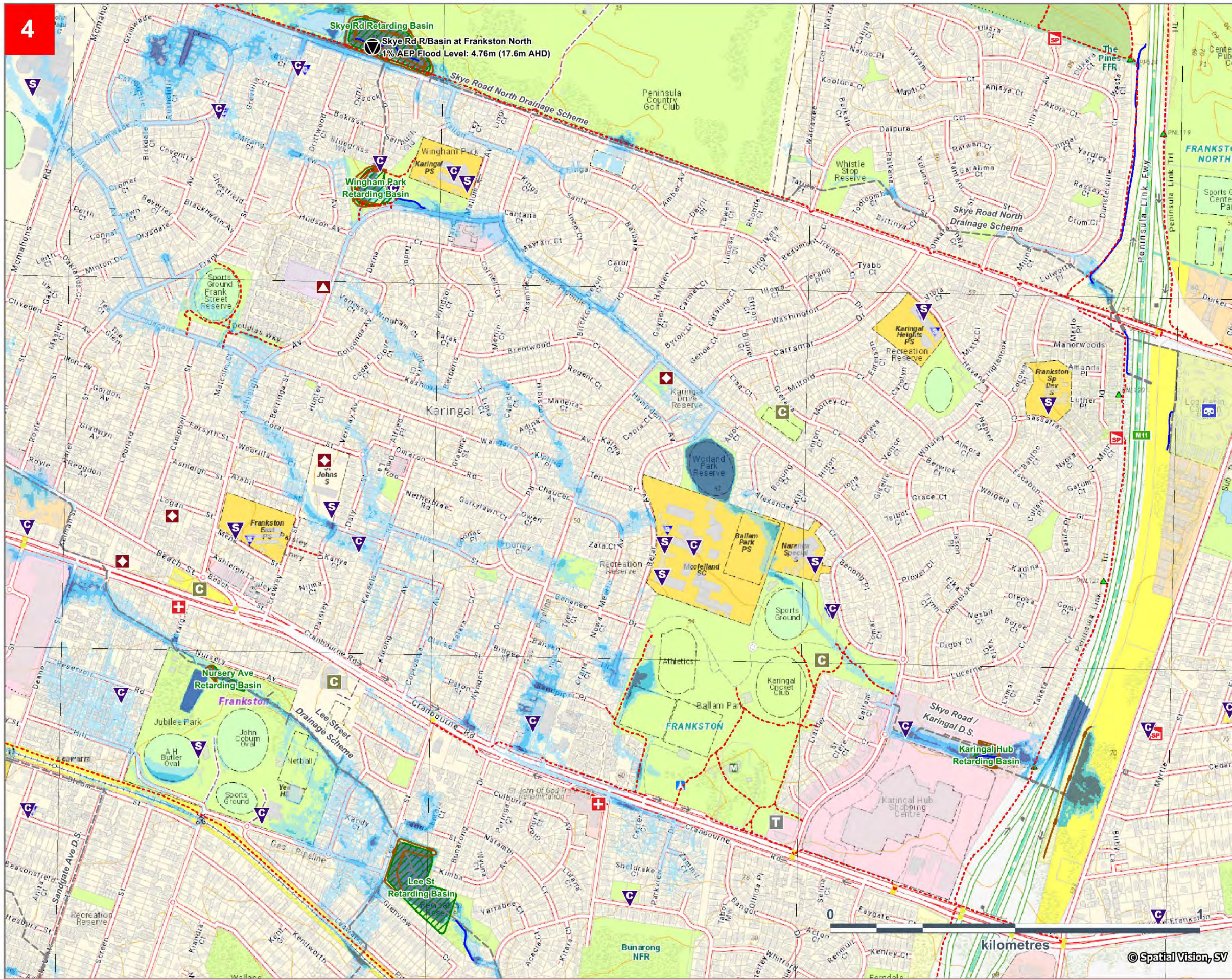
3

5,779,000°N

5,778,000°N

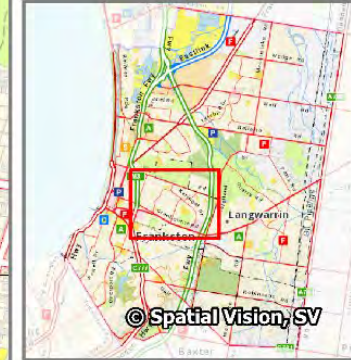
5,777,000°N

Flood modelling completed by Melbourne Water, December 2017. Map Produced by VICSES July 2020.



- Building
- Waterbody
- Retarding Basin
- 1% AEP Flood Depth (>5cm)**
- Greater than 60cm
- Between 30cm and 60cm
- Between 5cm and 30cm
- Bicycle / Walking Trail
- Melbourne Water Stormwater Drain
- Waterway
- Embankment
- Child Care / Kindergarten
- Education Facility
- Telephone Exchange
- Community Centre
- Hospital
- Rain Gauge
- Place Of Worship
- Aged Care / Retirement Village
- Caravan Park
- Sewer Pumping Station
- Stream Level Gauge & 1% AEP Flood Level

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



N

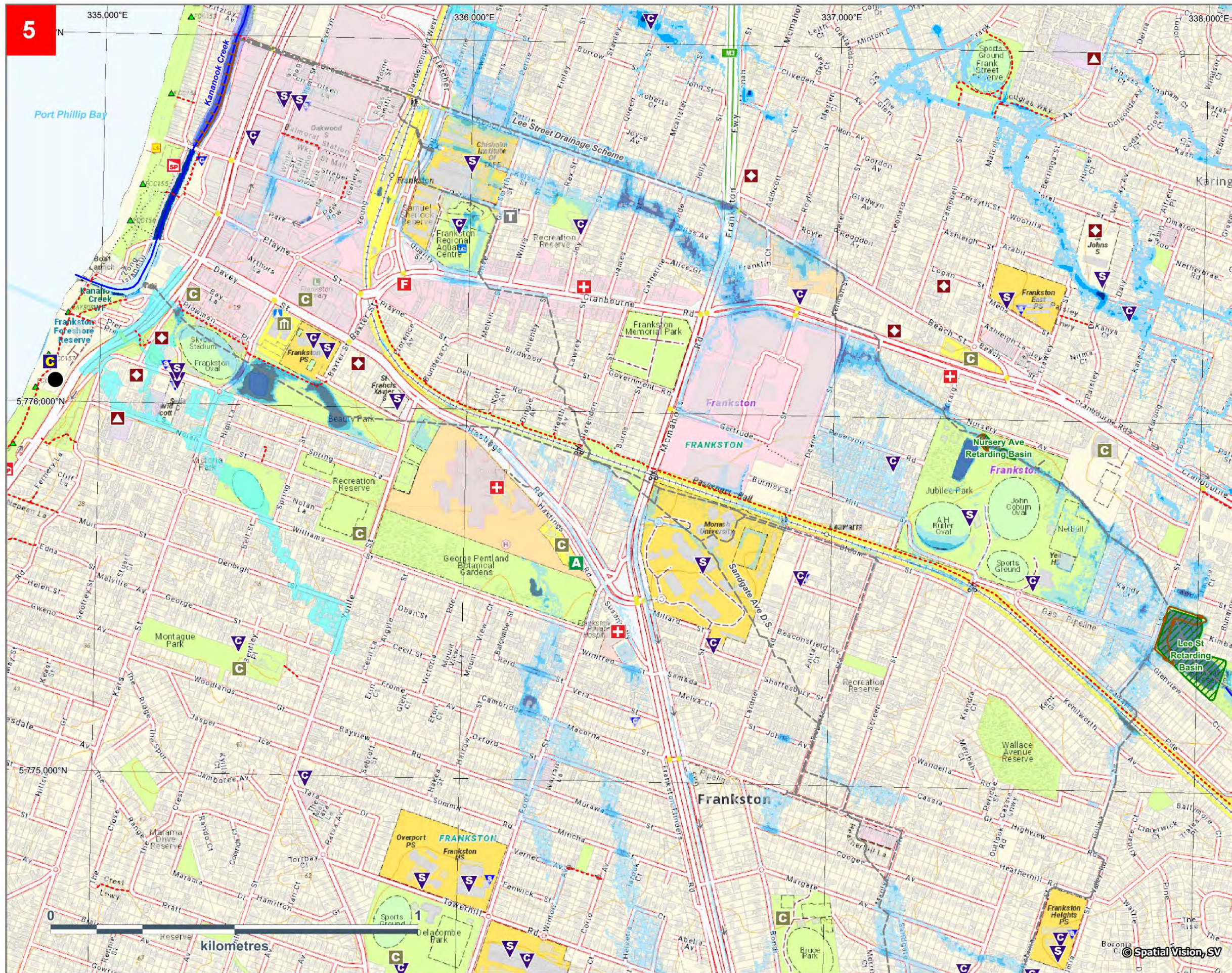
CITY OF FRANKSTON
1% AEP (100yr ARI) Flooding
4. Skye Road / Karingal Drain (Frankston)

SES VICTORIA **Melbourne Water**

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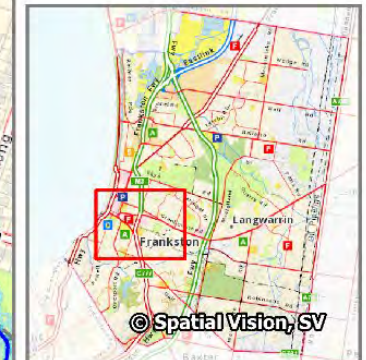
Flood modelling completed by Melbourne Water, December 2017. Map Produced by VICSES July 2020.

5



	Building
	Waterbody
	Retarding Basin
	1% AEP Flash Flood Extent (Depth Unavailable)
1% AEP Flood Depth (>5cm)	
	Greater than 60cm
	Between 30cm and 60cm
	Between 5cm and 30cm
	Bicycle / Walking Trail
	Melbourne Water Stormwater Drain
	Waterway
	Embankment
	Child Care / Kindergarten
	Education Facility
	Telephone Exchange
	Community Centre
	Aged Care Facility
	Ambulance Station
	Hospital
	Coast Guard
	Rain Gauge
	Fire Station
	Place Of Worship
	Municipal Offices

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

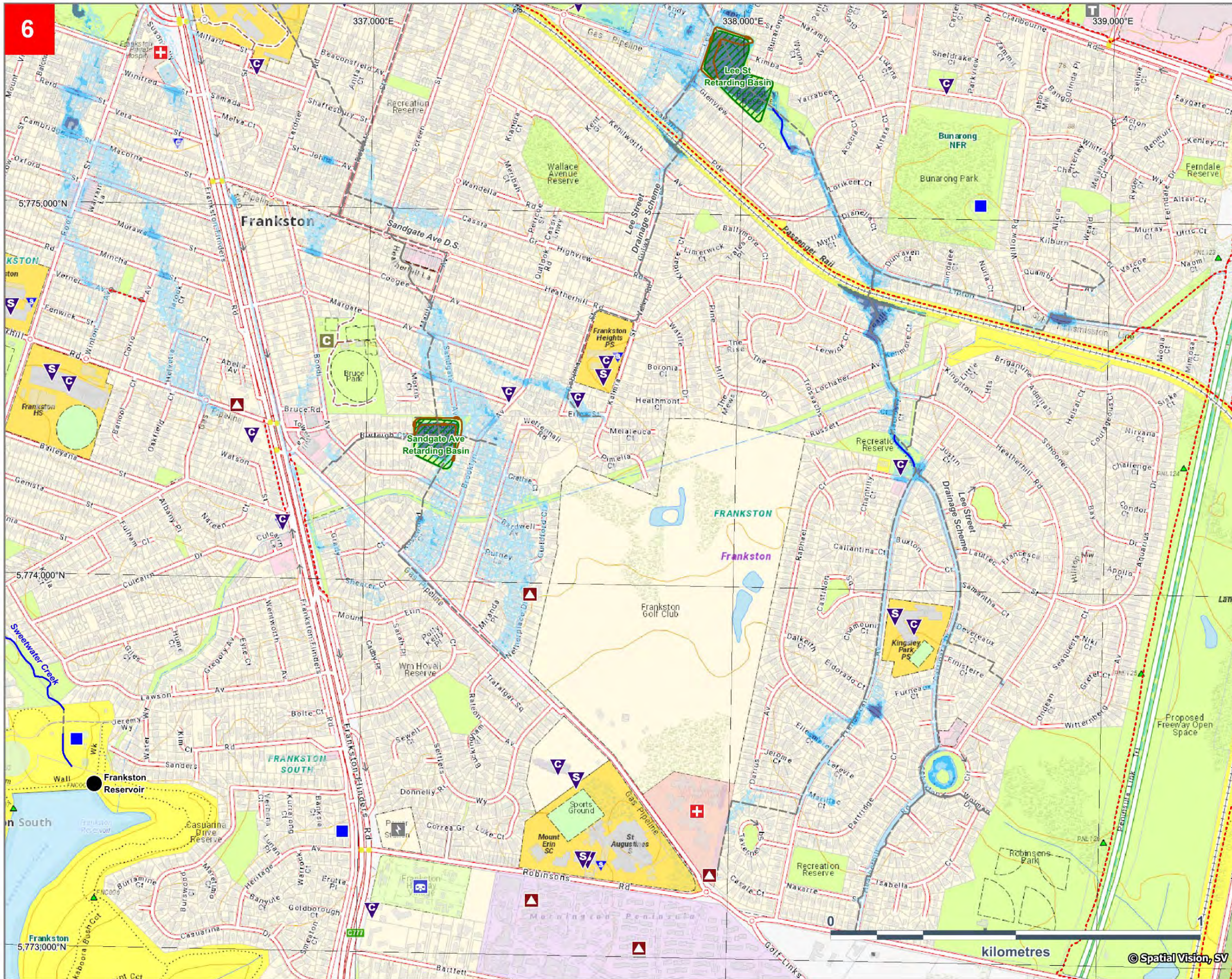


N

CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
5. Sandgate Avenue Drain (Frankston)

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Flood modelling completed by GHD, December 2013. Map Produced by VICSES July 2020.



	Building
	Waterbody
	Retarding Basin
	Aged Care / Retirement Village

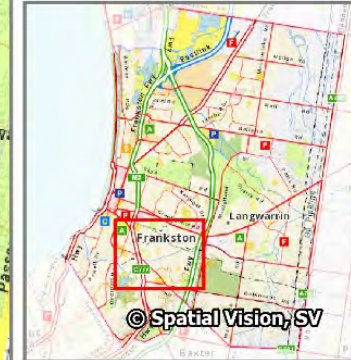
1% AEP Flood Depth (>5cm)

	Greater than 60cm
	Between 30cm and 60cm
	Between 5cm and 30cm

	Bicycle / Walking Trail
	Melbourne Water Stormwater Drain
	Waterway
	Embankment
	Child Care / Kindergarten
	Education Facility
	Telephone Exchange
	Community Centre
	Aged Care Facility
	Caravan Park
	Hospital
	Retail Water Storage
	Rain Gauge

LAND USE

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

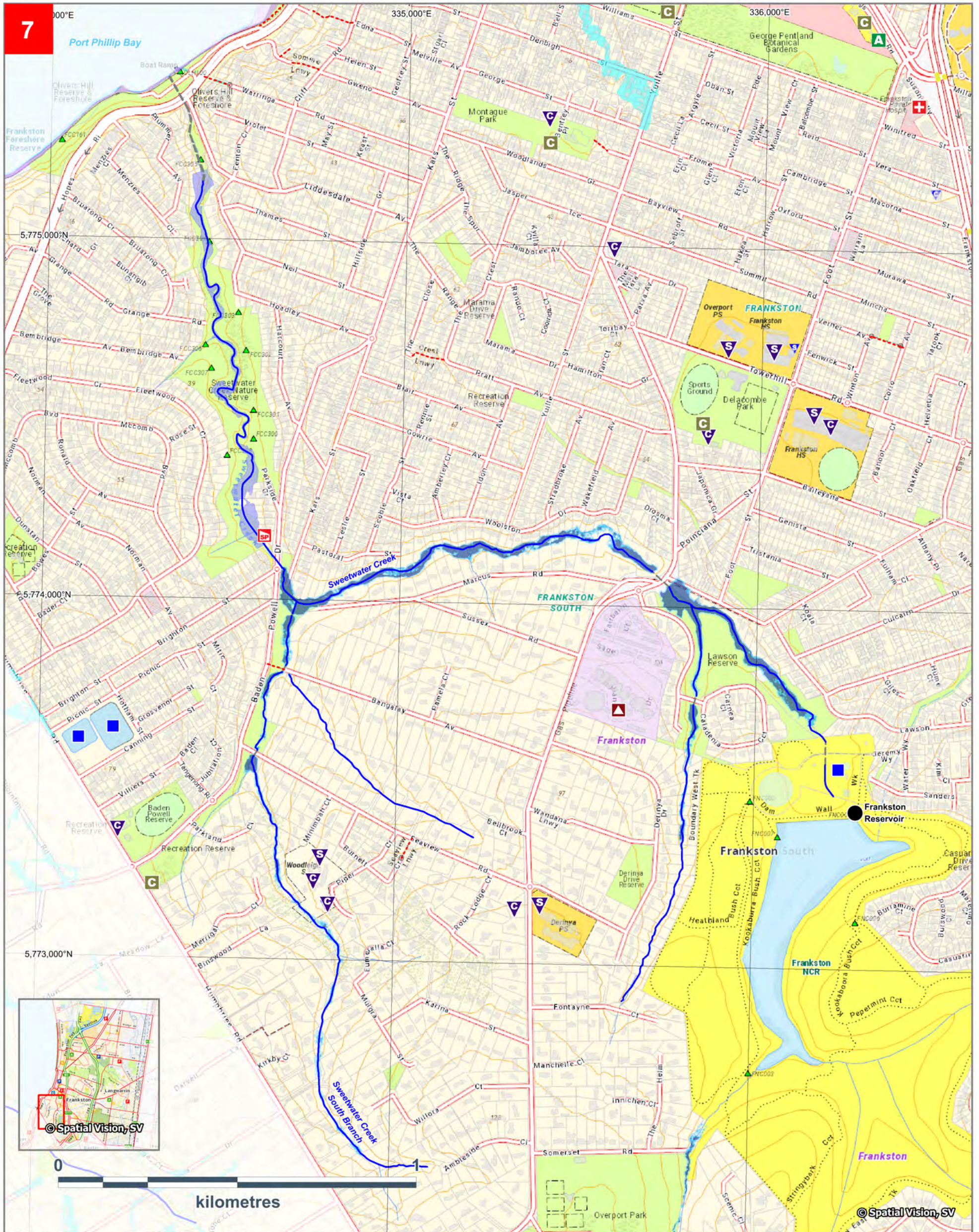


N

CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
6. Lee Street Drain (Frankston)

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Flood modelling completed by GHD, December 2013. Map Produced by VICSES July 2020.



Sweetwater Creek flood modelling completed by BMT WBM, October 2008. Map Produced by VICSES December 2020.

CITY OF FRANKSTON
1% AEP (100yr ARI) Flooding
7. Sweetwater Creek (Frankston South)

1% AEP Flood Depth (>5cm)

- Greater than 60cm
- Between 30cm and 60cm
- Between 5cm and 30cm
- Waterway
- Melbourne Water Stormwater Drain
- Embankment
- Bicycle / Walking Trail
- Child Care / Kindergarten
- Education Facility

- Rain Gauge
- Retail Water Storage
- Sewer Pumping Station
- Hospital
- Community Centre

LAND USE

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

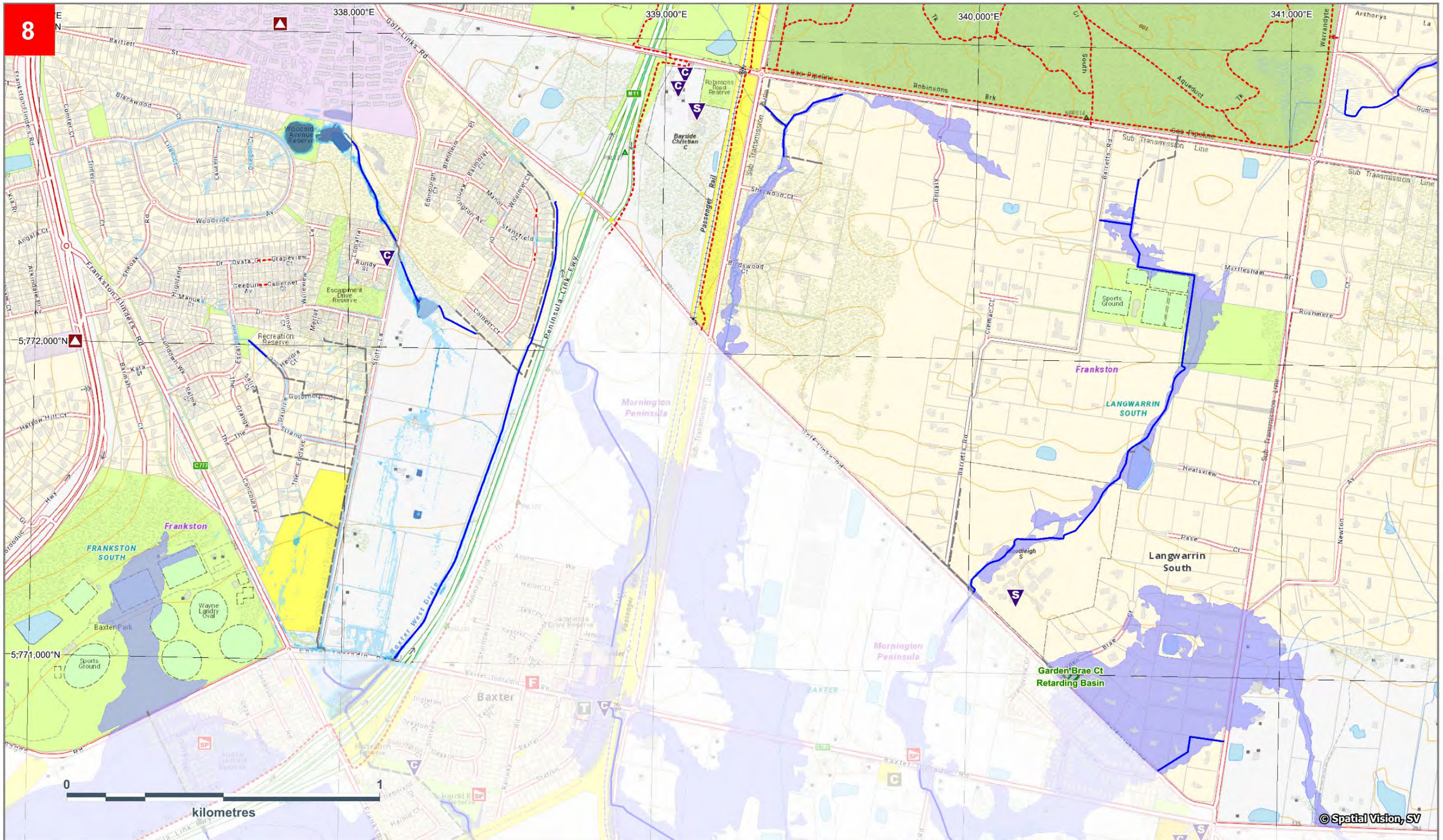
Other Symbols:

- Aged Care / Retirement Village
- Ambulance Station

Scale: 0 to 1 kilometre

Logos: SES, VICTORIA State Government, Melbourne Water

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Baxter East flood modelling completed by Melbourne Water, August 2014. Baxter West flood modelling completed by GHD, July 2020. Map Produced by VICSES December 2020.

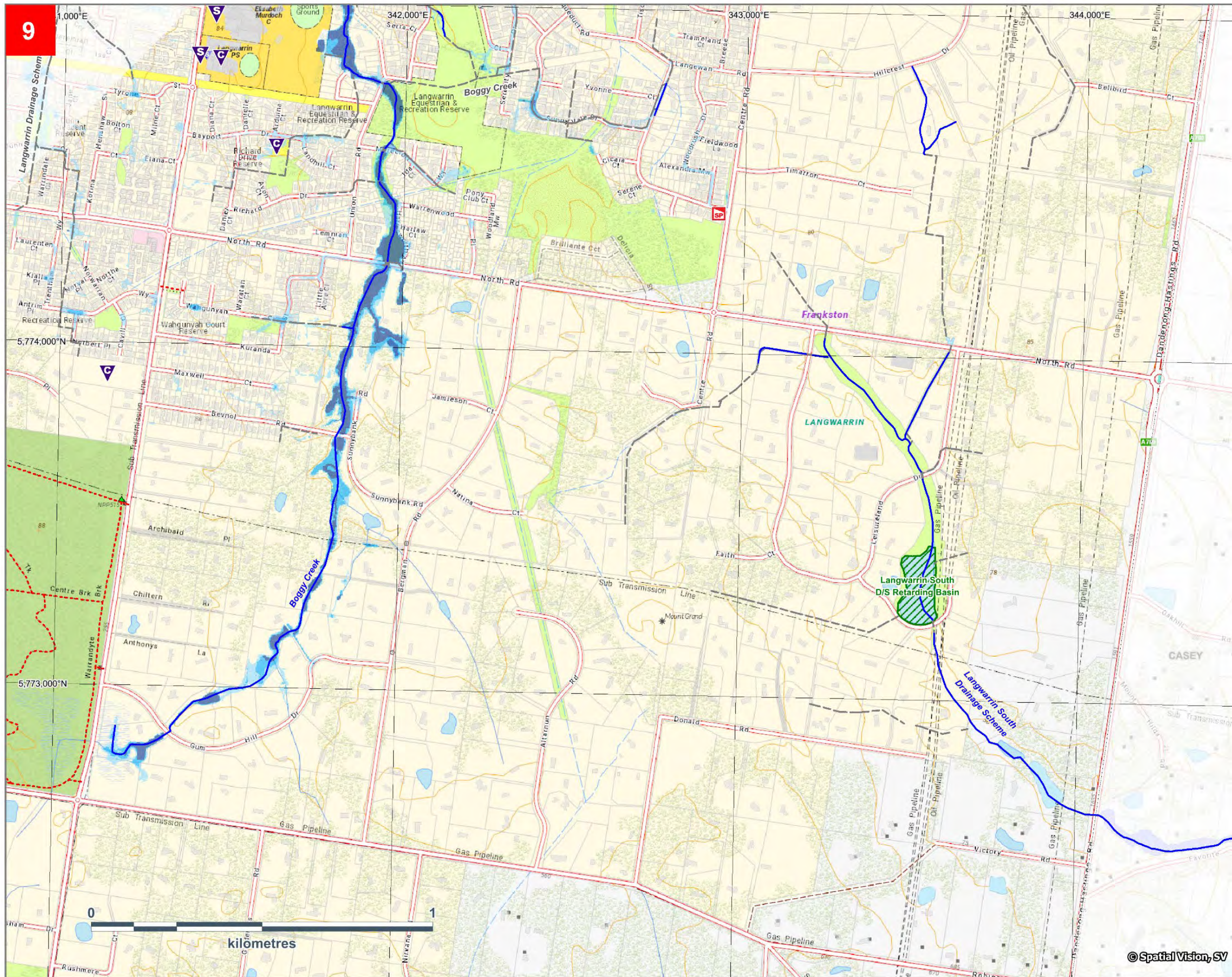
CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
8. Baxter East and West Drains
 (Frankston South and Langwarrin South)

- | | | |
|--------------------------------------------------|----------------------------------|-----------------------|
| Building | Melbourne Water Retarding Basin | Sewer Pumping Station |
| Waterbody | Melbourne Water Stormwater Drain | School / College |
| 1% AEP Riverine Flood Extent (Depth Unavailable) | Waterway | |
| Aged Care / Retirement Village | Bicycle / Walking Trail | |
| 1% AEP Flood Depth (>5cm) | Aged Care / Retirement | |
| Greater than 60cm | Child Care / Kindergarten | |
| Between 30cm and 60cm | Community Centre | |
| Between 5cm and 30cm | Fire Station | |

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



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	Building
	Waterbody
	Retarding Basin
1% AEP Flood Depth (>5cm)	
	Greater than 60cm
	Between 30cm and 60cm
	Between 5cm and 30cm
	Bicycle / Walking Trail
	Melbourne Water Stormwater Drain
	Waterway
	Sewer Pumping Station
	Child Care / Kindergarten
	Education Facility
LAND USE	
	Residential
	Commercial and Business
	Industrial
	Public Parks / Cemeteries / Recreation
	Utilities and Local Government Facilities
	Education



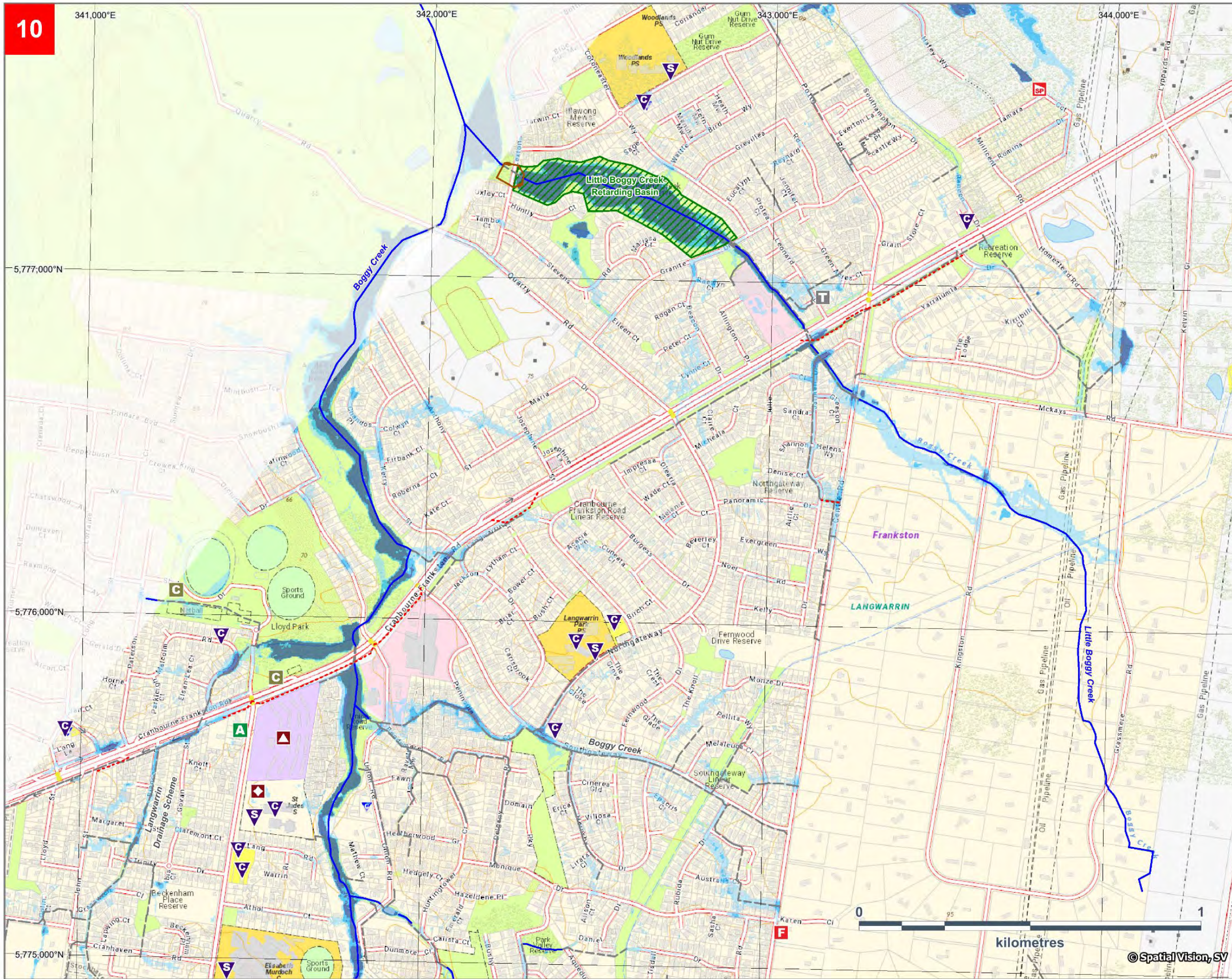
CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
9. Bogy Creek (Langwarrin)



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Flood modelling completed by GHD, July 2020. Map Produced by VICSES July 2020.

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	Building
	Waterbody
	Retarding Basin
	Aged Care / Retirement Village

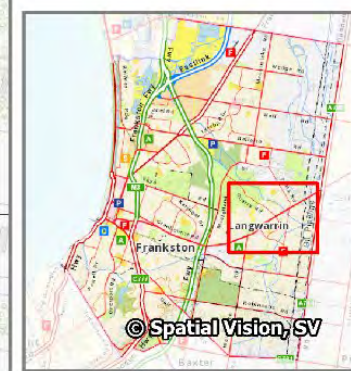
1% AEP Flood Depth (>5cm)

	Greater than 60cm
	Between 30cm and 60cm
	Between 5cm and 30cm

	Bicycle / Walking Trail
	Melbourne Water Stormwater Drain
	Waterway
	Embankment
	Sewer Pumping Station
	Child Care / Kindergarten
	Education Facility
	Ambulance Station
	Telephone Exchange
	Place Of Worship
	Community Centre
	Fire Station
	Aged Care Facility

LAND USE

	Residential
	Commercial and Business
	Industrial
	Public Parks / Comenories / Recreation
	Utilities and Local Government Facilities
	Education

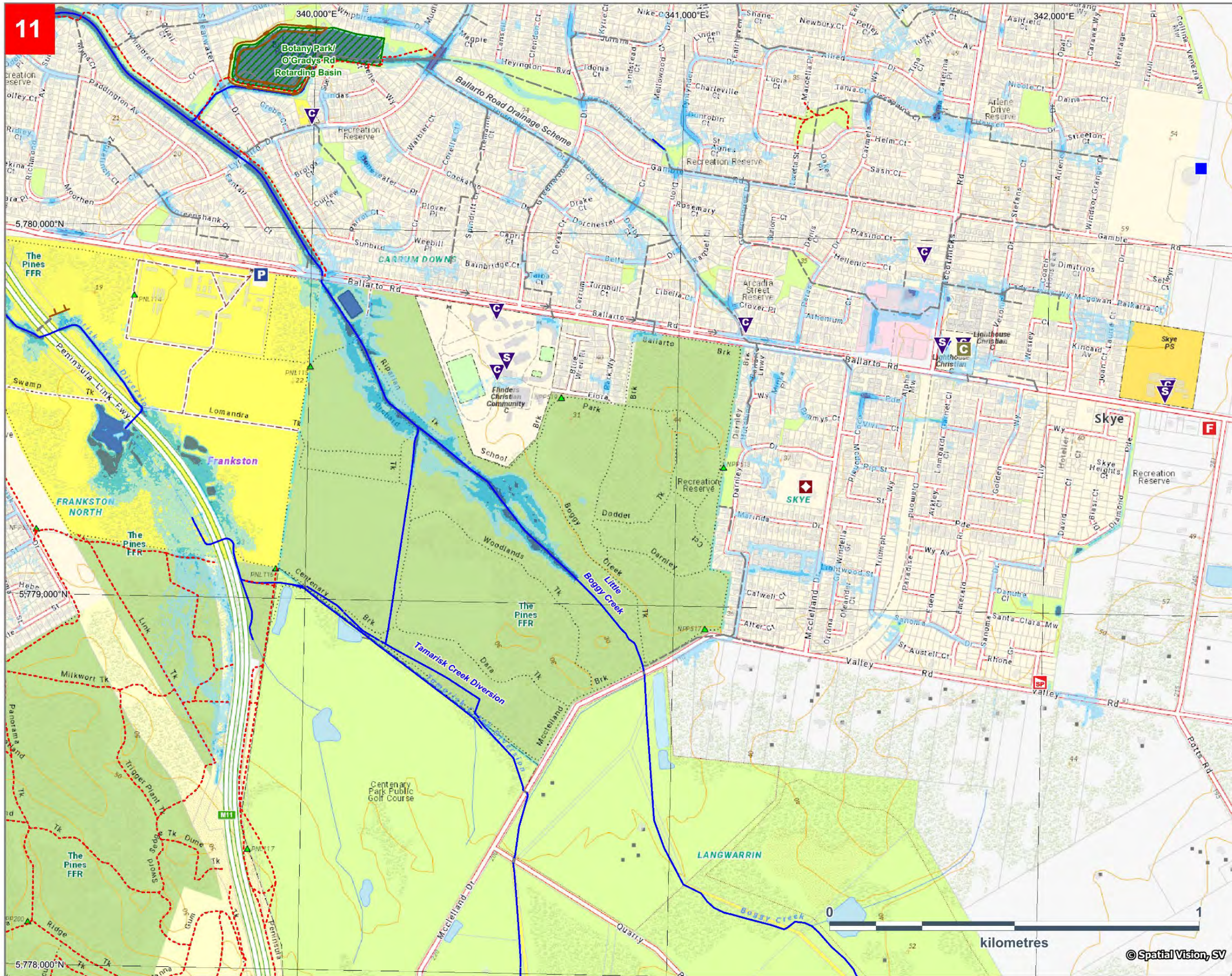


N

CITY OF FRANKSTON
1% AEP (100yr ARI) Flooding
10. Little Bogy Creek (Langwarrin)

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Flood modelling completed by GHD, July 2020. Map Produced by VICSES July 2020.



11

- Building
- Waterbody
- Retarding Basin

1% AEP Flood Depth (>5cm)

- Greater than 60cm
- Between 30cm and 60cm
- Between 5cm and 30cm

- Bicycle / Walking Trail
- Melbourne Water Stormwater Drain
- Waterway
- Embankment

- Child Care / Kindergarten
- Education Facility
- Community Centre
- Police Station
- Sewer Pumping Station

LAND USE

- Residential
- Commercial and Business
- Industrial
- Public Parks / Corseries / Recreation
- Utilities and Local Government Facilities
- Education



N

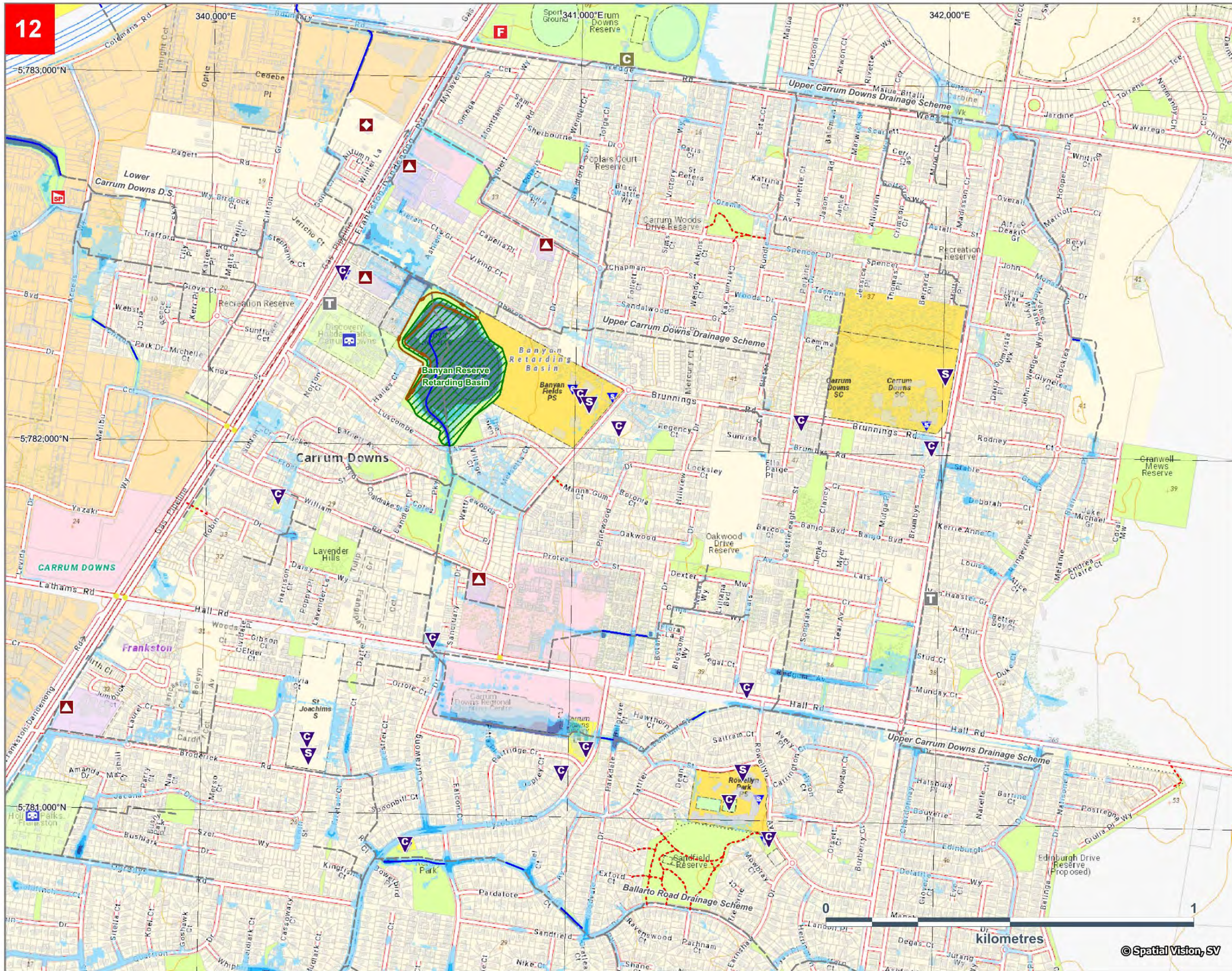
CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
 11. Ballarto Road Drain
 (Carrum Downs)

SES VICTORIA Melbourne Water

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Flood modelling completed by Melbourne Water, December 2017. Map Produced by VICSES July 2020.

12



- Building
- Waterbody
- Retarding Basin
- 1% AEP Flood Depth (>5cm)**
- Greater than 60cm
- Between 30cm and 60cm
- Between 5cm and 30cm
- Bicycle / Walking Trail
- Melbourne Water Stormwater Drain
- Waterway
- Embankment
- Child Care / Kindergarten
- Education Facility
- Community Centre
- Aged Care / Retirement Village
- Sewer Pumping Station
- Caravan Park
- Fire Station
- Telephone Exchange

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



N

CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
12. Upper Carrum Downs Drain (Carrum Downs)



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Flood modelling completed by GHD, July 2020. Map Produced by VICSES July 2020.



Flood modelling completed by GHD, July 2020. Map Produced by VICSES December 2020.

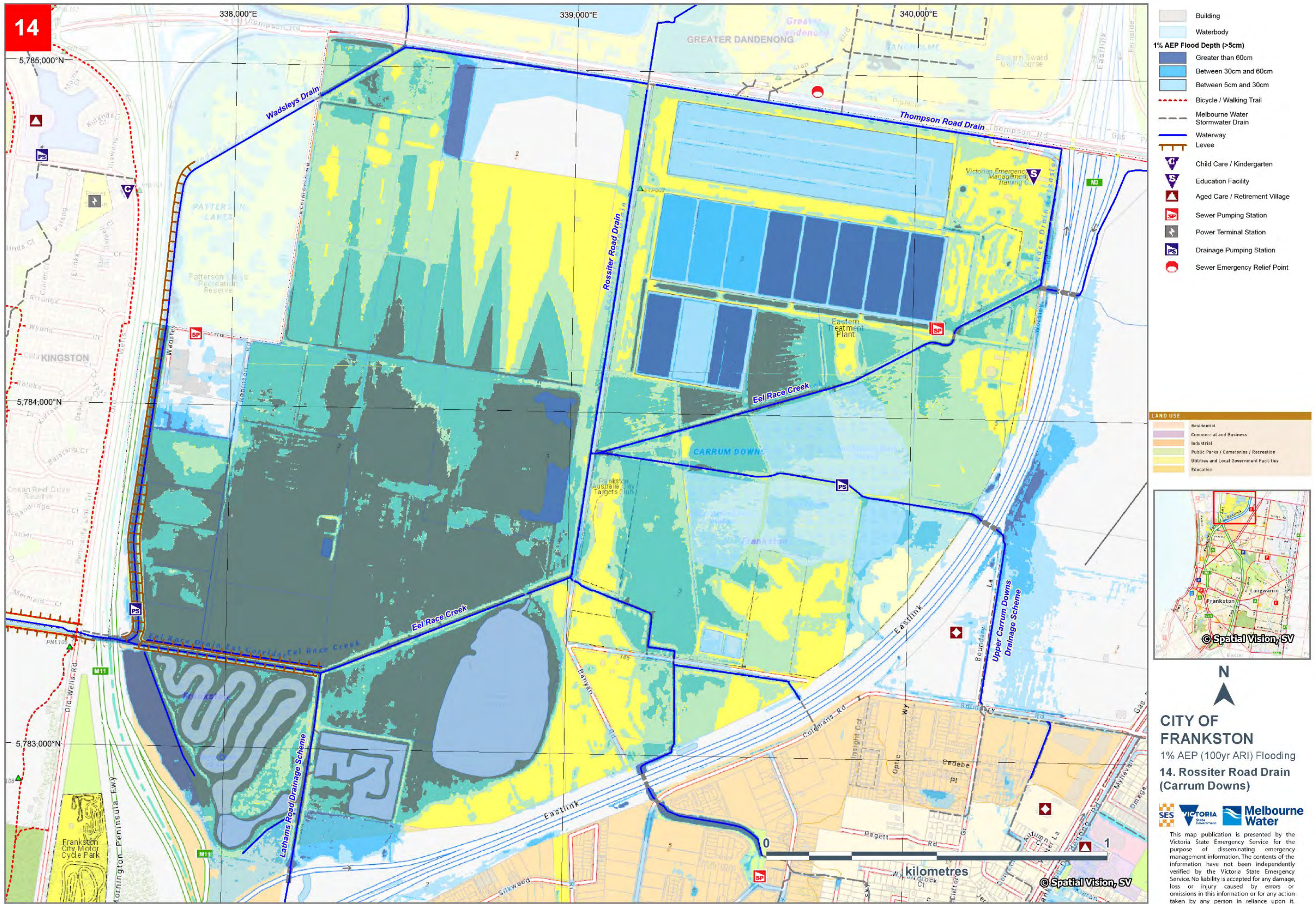
CITY OF FRANKSTON
 1% AEP (100yr ARI) Flooding
13. Lathams Road Drain (Carrum Downs)

- | | | | | | |
|-------------------------------------|--------------------------------|--|----------------------------------|--|--------------------------------|
| | Building | | Waterway | | Aged Care / Retirement Village |
| | Waterbody | | Melbourne Water Stormwater Drain | | Caravan Park |
| 1% AEP Flood Depth (>5cm) | | | | | Telephone Exchange |
| | Greater than 60cm | | Bicycle / Walking Trail | | Child Care / Kindergarten |
| | Between 30cm and 60cm | | Education Facility | | Community Centre |
| | Between 5cm and 30cm | | Sewer Pumping Station | | |
| | Aged Care / Retirement Village | | | | |
| | Retarding Basin | | | | |

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

SES VICTORIA **Melbourne Water**

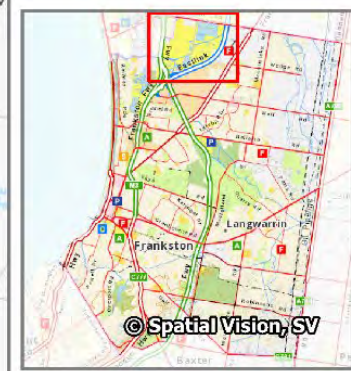
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Flood modelling completed by GHD, August 2020. Map Produced by VICSES July 2020.

- Building
- Waterbody
- 1% AEP Flood Depth (>5cm)**
 - Greater than 60cm
 - Between 30cm and 60cm
 - Between 5cm and 30cm
- Bicycle / Walking Trail
- Melbourne Water Stormwater Drain
- Waterway
- Levee
- Child Care / Kindergarten
- Education Facility
- Aged Care / Retirement Village
- Sewer Pumping Station
- Power Terminal Station
- Drainage Pumping Station
- Sewer Emergency Relief Point

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

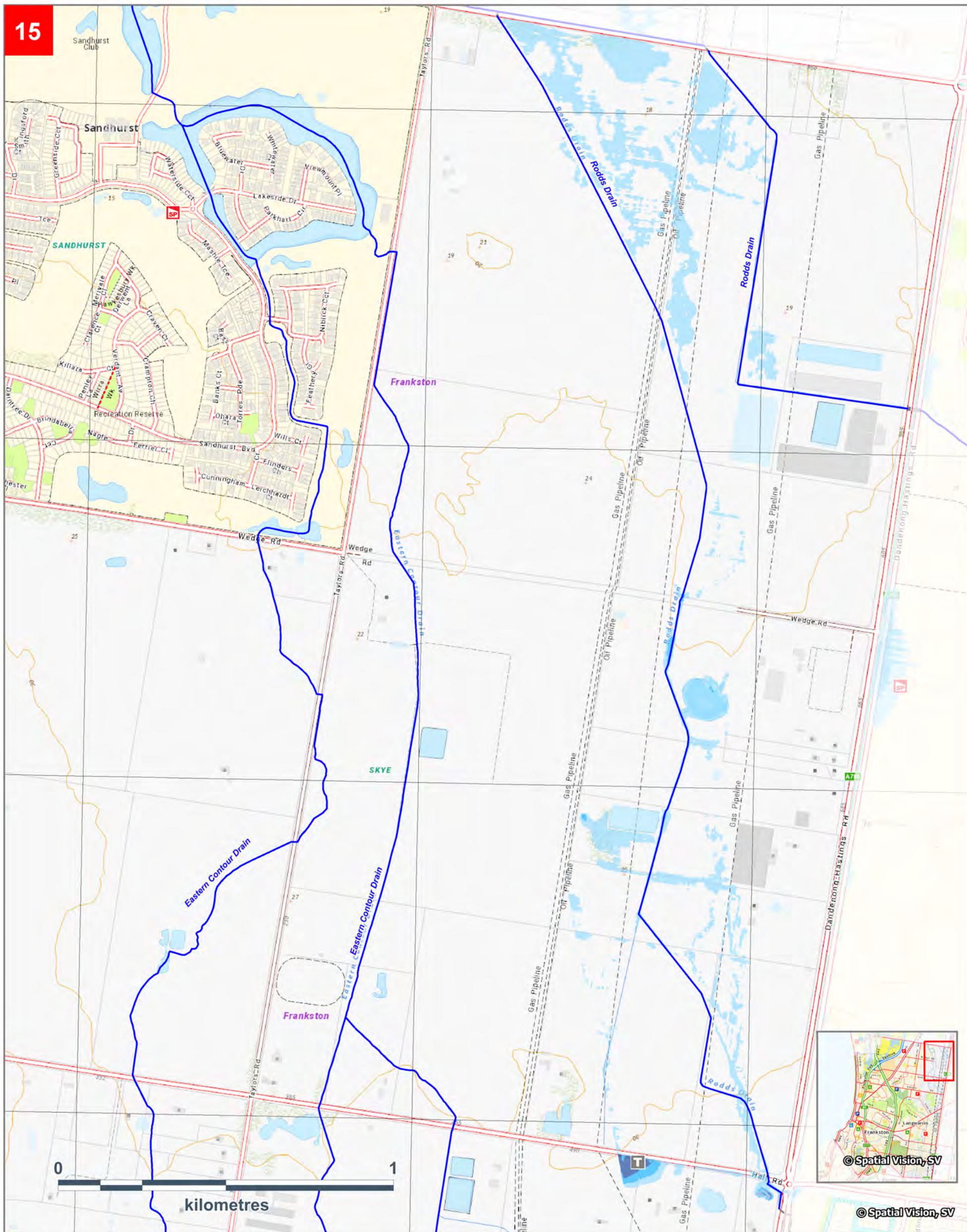


N

CITY OF FRANKSTON
1% AEP (100yr ARI) Flooding
14. Rossiter Road Drain (Carrum Downs)



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Flood modelling completed by Water Technology, July 2013. Map Produced by VICSES December 2020.

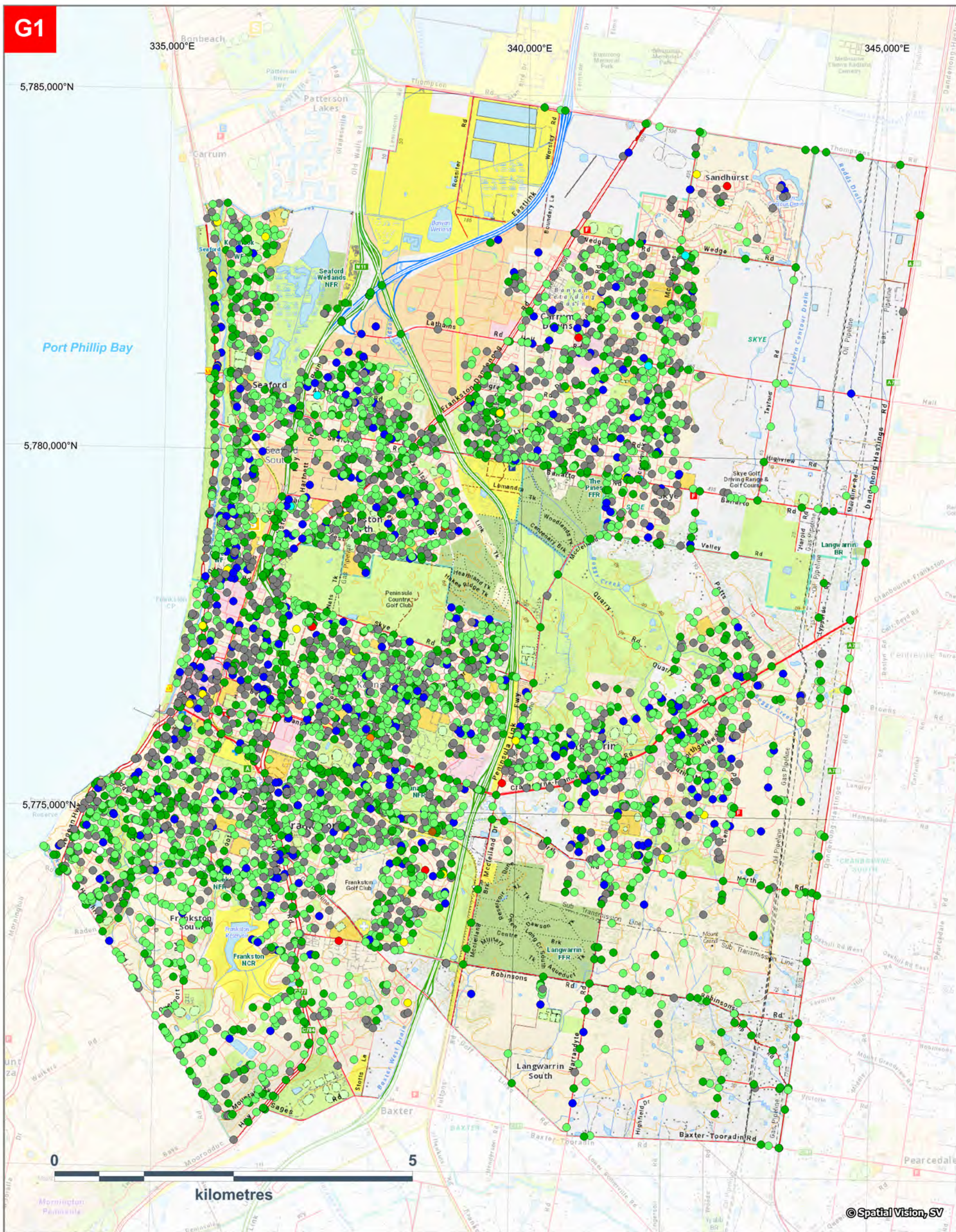
CITY OF FRANKSTON
1% AEP (100yr ARI) Flooding
15. Rodds Drain (Skye)

Building	Waterway
Waterbody	Sewer Pumping Station
1% AEP Flood Depth (>5cm)	Telephone Exchange
Greater than 60cm	
Between 30cm and 60cm	
Between 5cm and 30cm	

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



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Map Produced by VICSES December 2020.

CITY OF FRANKSTON

Version 4: December 2020

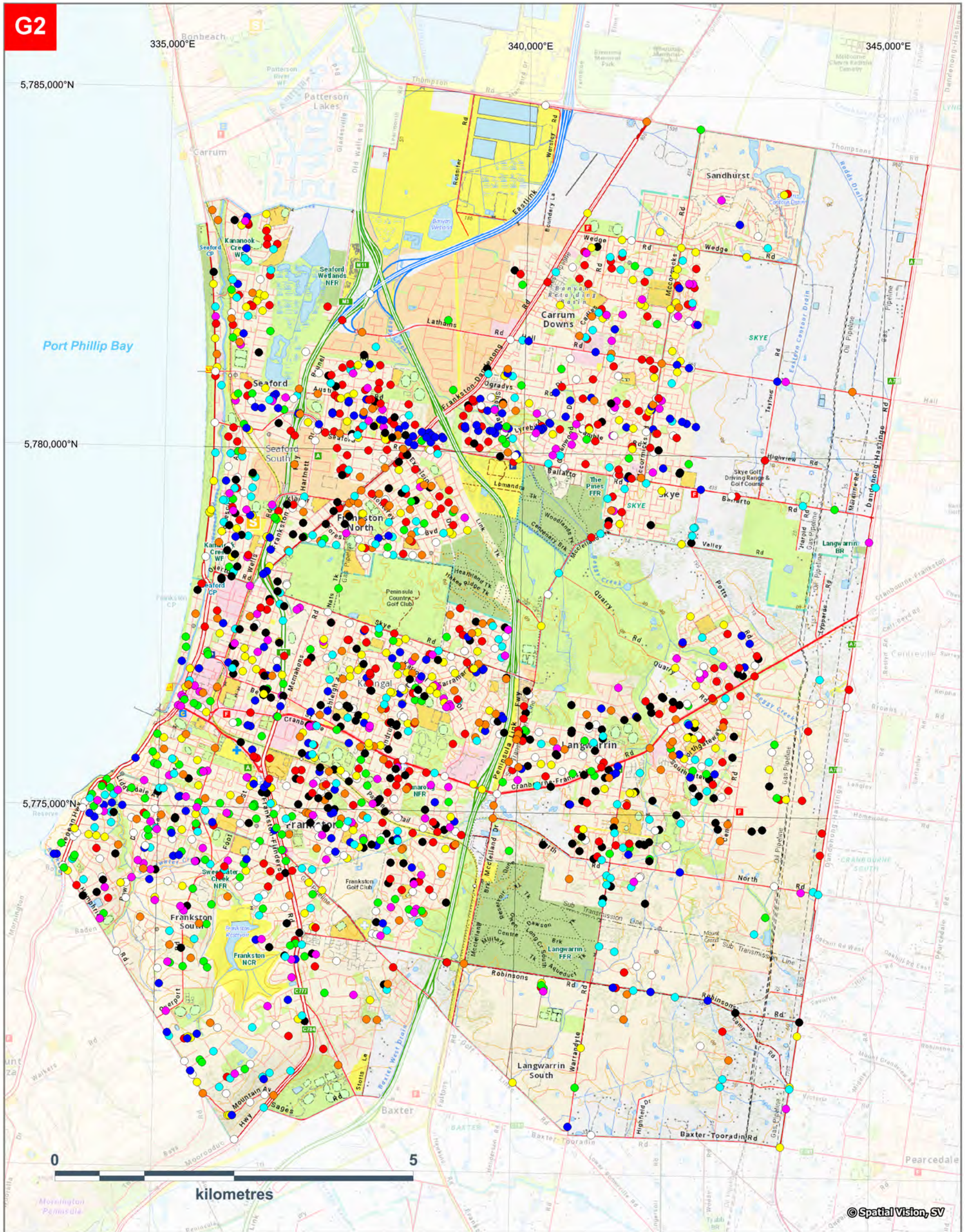
G1. Severe Weather Requests for Assistance (RFA) by Job Type (July 2009 - August 2020)

- Severe Weather Requests for Assistance (RFAs)**
- Assist Agency (7)
 - Building Damage (1,786)
 - Flooding (487)
 - Other (8)
 - Landslide (2)
 - Loose Debris / Objects / Fence (30)
 - Rescue (9)
 - Sandbag Request (1)
 - Tree Down (2,846)
 - Tree Down Traffic Hazard (1,642)

State Emergency Service



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Map Produced by VICSES December 2020.

CITY OF FRANKSTON

Version 4: December 2020

G2. Severe Weather Requests for Assistance (RFA) by Event (July 2009 - August 2020)

Severe Weather Requests for Assistance (RFAs) (Storm or Flood)
(by month greater than 150 requests received)

September 2010 (252)	June 2014 (246)	February 2018 (215)
November 2011 (258)	July 2016 (187)	March 2018 (163)
October 2013 (316)	October 2016 (213)	February 2020 (168)

SES State Emergency Service

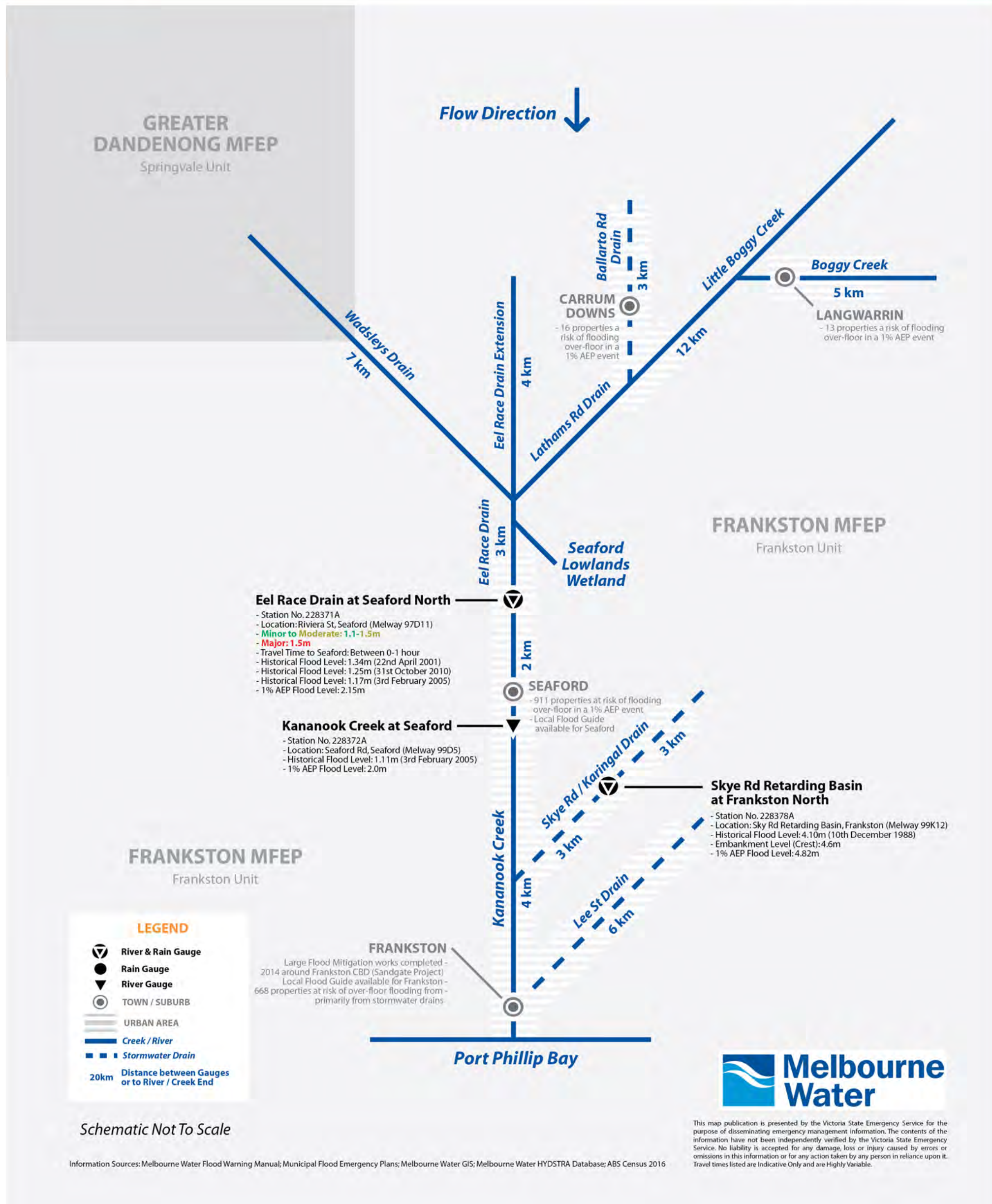


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Kananook Creek Catchment Schematic

Version 2 - January 2021



Schematic Not To Scale

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



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Eumemmerring Creek Catchment Schematic

Version 5 - April 2019

YARRA RANGES MFEP

Emerald, Lilydale, Healesville & Upper Yarra Units

Eumemmerring Creek at Narre Warren North

- Station No. 228235A
- Location: Belgrave-Hallam Rd, Narre Warren North
- Travel Time to Dandenong South: Between 4-6 hours
- Historical Flood Level: 2.87m (3rd February 2005)
- Historical Flood Level: 2.39m (13th November 2004)
- Significant Level: 3.8m Top of Left Bank at Gauge Location
- Significant Level: 4.4m Top of Right Bank at Gauge Location
- 1% AEP Flood Level: 3.83m

CASEY MFEP

Narre Warren Unit

ENDEAVOUR HILLS & DOVETON

- 6 properties at risk of flooding over-floor in a 1% AEP event

GREATER DANDENONG MFEP

Greater Dandenong Unit

Eumemmerring Creek at Dandenong South

- Station No. 228203C
- Location: Abbots Rd, Dandenong South
- Travel Time to Patterson Lakes: Between 2-11 hours
- Historical Flood Level: 3.49m (5th February 2011)
- Levee Height (Crest) at Gauge Location: 4.2m (Approximate)
- 1% AEP Flood Level: 3.80m

DANDENONG SOUTH

- 138 properties at risk of flooding in a 1% AEP event
- Big 4 Dandenong Tourist Park & Willow Lodge Mobile Home Retirement Village on Dandenong-Frankston Rd at risk from Levee over-topping at 4.8m on the Dandenong South Gauge
- South Gippsland Hwy at risk of flooding in a 1% AEP event

Dandenong Creek at Keysborough

- Station No. 228356B
- Location: Eastlink Crossing, Keysborough

Dandenong Creek

See Dandenong Creek Catchment Schematic

Flow Direction ↓

CASEY MFEP

Narre Warren Unit

BERWICK

- 58 properties at risk of flooding over-floor in a 1% AEP event

NARRE WARREN NORTH

- 6 properties at risk of flooding over-floor in a 1% AEP event

NARRE WARREN SOUTH

- Narre Warren-Cranbourne Rd flooded in a 1% AEP event at Golf Links Rd

Cranbourne

- Station No. 586375
- Location: Botanical Gardens, Cranbourne (Melway 133E12)

NARRE WARREN

- Casey Aged Care on Golf Links Rd at risk of isolation if Hallam Valley Contour Drain floods
- Narre Warren-Cranbourne Rd flooded at Railway Underpass in Feb 2011 & Dec 2016 flood events
- Centre Road & Shrivies Road at risk of flooding at 3.0m on the Hampton Park Gauge

HAMPTON PARK

- 36 properties at risk of flooding over-floor across Hampton Park East & West Drains in a 1% AEP event
- Area severely impacted in the 4th February 2011 event

Hallam Valley Contour Drain at Hampton Park

- Station No. 228231A
- Location: Rowland Close, Hampton Park (Melway 96D4)
- Travel Time to Dandenong South: Between 0-3 hours
- Travel Time to Patterson Lakes: 5-13 hours
- Historical Flood Level: 3.60m (7th August 1978)
- Historical Flood Level: 3.60m (26th July 1987)
- Levee Height (Crest) at Gauge Location: 3.50m (Approximate)
- 1% AEP Flood Level: 3.30m

Eastern Contour Drain at Dandenong South

- Station No. 228233A
- Location: Glasscocks Road, Dandenong South (Melway 128E3)
- Historical Flood Level: 2.86m (22nd June 2012)
- Historical Flood Level: 2.66m (5th February 2011)
- Significant Level: 3.5m Breakout Level of Channel

LEGEND

- Stream Level & Rain Gauge
- Rain Gauge
- Stream Level Gauge
- TOWN / SUBURB
- URBAN AREA
- Creek / River
- Stormwater Drain
- 20km Distance between Gauges or to River / Creek End

Schematic Not To Scale



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sAPPENDIX G – SEVERE WEATHER (STORM) EVENTS

Overview

Frankston City is susceptible to severe weather events because of a combination of its undulating terrain, urban boundary location and wind exposed properties. Storm events in the municipality may be subject to include wind storms, hailstorms, and thunderstorms (including lightning activity). There have also been occurrences of atmospheric downbursts/microburst within Frankston and adjacent municipalities.

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.

This Appendix uses Request for Assistance data from the Victoria State Emergency Service (VICSES) to display areas at risk from severe weather events.

Large Storm Events

Typically, the Frankston unit would expect to be impacted by a large storm event once or twice a year (more than 100 RFA's per event).

Since 2009 the following larger storm events have occurred in Frankston City:

- September 2010 that saw **252** requests for help received, with a large number of trees down and building damage due to fallen trees.
- November 2011 – Flood and storm event which saw **258** RFA's received, for flooding, wind and hail damage.
- October 2013 – **316** requests received for Trees Down and Building damage.
- June 2014 – Another high wind event that saw **468** requests received for tree damage.
- October 2016 – A storm that saw with **308** requests received
- February 2018 – A storm that brought down many trees resulting in **215** requests for help
- October 2021 – A storm that resulted in 800 RFA's mainly for trees down

VICSES Requests for Assistance (RFAs)

The Victoria State Emergency Service records requests for assistance made by the public during severe weather events. Table G1 below is a breakdown of requests by suburb and damage type during the period July 2009 and August 2020.

VICSES Request for Assistance (July 2009 – August 2020)					
Suburb	Building Damage	Flooding	Tree Down	Tree Down Traffic Hazard	Other *
Carrum Downs	242	48	331	178	7
Frankston	692	170	931	452	22
Frankston North	89	13	170	83	4
Frankston South	194	48	444	237	4
Langwarrin	181	96	386	229	4
Langwarrin South	10	6	42	54	0
Sandhurst	18	4	6	7	2
Seaford	280	85	435	294	12
Skye	80	17	95	78	2

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

*Assist Agency, Fence Down, Landslide, Loose Debris / Objects, Rescue Persons Trapped, Rescue Structure Collapse, Rescue Vehicle into Structure and Sandbag Request

Table G2 is a breakdown of requests for assistance by date (month) and damage type.

VICSES Request for Assistance (July 2009 – August 2020)					
Date	Building Damage	Flooding	Tree Down	Tree Down Traffic Hazard	Other*
July 2009	2	0	5	1	0
August 2009	28	0	41	20	0
September 2009	10	1	13	5	0
October 2009	5	7	2	1	0
November 2009	9	2	6	3	0
December 2009	0	0	6	4	0
January 2010	9	2	20	14	0
February 2010	15	10	28	20	0
March 2010	11	5	5	4	0
April 2010	35	7	13	7	0
May 2010	5	0	5	1	0
June 2010	10	2	11	10	0
July 2010	3	0	3	0	0
August 2010	7	4	14	13	0
September 2010	59	1	133	59	0
October 2010	14	14	13	9	0
November 2010	24	10	27	22	0
December 2010	18	23	25	16	0
January 2011	10	11	13	10	0
February 2011	6	26	18	9	0
March 2011	5	0	6	10	0
April 2011	2	2	6	3	0
May 2011	10	1	6	6	0
June 2011	16	1	36	15	0
July 2011	9	0	11	5	0
August 2011	2	0	1	4	0
September 2011	4	3	11	13	0
October 2011	2	0	6	6	0
November 2011	59	148	37	12	2

OFFICIAL

VICSES Request for Assistance (July 2009 – August 2020)					
Date	Building Damage	Flooding	Tree Down	Tree Down Traffic Hazard	Other*
December 2011	3	4	7	2	0
January 2012	21	0	45	28	0
February 2012	11	0	42	10	0
March 2012	19	0	44	13	0
April 2012	26	3	49	21	0
May 2012	13	1	25	10	0
June 2012	10	7	12	6	0
July 2012	2	1	4	2	0
August 2012	8	0	8	10	0
September 2012	24	0	67	24	0
October 2012	1	1	3	1	0
November 2012	2	0	12	3	0
December 2012	4	0	25	14	0
January 2013	9	2	9	6	0
February 2013	7	4	10	6	0
March 2013	14	0	24	17	0
April 2013	0	0	0	0	0
May 2013	2	2	3	7	0
June 2013	12	2	1	2	0
July 2013	8	1	19	13	0
August 2013	40	2	37	24	0
September 2013	25	0	46	28	0
October 2013	98	0	149	69	0
November 2013	8	2	7	6	0
December 2013	3	0	7	1	0
January 2014	4	0	26	11	0
February 2014	7	0	15	9	0
March 2014	22	4	9	3	0
April 2014	10	1	5	5	0
May 2014	1	1	3	1	0
June 2014	76	1	99	70	0
July 2014	12	0	23	7	0
August 2014	2	0	10	2	0
September 2014	23	0	44	25	0
October 2014	14	1	23	11	0
November 2014	10	1	6	6	0
December 2014	8	0	17	11	0
January 2015	12	0	28	12	0
February 2015	7	0	10	12	0
March 2015	14	1	46	22	0
April 2015	5	1	4	3	0
May 2015	7	0	12	6	0
June 2015	3	0	5	4	0
July 2015	11	2	8	5	0
August 2015	7	0	5	4	0
September 2015	6	0	1		0
October 2015	3	0	5	5	0
November 2015	6	0	13	6	0
December 2015	9	1	12	12	0
January 2016	11	3	44	25	0
February 2016	3	29	9	6	0
March 2016	0	3	62	37	0
April 2016	3	0	10	5	0
May 2016	41	11	44	26	0
June 2016	7	0	16	4	0
July 2016	47	1	75	64	0
August 2016	4	0v	2	7	0

VICSES Request for Assistance (July 2009 – August 2020)					
Date	Building Damage	Flooding	Tree Down	Tree Down Traffic Hazard	Other*
September 2016	4	2	4	1	0
October 2016	62	0	101	50	0
November 2016	16	0	10	7	0
December 2016	20	26	9	13	0
January 2017	3	1	5	6	0
February 2017	13	13	10	10	0
March 2017	3	0	10	15	0
April 2017	10	0	6	5	0
May 2017	1	0	2	3	0
June 2017	1	0	2	1	0
July 2017	0	0	3	2	0
August 2017	6	0	4	6	0
September 2017	8	0	16	9	0
October 2017	4	1	2	4	0
November 2017	10	0	4	4	0
December 2017	35	26	9	5	0
January 2018	7	2	14	8	0
February 2018	51	0	108	56	0
March 2018	38	1	82	42	0
April 2018	23	0	32	8	0
May 2018	5	0	2	3	0
June 2018	10	2	6	7	0
July 2018	10	0	14	12	0
August 2018	11	1	13	8	0
September 2018	7	0	4	0	0
October 2018	3	1	3	3	0
November 2018	18	2	7	2	1
December 2018	12	7	7	5	1
January 2019	34	9	25	23	2
February 2019	4	1	15	12	1
March 2019	14	1	24	15	0
April 2019	0	0	10	9	0
May 2019	8	4	15	9	0
June 2019	4	1	2	4	0
July 2019	20	1	38	32	0
August 2019	18	3	38	25	5
September 2019	5	0	18	1	0
October 2019	2	2	4	6	0
November 2019	12	1	21	11	2
December 2019	3	2	20	12	0
January 2020	20	5	76	39	5
February 2020	26	8	86	41	7
March 2020	9	1	5	11	0
April 2020	17	7	39	12	5
May 2020	2	1	19	6	5
June 2020	2	2	6	3	0
July 2020	2	2	2	3	1
August 2020	11	3	33	8	9

Table G2 – Breakdown of severe weather RFAs received by VICSES Hastings and Sorrento Units by month

*Assist Agency, Dam Incident, Fence Down, Landslide, Loose Debris / Objects, Rescue Persons Trapped, Rescue Structure Collapse, Rescue Vehicle into Structure and Sandbag Request