# Notice of Application for a Planning Permit



The land affected by the application is located at:		2003\PP3953, L1 TP828779, L1 TP84823, L1 TP808002, 65, 70 and 75A Heads Road, Lang Lang		
The application is for a permit to:		Building and works for a Utility Installation (fish lock) and associated vegetation removal.		
A permit is required under the following clauses of the planning scheme:			ne:	
35.04-5	Construct a building or construct or carry out works associated with a use in Section (Utility Installation)			
42.03-2	Construct a building or construct or carry out works			
42.03-2	Remove, destroy or lop vegetation			
'		APPLICATION DETAILS	Cardinia ADVERTISED MATERIAL	
The applicant for the permit is:		Melbourne Water	Transming Application: 12:0442  Date Prepared: 26 November 2025  This copied document is made available for the purpose of the planning process as set out in the Planning and Environment Act 1987. The information must not be used for any other purpose. by Italians a copy of this document you acknowledge	
Application number:		T250442	and agree that you will only use the document for the purpose specified above and that any dissemination, distribution or copying of this document is strictly prohibited.	

You may look at the application and any documents that support the application at the office of the Responsible Authority:

Cardinia Shire Council, 20 Siding Avenue, Officer 3809.

This can be done during office hours and is free of charge.

Documents can also be viewed on Council's website at <a href="mailto:cardinia.vic.gov.au/advertisedplans">cardinia.vic.gov.au/advertisedplans</a> or by scanning the QR code.



#### **HOW CAN I MAKE A SUBMISSION?**

This application has not been decided. You can still make a submission before a decision has been made. The Responsible Authority will not decide on the application before:

#### 12 December 2025

#### WHAT ARE MY OPTIONS?

Any person who may be affected by the granting of the permit may object or make other submissions to the responsible authority.

If you object, the Responsible Authority will notify you of the decision when it is issued. An objection must:

- be made to the Responsible Authority in writing;
- include the reasons for the objection; and
- state how the objector would be affected.

Application is here

The Responsible Authority must make a copy of every objection available at its office for any person to inspect during office hours free of charge until the end of the period during which an application may be made for review of a decision on the application.





3







Notice

Consideration of submissions

Assessment

Decision



#### ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025

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# **ePlanning**

#### **Application Summary**

Portal Reference A32580W

#### **Basic Information**

Proposed Use	Building and works associated with Utility Installation and ancillary vegetation removal, LSIO Clause 64.04 - Building and Works SLO Clause 42.03 - Building and Works and Vogetation Removal
Current Use	Heads Road Wet Structure, Lang Lang
Cost of Works	\$6,500,000
Site Address	Heads Road, Lang Lang Vc 3984 - Percel ID: 2003/979353 and 1/17626779 75A Heads Road, Lang Lang Vic 3984 - Percel ID: 1/17606062 75 Heads Road, Lang Lang Vic 3984 - Percel ID: 1/1766823

#### Covenant Disclaimer

Order the proposal breach, in any way, an ensumbrance on title such as restrictive coverant, section 178 agreement or other obligation such as an easument or building envelope?

No such encumbrances are breached

Note: During the application process you may be required to provide more information in relation to any encumbrances.

#### Contacts

Туре	Name	Address	Contact Details
Applicant	Melbourne Weter	P.O. Box 4342, Nelsourne VIC 3001	W: 0483-283-584 E: Vickignma2@melboumewater.com.au
Owner	Melbourne Water	P.D. Box 4342, Nelbourne VIC 3001	W: 0483-283-584 E: VcNigrima2@rnebournewater.com.au
Preferred Contact	SHD	Level/8 180 Lonsdale Street, Melbourne VIC 3000	W: 8687-8132 E: nicole.bardey@ghd.com

#### Fees

		Total		\$9,875.90
- Class 14	More than \$5,000,000 but not more than \$15,000,000	19,875.30	100%	\$9,875.50
tegulatio	on Fee Condition	Amount	Modifier	Payable

#### Meetings



Clvic Centre 20 Siding Avenue, Officer, Victoria

Council's Operations Centre (Depot) Purton Road, Pakenham, Victoria Postal Address Cardinia Shire Council P.O. Box 7, Pakenham VIC, 3810

Email: mail@cardinia.vic.gov.au

Monday to Friday 8.30am-

5pm

Phone: 1300 787 624 After Hours: 1300 787 624 Flox: 03 5941 3784

#### **Documents Uploaded**

Date	Туре	Filename
24-07-2025	Additional Document	12697984-REP-0_Lang Niver Fish Lock - Application for a Hanning Permit pdf

Remember it is against the law to provide false or misleading information, which could result in a heavy fine and cancellation of the permit.

#### **Lodged By**

Site User		P.D. Box 4342, Melbourne VIC 3001	W: 0483-283-584
	Melbourne Water		E: vicki.grima2@melboumewater.com.au
Submission Date	24 May 2025 - 02:48:PM		

#### Declaration

By ticking this checkbox, the Applicant and/or Owner (if not myself) has been notified of the application.



Civic Centre 20 Siding Avenue, Officer, Victoria

Council's Operations Centre (Depot) Purton Road, Pakesham, Victoria Postal Address Cardinia Shire Council P.D. Box 7, Pakenhern VIC, 3810

Beneil: mol@zardria.vic.gov.au

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# Lang Lang River Fish Lock Project

**Application for a Planning Permit** 

Melbourne Water 24 July 2025



180 Lonsdale Street, Level 9 Melbourne, Victoria 3000 Australia Australia



Our ref: 12637984

24 July 2025

Principal Statutory Planner Cardinia Shire Council PO Box 7 Pakenham, Victoria 3810



Date Prepared: 26 November 2025

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#### Lang Lang River Fish Lock Project



GHD Pty Ltd (GHD) has prepared this planning report on behalf of Melbourne Water (MW) to support an application for a planning permit to construct a fish lock retrofitted within the existing drop structure at Lang Lang River (the Project).

A planning permit is required to develop land and to remove vegetation for the Project pursuant to the Cardinia Planning Scheme (the Scheme).

This application details the proposal and provides an assessment of the Project against the relevant provisions of the Scheme. Details of the application are set out in this report and includes the following supporting documentation:

- Attachment 1 Certificate of Title
- Attachment 2 Development Plans
- Attachment 3 Flora and Fauna Assessment
- Attachment 4 Native Vegetation Removal Report
- Attachment 5 Vegetation Offset Availability Statement
- Attachment 6 Cultural Heritage Due Diligence Assessment
- Attachment 7 Flooding Report
- Attachment 8 MW Pre-development Advice Response

MW has had correspondence with yourself about this Project and would therefore appreciate if the application could please be allocated to you for assessment.

MW has placed a high priority on the provision of adequate fish passage at this site and are eager to progress the application. It would be greatly appreciated if you could please respond to this application in a timely manner to best support the provision of this critical infrastructure.

I look forward to receiving a positive response to the Project. Please do not hesitate to contact me via the details below if you have any queries.

Regards,
Technical Director



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Project name Document title Project number File name		Lang Lang River Fish Lock						
		Lang Lang River Fish Lock Project   Application for a Planning Permit						
		12637984						
		12637984-REP_Lang River Fish Lock - Application for a Planning Permit						
Status	Revision	Author	Reviewer		Approved	Approved for issue		
Code			Name	Signature	Name	Signature	Date	
S4	0						24/07/25	
[Status code]								
(Status code)								
[Status code]								
[Status code]								

## GHD Pty Ltd | ABN 39 008 488 373

Contact: echnical Director | GHD

180 Lonsdale Street, Level 9

Melbourne, Victoria 3000, Australia

T 03 8687 8000 | F 03 8732 7046 | E melmail@ghd.com | ghd.com

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# **Attachments**

Attachment 1	Registered Search Statements
Attachment 2	Development Plans
Attachment 3	Flora and Fauna Assessment
Attachment 4	Native Vegetation Removal Report
Attachment 5	Vegetation Offset Availability Statement
Attachment 6	Cultural Heritage Due Diligence Assessment
Attachment 7	Flooding Report
Attachment 8	MW Pre-development Advice Response



# 1. Introduction

# 1.1 Purpose of this report

This planning report has been prepared by GHD Pty Ltd (GHD) on behalf of Melbourne Water (MW) to accompany an application for a planning permit for the development of land for a fish lock retrofitted within the existing drop structure (Heads Road Weir) at Lang Lang River.

Under the Scheme, a planning permit is required pursuant to:

- Clause 42.03 Significant Landscape Overlay (SLO3) to construct a building or construct or carry out works and to remove destroy or lop any vegetation
- Clause 44.04 Land Subject to Inundation Overlay (LSIO) to construct a building or construct or carry out works

This application provides an overview of the proposed development and an assessment against the relevant provisions of the Scheme.

A summary of the application details is provided in Table 1 below.

Table 1 Application details

Applicant	Melbourne Water
Property details	Heads Road, Lang Lang VIC 3984
Title details	Cardinia ADVERTISED MATERIAL Planning Application: T250442 Date Prepared: 26 November 2025 TPB08 Hecopied document is made available for the purpose of the planning process as set out in the Planning and Environment Act 1967. This information must not be used for any other purpose. By taking a copy of this document you acknowledge and agree that you will only use the document for the purpose specified above and that any dissemination, distribution or copying of this document is strictly prohibited.
Responsible Authority	Cardinia Shire Council
Land use definition	Clause 73.03 – Utility installation
Zones	Clause 35.04 – Green Wedge Zone, Schedule 1 (GWZ1) Clause 36.01 – Public Use Zone, Schedule 1 (PUZ1)
Overlays	Clause 42.03 – Significant Landscape Overlay, Schedule 3 (SLO3) Clause 44.04 – Land Subject to Inundation Overlay (LSIO1)
Particular provisions	Clause 52.17 – Native Vegetation
General provisions	Clause 63 – Existing Uses Clause 66 – Referrals and Notice Provisions
Permit triggers	Clause 42.03 – SLO3 to construct a building or construct or carry out works and to remove destroy or lop any vegetation  Clause 44.04 – LSIO1 to construct a building or construct or carry out works
Notification / Referrals	Clause 66.03 – Determining referral to Melbourne Water for an application under the LSIO Clause 66.06 – Notification to the National Trust for an application under the SLO3
Applicant details	Melbourne Water 990 Latrobe Street Docklands, VIC 3008
Contact person	GHD Level 8, 180 Lonsdale Street Melbourne VIC 3000

# Project details

This section presents an overview of the Project, including a description of the site (Project footprint) and its surrounds (Project area), the proposed works, and relevant environmental, heritage, and design considerations.

# 2.1 Project background

MW is seeking to construct a fish lock within the existing Heads Road weir at Lang Lang River, Victoria, 500 metres (m) west of Heads Road to enable fish passage upstream of the existing concrete drop structure.

The Lang Lang River is a regionally important waterway and supports a number of native flora and fauna species. Since European settlement, it has been subject to significant modification that has compromised the health of fish. The Heads Road weir downstream of Heads Road was subsequently identified as a significant barrier to the passage of native fish.

MW has placed a high priority on the provision of adequate fish passage at this site. Once completed, the Project will provide a substantial length of excellent habitat for native fish.

# 2.2 Subject site and surrounding environment

The Project is located within a section of the Lang Lang River located within the Cardinia Shire municipality, approximately 6 kilometres (km) east of the Lang Lang township and 75.5 km south-east of Melbourne. The fish lock will be retrofitted into the existing weir structure 478.5 metres (m) west of the Heads Road bridge.

The Lang Lang River is a 10 km perennial river located in the Gippsland Plain Bioregion of the Westernport Catchment in Victoria. The topography of the land is flat, with native vegetation lining the banks on either side of the river. This section of the river is a man made change.

Adjoining land uses comprise agricultural packeys to me the property land holdings and residential homesteads. The surrounding topography is flat, and the majority source of the property introduced pasture vegetation. The Lang Lang Sands Quarry is located approximate very land to the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the document very land and the purpose by using a copy of the copy of th

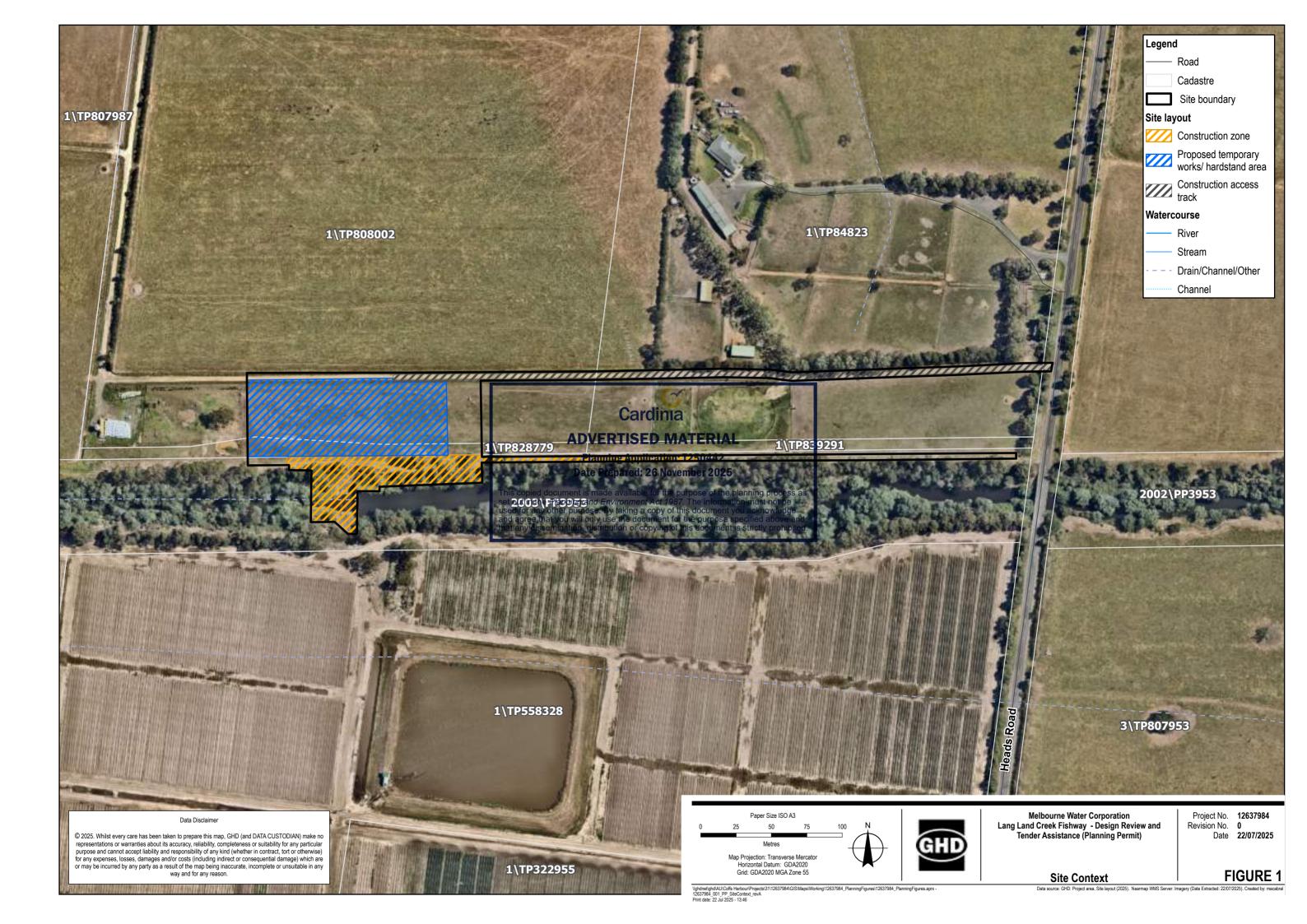
#### 2.2.1 Land tenure

The Project will be located within several parcels along the Lang Lang River. Copies of the Certificates of Title are included in Attachment 1.

The details of land tenure are presented in Table 2 below.

Table 2 Land tenure

Address of land	Parcel ID	Landowner details	Encumbrances etc.	
Heads Road, Lang	2003\PP3953		None.	
Lang VIC 3984	1\TP828779		None.	
75A Heads Road, Lang Lang VIC 3984	1\TP808002		None.	
75 Heads Road, Lang Lang VIC 3984	1\TP84823		None.	



# 2.3 Existing use and proposed development

Lang River Fish Lock is a type of structure which helps enable fish passage past a weir (both upstream and downstream). It will be a concrete structure built within the existing weir and apron footprint. Water enters the lock chamber via the top gate and cascades over internal weirs. The entrance slot has been sized and located to provide fish passage through optimum attraction velocities and turbulence criteria.

The proposed works for the project consist of a fish lock, concrete steps from the access track to the fish lock structure, an electrical cabinet and access track.

The fishway is considered an ancillary use to the existing weir, as its function is to maintain the role of the Lang Lang River as a natural system and to enhance biodiversity and instream values upstream of the weir through provision of fish passage past the weir. It is ancillary to the dominant land use of managing instream flows and storm and flood water. The Project will not change the existing use or introduce a new use.

Table 3 Proposed works

	1	
Proposed works	Features	
Fish lock	<ul> <li>Installation of conf</li> <li>Fish lock chamber</li> <li>Weir panel construction</li> <li>Plunge pool weir of</li> <li>Installation of grate</li> <li>Aluminium bulkhe</li> <li>Sidewinder gate in</li> <li>DLF gate installation</li> <li>Installation of hydron</li> <li>Installation of scool</li> </ul>	uction construction (precast) ing walkway and platform ads and stoplogs installation installation
Temporary works	Access track	<ul> <li>Vehicles will access the site via an existing well-formed access track that leads off Heads Road</li> <li>Access track will be widened to 6 m to allow for construction vehicles onto the site</li> <li>Track will be reinstated to its previous conditions at the end of construction</li> </ul>
	Laydown area	<ul> <li>Laydown area has been designed to support all traffic and truck movements, the crane pad, and amenities required for the site</li> <li>After construction, the laydown area will be removed and all rock, topsoil, and seeding will be removed</li> </ul>
	Crane pad	<ul> <li>A crane pad will be required to support a 200-tonne crane to safely install the fish lock</li> <li>The crane pad will be built within the hardstand area and rehabilitated afterwards</li> </ul>
	Fencing	A chain mesh fence will be installed around the site



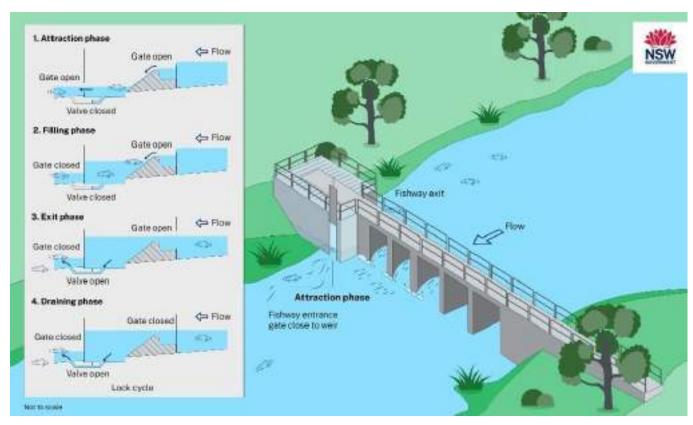


Figure 2 Diagram of a fish lock in operation (MDBA, 2024)

# 2.3.1 Construction and operation

Temporary laydown and construction activities will occur partly on privately-owned land at 75 Heads Road. This land is presently used for farmland activities. The owners of this land have provided permission to lop vegetation on their property and has been provided at Attachment 8.



# 2.4 Environmental, heritage, and design considerations

#### 2.4.1 Flora and fauna assessment

GHD prepared a Flora and Fauna Assessment in June 2024 to assess the current ecological values and potential impacts associated with the Project. The key findings of this assessment include:

- The Project area comprises remnant patches of native vegetation including Ecological Vegetation Class (EVC) 937 (Swampy Woodland) and EVC 125 (Plains Grassy Wetland), both listed as Endangered in the Gippsland Plain Bioregion
- The retention of potentially impacted native vegetation will be determined by the successful contractor post-award. Therefore, both impacted and potentially impacted native vegetation have been considered in the Native Vegetation Removal Report and offset calculations. If potentially impacted native vegetation can be retained, this should be reconciled post-works by an accredited native vegetation assessor.
- No communities listed under the Environment Protection and Biodiversity Act 1999 (EPBC Act) or the Flora and Fauna Guarantee Act 1988 (FFG Act) were identified
- No flora species listed as threatened under the EPBC Act or FFG Act were identified during the site assessment
- One protected flora species (restricted use) was identified within the Project footprint, however an FFG Permit
  to Take Protected Species is not required for the incidental take of protected flora listed as restricted use as
  long as reasonable care is taken to not impact the taxon
- Five weed species listed under the Catchment and Land Protection Act 1994 (CaLP Act) were identified within the Project area and will require management during, and after, construction
- Five fauna species listed as threatened under the EPBC Act may occur within or near the study site
- Four fauna species listed as migratory under the EPBC Act are considered likely to be rare visitors to the study site
   ADVERTISED MATERIAL
- One FFG Act-listed fauna species, Platypus (Ornithorthyrnchus anatinus), is known to occur within the study site
- Four additional FFG Act-listed fauna species are considered as possibly occurring within or near the study site.

#### 2.4.1.1 Native vegetation impacts

Despite efforts undertaken to avoid and minimise impacts on native vegetation during the Project, the proposed works will impact 0.17 hectares of native vegetation across one habitat zone, Swampy Woodland (EVC 937). This is comprised of 0.123 hectares of impacted native vegetation and 0.047 hectares of potentially impacted native vegetation.

General offsets are required for this Project, 0.053 General Habitat Units (GHU) with a minimum strategic biodiversity value score of 0.3464 are required from within the Port Phillip and Westernport (Melbourne Water) CMA or Cardinia Shire Council.

MW has an 'in house' offset bank and is proposing to source offsets for the Project from their own offset bank. The Vegetation Offset Availability Statement is included at Attachment 5.

#### 2.4.1.2 Avoid and minimise statement

The report provided the following recommendations to avoid impacts to native vegetation:

- Contractors undertaking the works will access the fish lock via the previously disturbed property on the
  northern side of the waterway. This area is currently used for agricultural purposes (including stock and horse
  grazing) and as such contains minimal native vegetation.
- Contractors will utilise an access route through the farm property rather than using the access road immediately adjacent to the waterway. The alternative access track is larger and will not require the removal or lopping of native vegetation in order to facilitate access by heavy machinery.

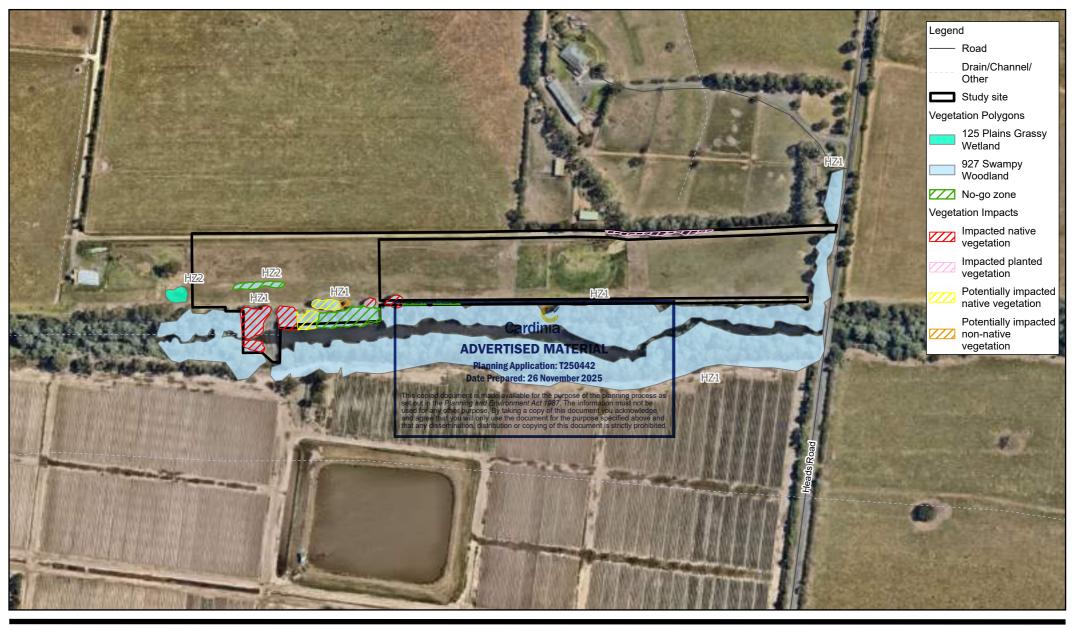
- GHD has worked with MW to refine the works footprint. These alterations included removing the coffers from the weir design and incorporating construability advice which reduced impacts on native vegetation from 0.425 ha to 0.17 ha.
- Of the 0.17 ha of impacted native vegetation, 0.047 ha will potentially be retained which is to be determined by the successful contractor post-award

Prior to works commencing, it is recommended a Construction Environmental Management Plan (CEMP) is developed and implemented for the Project to further avoid and minimise impacts to ecological values. The CEMP should include measures to avoid or minimise impacts on ecological values including:

- Implement measures, such as temporary No-Go Zones, to protect native vegetation to be retained. No Go
  Zones should be clearly delineated so that construction workers are able to avoid any accidental damage to
  native vegetation during construction, beyond the approved Project footprint.
- Sediment control devices such as silt traps and sediment fencing during the construction period
- Measures to prevent contaminants (e.g., oils, chemicals) from entering aquatic habitat or waterways as the results of accidental spills
- Based on our understanding of the proposed works, dewatering will be conducted across approximately three weeks during summer, avoiding works during Platypus breeding season (August to September)
- Works during Platypus nesting season (September to February) will avoid disturbing river banks as heavy machinery can impact platypus burrows if they are present
- It is understood that the water level would be drawn down for approximately three weeks in summer during
  which precast panels will be installed. Ensuring water levels aren't completely reduced in the weir pool during
  this period is necessary to secure access to habitat for Platypus and reduce the possibility of bank erosion.
- Water levels do not usually drop below one metre during summer in this section of the Lang Lang River and should ideally be kept at this level. Water quality monitoring with a focus on dissolved oxygen (the parameters of which are to be determined by a suitably qualified ecologist) is recommended to observe if lowering the water level is having an impact on macroinvertebrates fauna which platypus prey on.
- Any in-water works that can impact water quality, flow levels or aquatic habitat conducted during Dwarf Galaxias spawning season (May to September) should be avoided if possible
- Weed, disease, and pest control measures to prevent the spread of existing and/or the introduction of new weeds, diseases, or pests to the Project area

A copy of the Flora and Fauna Assessment is included as Attachment 3.







Map Projection: Transverse Mercator Horizontal Datum: GDA2020 Grid: GDA2020 MGA Zone 55





Melbourne Water Corporation Lang Lang Creek Fishway -Design Review and Tender Assistance Project No. 12637984 Revision No. 0

Date 22/07/2025

Native vegetation impacts

FIGURE 3

# 2.4.2 Cultural heritage

GHD undertook a Cultural Heritage Due Diligence Assessment (CHDDA) for the Project in June 2024. The key findings of this assessment are as follows:

- A mandatory Cultural Heritage Management Plan (CHMP) is not required for the Project under Section 46(1)(a) of the Aboriginal Heritage Act 2006
- The works are deemed a high impact activity under the Aboriginal Heritage Regulations 2018, however the Project footprint is not located within an area of Cultural Heritage Sensitivity
- There are no Victorian Heritage Register (VHR) or Victorian Heritage Inventory (VHI) places intersecting with the Project footprint
- The 'Lang Lang Rural' landscape (Hermes Number 70322) covers the Project footprint, however the proposed works will not impact this feature
- No registered heritage values under the World Heritage List, National Heritage List, or Cultural Heritage List intersect the area, so there are no triggers under the EPBC Act
- The potential for Aboriginal cultural heritage material to be present at the Project footprint is considered low
- The Bunurong Land Council Aboriginal Corporation (BLCAC) do not have a Land Use Activity Agreement (LUAA) in place

A copy of the CHDDA has been included as Attachment 6.

#### 2.4.3 Flood considerations

GHD undertook a Flood Study for the Project in September 2018, a copy is provided at Attachment 7. Hydraulic modelling was undertaken to determine the impacts of the fish lock on the existing condition of Lang Lang River. The results of the investigation and modelling revealed the following:

- The hydraulic modelling analysis was undertaken in CFD to enable a more accurate representation of the new works to be incorporated
- The original HEC-RAS model was updated to include the existing weir, the new rock chutes and calibration for a Manning's
- Afflux in the nominal 100-year ARI flow is limited to 42 mm under the proposed arrangement at the structure and 30 mm at the Heads Road Bridge
- All hydraulic modelling is reliant on the existing gauging information available, however this gauging information should be validated as anecdotal evidence suggests that there is a discrepancy

The results above indicated that from the information used and after implementing rigorous modelling techniques, the afflux of 30mm indicates very limited impact of the proposed fish lock on Lang River.



# 3. Planning assessment

The following section outlines the relevant planning provisions that apply to the Project area under the Scheme and the *Planning and Environment Act 1987* (the Act). This section assesses the Project against the relevant provisions, controls and policies of the Scheme.

#### 3.1 Land use definition

The purpose of the weir is to regulate the flow of the river in order to minimise erosion. This meets the definition of a *utility installation*, defined in Clause 73.03 as *land used*:

- d) to collect, treat, transmit, store, or distribute water; or
- e) to collect, treat, or dispose of storm or flood water, sewage, or sullage

The fish way is considered an ancillary use to the existing weir, as its function is to maintain the role of the Lang Lang River as a natural system and to enhance biodiversity and instream values upstream of the weir. It is ancillary to the dominant land use of managing instream flows and storm and flood water. The Project will not change the existing use or introduce a new use.

# 3.2 Planning policy

The following section discusses the local and state policies that are relevant to the Project.

# 3.2.1 Planning Policy Framework (PPF)

The Planning Policy Framework (PPF) provides the overland development across

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Table 4 Response to Planning Policy Frame with prepared: 26 November 2025
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Clause	Response to policy
State policy	
Clause 12.01-1S Protection of	This clause seeks to protect and enhance Victoria's biodiversity.
biodiversity	The restoration of fish passage through Lang Lang River will contribute to, and enhance, the biodiversity of the river by redistributing fish species, improving aquatic habitat, and rebuilding fish populations.
Clause 12.01-2S Native vegetation	This clause seeks to ensure that there is no net loss to biodiversity as a result of the removal, destruction or lopping of native vegetation.
management	Efforts have been made to avoid and minimise impacts to native vegetation where possible in the design and construction methodology. Nevertheless, the unavoidable loss of 0.158 ha of native vegetation will be removed to facilitate the Project.
Clause 12.03-1S River and riparian	This clause intends to protect and enhance waterway systems including river and riparian corridors, waterways, lakes, wetlands and billabongs.
corridors, waterways, lakes, wetlands and billabongs	The main driver of this Project is to provide safe passage for fish in the Lang Lang River. This Project will protect the environmental quality of the larger catchment and contribute to fish biodiversity. The fish lock and construction methodology have been designed to avoid erosion and detrimental impacts to the water body and to ensure the river's natural capacity to manage flood flow is not compromised.
Clause 12.05-1S Environmentally	This clause aims to protect and conserve environmentally sensitive areas with significant recreational value.
sensitive areas	This Project will provide ecologically beneficial infrastructure, which will assist 'environmental conservation' of the Lang Lang River. The Project will have a positive impact on the environment of the West Gippsland region.

Clause	Response to policy
Clause 12.05-2S Landscape	This clause seeks to protect and enhance significant landscapes and open spaces that contribute to character, identify and sustainable environments.
·	The Project is situated within Heath Hill, a landscape of heritage significance identified by the National Trust of Australia. The fish lock will be retrofitted into the existing weir, and the surrounding native vegetation provides natural screening from the nearby roads.
Clause 13.02-1S Bushfire planning	The objective of this clause is to strengthen the resilience of settlements and communities to bushfires through risk-based planning that priorities the protection of human life.
	The proposed works are wholly located within a Bushfire Prone Area (BPA), as seen in Figure 4. However, it is not expected that the proposed works will increase the risk of bushfire, now will it increase the vulnerability of the community to bushfire and surrounding landscape due to the works being designed and sited by engineers.
Clause 13.03-1S Floodplain management	The purpose of this clause is to protect infrastructure from flood hazards and protect the natural flood carrying capacity of waterways and floodplains.
	The fish lock will be retrofitted into the existing weir for the purpose of providing safe passage for fish to move through the river. It will not intensify the impact of flooding.
Clause 14.01-1S	This clause seeks to protect Victoria's agricultural base by preserving productive farmland.
Protection of agricultural land	Part of the Project area is located within the GWZ1. The temporary works are situated within the GWZ1 and will not compromise the ongoing use of the land for agricultural farming purposes. The permanent infrastructure proposed is situated within the river, zoned PUZ1.
Clause 14.02-1S Catchment planning	This clause aims to protect and restore catchments, waterways, estuaries, bays, water bodies, groundwater, and the marine environment.
and management	The main driver of this Project is to provide safe passage for fish in the Lang Lang River. This Project will protect the environmental quality of the larger catchment and contribute to fish biodiversity.
Clause 14.02-2S	This clause seeks to protect water quality.
Water quality	The construction methodology has been designed to ensure water quality is preserved, minimising any run-off and impacts to the river.
Clause 15.03-2S Aboriginal cultural	The purpose of this clause is to ensure the protection and conservation of places of Aboriginal cultural heritage significance.
heritage	In June 2024 a cultural heritage due diligence assessment was undertaken for the proposed works, a copy is provided at Attachment 6. The assessment concluded that a mandatory Cultural Heritage Management Plan is not required for the Project.
Regional policy	
Clause 14.01-1R Protection of	This clause seeks to agricultural land in Metropolitan Melbourne's green wedges and periurban areas to avoid the permanent loss of agricultural land in those locations.
agricultural land – Metropolitan Melbourne	Some works are proposed within the GWZ1; however, these works are temporary and will not compromise the ongoing use of the land for agricultural farming purposes.
Local policy	
	the local PPF that are relevant to the Project.



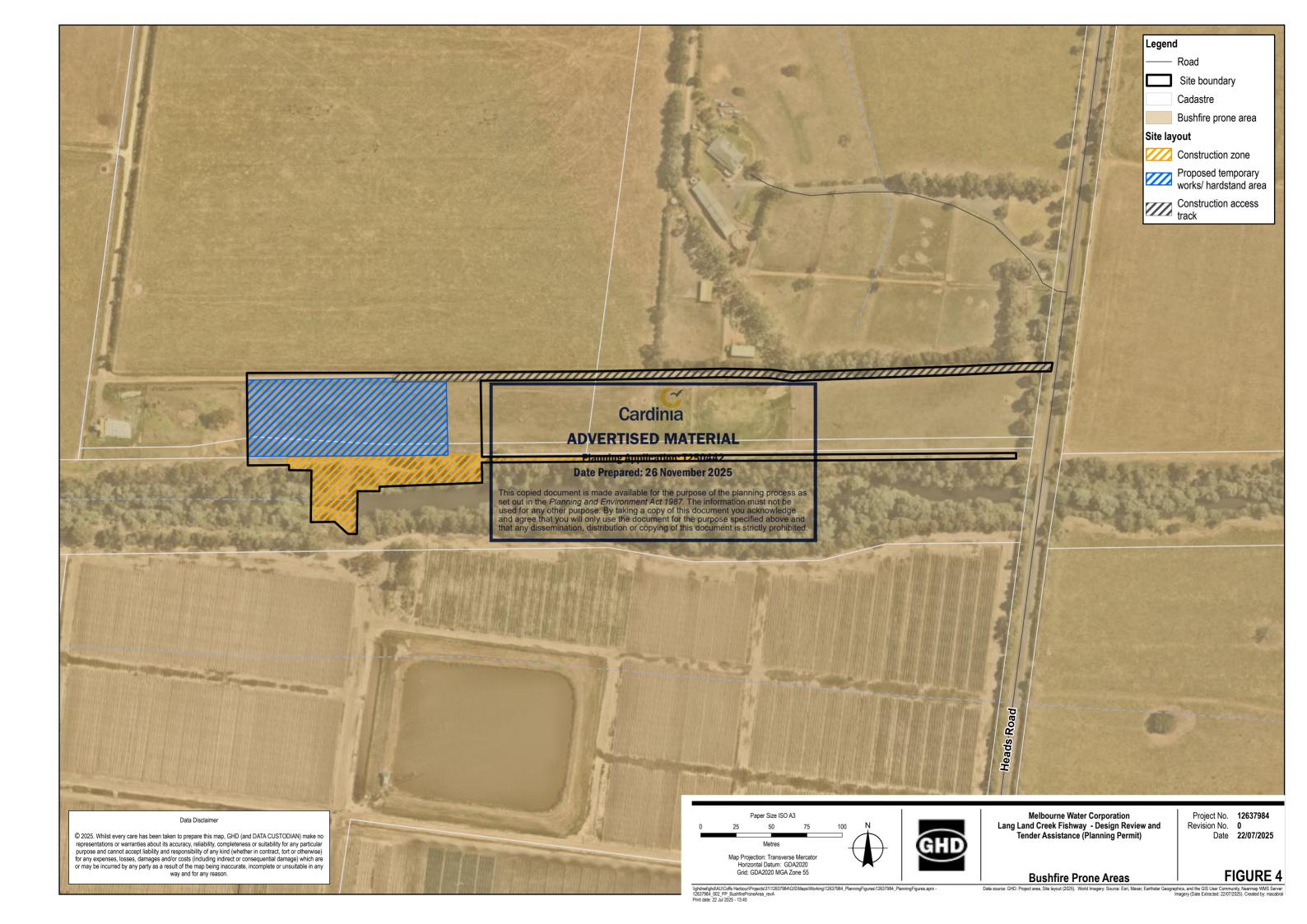
# 3.2.2 Municipal Planning Strategy (MPS)

The Municipal Planning Strategy (MPS) provides the overarching strategic policy directions of the municipality, responding to local issues and challenges. An assessment of the Project against the MPS is provided in Table 5.

Table 5 Response to the Municipal Planning Strategy

Clause	Response to policy
Clause 21.01 Cardinia Shire Key Issues and Strategic Vision	The Cardinia Shire landscape generally comprises flat alluvial plains, which have been substantially cleared of vegetation for agricultural land uses of State significance. Key issues of focus for Cardinia Shire include the protection of environmentally significant landscapes, and the protection and management of biodiversity.
	The main driver of this Project is to provide safe passage for fish in the Lang Lang River. The Lang Lang River is a regionally significant waterway, supporting a diversity of flora and fauna species. The fish lock will facilitate access to a substantial area of high-quality habitat for native fish species.
Clause 21.02-2 Landscape	Cardinia Shire has a diversity of significant landscapes, including Heath Hill, which has been recognised by the National Trust. This clause seeks to protect these significant landscape values from development inconsistent with the surrounding area.
	The fish lock will be retrofitted into the existing weir which sits within the river. The river banks and surrounding native vegetation provide natural screening from the nearby roads and sightlines.
Clause 21.02-3 Biodiversity	Habitat decline and fragmentation resulting in biodiversity loss is a key issue within the municipality. This clause seeks to protect and re-establish native vegetation and wildlife corridors to support biodiversity.
	The proposed construction of the fish lock will allow adequate fish passage through the Lang Lang River, re-establishing an essential corridor through the river for aquatic species.





# 3.3 Planning controls

An assessment of the Project against the applicable zones, overlays and particular provisions of the Scheme is presented below.

### 3.3.1 Planning zones

The Project is subject to the following zones:

- Clause 35.04 Green Wedge Zone (GWZ1)
- Clause 36.01 Public Use Zone (PUZ1)

A zoning map is provided at Figure 5.

#### Clause 35.04 - Green Wedge Zone - Schedule 1 (GWZ1)

The Project is partially located within the GWZ1.

The purpose of the GWZ is to:

- To implement the Municipal Planning Strategy and the Planning Policy Framework
- To provide for the use of land for agriculture
- To recognise, protect and conserve green wedge land for its agricultural, environmental, historic, landscape, recreational and tourism opportunities, and mineral and stone resources
- To encourage use and development that is consistent with sustainable land management practices
- To encourage sustainable farming activities and provide opportunity for a variety of productive agricultural uses
- To protect, conserve and enhance the cultural heritage significance and the character of open rural and scenic non-urban landscapes
- To protect and enhance the biodiversity of thecamea

Pursuant to clause 35.04-1, a planning permit by Errussp Materials to the land of for a utility installation as it is a Section 2 Use within the GWZ1, however due to the site being affected existing use rights (see discussion below at section 3.3.4) a permit is not required for the Use in the Planning and Errusometh and

In addition, works proposed within the GWZ1 relate to a femporary laydown/ site accessway. Therefore, the Project can benefit from clause 62.02-1 – buildings and works not requiring a permit:

A temporary shed or <u>temporary structure for construction purposes</u>

Therefore, there are no planning permit requirements under this provision.

#### Clause 36.01 - Public Use Zone (PUZ1)

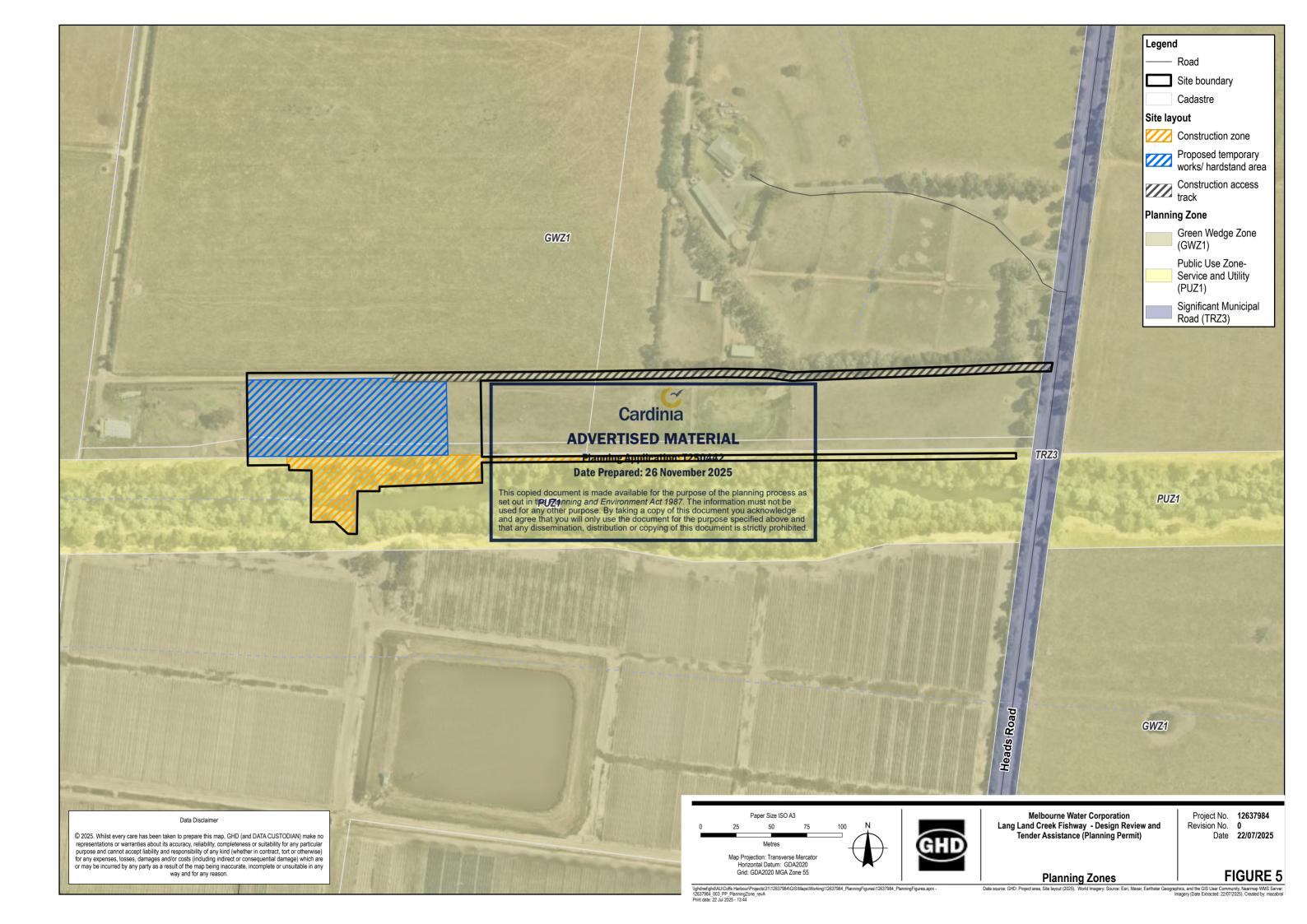
The Project is partially located within the Public Use Zone (PUZ1). Public land within the PUZ1 is for the purpose of Service & Utility.

The purpose of the PUZ is:

- To implement the Municipal Planning Strategy and the Planning Policy Framework
- To recognise public land use for public utility and community services and facilities
- To provide for associated uses that are consistent with the intent of the public land reservation or purpose

A permit is not required for land use or buildings and works within the PUZ1.

As the Project is associated with a Utility installation, the land use is a Section 1 Use (Permit not required), as the land use is consistent with the purpose of the land for *Service & Utility*. Additionally, a permit is also not required for buildings and works as the works are associated with a Section 1 use.



# 3.3.2 Planning overlays

As seen in Figure 6, the following overlays apply to the Site:

#### Clause 42.03 - Significant Landscape Overlay (SLO3)

The purpose of the SLO is to:

- To implement the Municipal Planning Strategy and the Planning Policy Framework
- To identify significant landscapes
- To conserve and enhance the character of significant landscapes

Under clause 42.03-2, a permit is required to construct or carry out works within the SLO unless a schedule to this overlay states that a permit is not required.

Under this clause a permit is required to remove, destroy or lop any vegetation specified in a schedule to this overlay.

#### Significant Landscape Overlay – Schedule 3 – Lang Lang/ Heath Hill (SLO3)

Under the SLO3, the landscape character objectives to be achieved are:

- To protect and enhance the environmental and landscape values of the Lang Lang/Heath Hill area
- To protect, conserve and improve habitat for flora and fauna which contributes to the significance of the landscape and provides fauna habitat and biolinks
- To ensure that any new buildings and works are located and designed to avoid detrimental effects on the key characteristics of the landscape
- To maintain and protect vegetation as an important element within the landscape

The SLO3 does not state that a permit is not required to construct a building or to construct or carry out works associated with a utility installation and therefore a planning permit is required. A planning permit is not required to construct a fence under the SLO3.

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A response to the application require nemerand decision quidelines of the SLO and SLO3 are presented at section 4.1 and section 4.1.1.

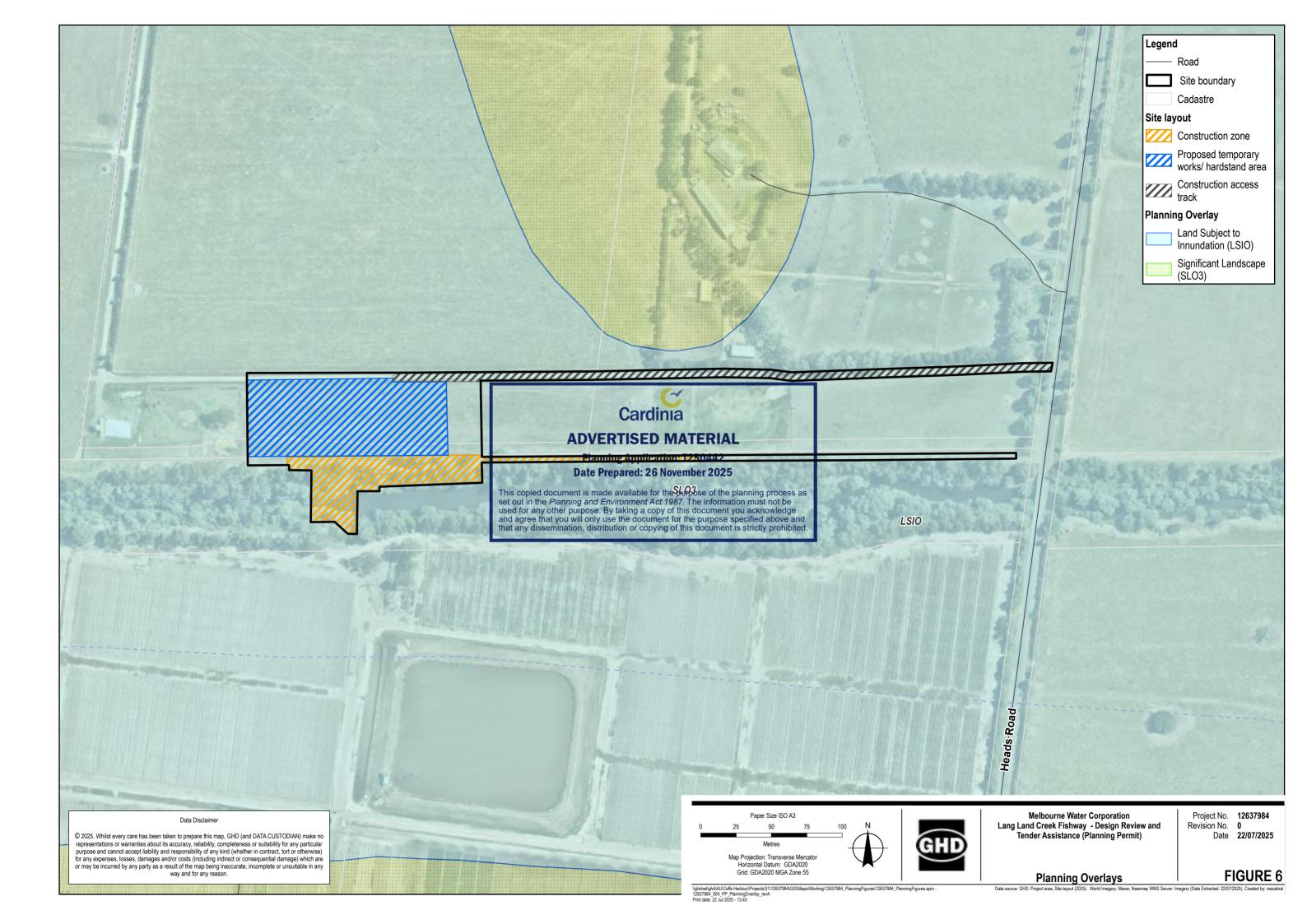
#### Clause 44.04 - Land Subject to Inundation Overlay (LSIO)

The purpose of the LSIO is:

- To implement the Municipal Planning Strategy and the Planning Policy Framework
- To identify flood prone land in a riverine or coastal area affected by the 1 in 100 (1 per cent Annual Exceedance Probability) year flood or any other area determined by the floodplain management authority
- To ensure that development maintains the free passage and temporary storage of floodwaters, minimises flood damage, responds to the flood hazard and local drainage conditions and will not cause any significant rise in flood level or flow velocity
- To minimise the potential flood risk to life, health and safety associated with development
- To reflect a declaration under Division 4 of Part 10 of the Water Act, 1989
- To protect water quality and waterways as natural resources by managing urban stormwater, protecting water supply catchment areas, and managing saline discharges to minimise the risks to the environmental quality of water and groundwater
- To ensure that development maintains or improves river, marine, coastal and wetland health, waterway
  protection and floodplain health

Pursuant to clause 44.04-2 a permit is required to construct a building or to construct or carry out works. Under the Schedule to clause 44.04 a permit is not required to construct or carry out an open-style fence, the proposed fence is made of chain mesh and therefore meets the definition of an open-style fence.

A response to the application requirement and decision guidelines of the LSIO is presented at section 4.2 and section 4.2.1. Pre-development advice from MW has been provided at Attachment 8 and therefore, in accordance with Clause 44.04-7 a referral to MW is not required.



#### Particular provisions 3.3.3

Particular provisions applicable to the Project are identified in Table 6 below.

Table 6 Particular provisions

Clause	Purpose	Permit trigger
Clause 52.17 – Native vegetation	To ensure no net loss to biodiversity as a result of the removal, destruction, or lopping of native vegetation in accordance with the <i>Guidelines for the removal, destruction, or lopping of native vegetation</i> (the Guidelines).	× Water service providers are exempt from requiring a permit to remove less than 0.5 ha of native vegetation in accordance with the <i>Procedure to rely on the utility installations exemption in planning schemes (Water service providers)</i> (the Procedure). Under the Procedure, MW must obtain written consent from the Secretary to DEECA via an endorsement application.

A total of 0.17 ha of native vegetation will be removed to facilitate the proposed works, therefore MW has decided to pursue the exemption pathway identified in Table 6.

This Project will follow the Intermediate Assessment Pathway. To compensate for the loss of 0.17 ha of native vegetation, offsets equating to 0.053 general habitat units with a strategic biodiversity value of 0.3464 will be secured from the Cardinia Shire Council or the Port Phillip and Westernport Catchment Management Authority (CMA) prior to construction commencing.

MW has an 'in house' offset bank and are proposing to source offsets for the Project from their own offset bank. The NVR Report and Vegetation Offset Availability Statement is included at Attachment 4 and Attachment 5.

#### 3.3.4 General provisions

In Victorian planning schemes, general provisions set out the provisions about existing uses, decision guidelines, referrals of applications and other matters. The following general provisions apply to this Project.

3.3.4.1

Clause 63 – Existing uses<sup>Date Prepared: 26 November 2025</sup>

Pursuant to clause 63.01 – extent of use rights and extention use right is established in relation to the use of land under this scheme if any of the following apply:

- The use is a lawful continuation by a utility service provider or any other private body of a use previously carried on by a Minister, government department or public authority, even where the continuation of the use is no longer for a public purpose
- Proof of continuous use for 15 years is established under clause 63.11

Both apply to the Project, therefore MW will be able to rely on this clause to further exempt them from requiring a permit under the PUZ1 and GWZ1.

Under clause 63.05 – section 2 and 3 uses, a use in section 2 or 3 of a zone for which an existing use right is established may continue provided:

No buildings or works are constructed or carried out without a permit. A permit must not be granted unless the buildings or works complies with any other building or works requirements in this scheme.

This provision only concerns the use and does not extend to the buildings and works.

#### Clause 66 - Referral and Notice Provisions 3.3.4.2

Table 7 Referrals and notice provisions

Clause	Type of referral	Trigger
Clause 66.03	Determining referral to Melbourne Water	An application under the overlay within the waterway management district of Melbourne Water Corporation. To construct or carry out works within clause 44.04-7- LSIO. However, given MW has provided their consent in letter dated 17 July 2025, a referral to MW is not required.
Clause 66.06	Notification to the National Trust	An application to construct a building or construct or carry out works (including a sign) within clause 42.03- SLO3

#### 3.3.4.3 Notification

#### Clause 44.04 - Land Subject to Inundation Overlay (LSIO)

The following exemption in Clause 44.04-6 of the LSIO applies for the notice and decision requirements only:

An application under this overlay is exempt from the notice requirements of section 52(1)(a), (b) and (d), the
decision requirements of section 64(1), (2) and (3) and the review rights of section 82(1) of the Act

Therefore, the works required under this provision are exempt from requiring notice.

#### Clause 42.03 - Significant Landscape Overlay (SLO)

As required by clause 66.06 notice to the National Trust is required and therefore the requirements of section 52 (1)(c) of the *Planning and Environment Act 1987* must be adhered to.

Pursuant to the requirements of section 52 (1)(a) and (d) of the *Planning and Environment Act 1987* we are of the opinion that there will be no material detriment caused to any person and therefore notice under this provision is not required based on the following:

- The works are not changing the status quo of the use of the land
- The works are consistent with the existing use of the land and will not introduce a new use
- The works are modest in nature and have been designed to not be detrimental on the landscape
- The works have been designed to be contained within the existing Lang Lang River
- The works are to enhance the environmental values of the river
- The works will improve the habitat for fauna within the river
- The colours and materials are muted in tone and non-reflective
- The extent of vegetation removal is modest and has been minimised to extent possible to facilitate the Project
- A letterbox drop has been undertaken by MW to all adjoining properties informing them of the Project



# 4. Planning assessment

As identified in Section 4.2 of this report, the Project requires a planning permit to:

- Significant Landscape Overlay (SLO3) to construct a building or construct or carry out works and to remove destroy or lop any vegetation
- Land Subject to Inundation Overlay (LSIO) to construct a building or construct or carry out works

An overview of the applicable planning controls and planning approval requirements for the Project is presented in Table 8 below and further outlined in the proceeding sections.

Table 8 Planning assessment findings

Planning control	Planning Approval	Referral/Notification	Permit requirement
Zones			
Clause 35.04 – Green Wedge Zone (GWZ1)	×	×	There are no planning permit triggers for the Project under clause 35.04
Clause 36.01 – Public Use Zone (PUZ1)	×	×	There are no planning permit triggers for the Project under clause 36.01
Overlays			
Clause 42.03 – Significant Landscape Overlay (SLO3)	✓	Notification to the national trust	To construct a building or construct or carry out works and remove, destroy or lop any vegetation
Clause 44.04 – Land Subject to Inundation Overlay (LSIO)	Pla Date This copied document is m set out in the Planning and used for any other purpose	Carthere is a referral requirement  ERT SECTION TO THE TOTAL AND THE TOT	To construct a building or construct or carry out works
Particular Provisions			
Clause 52.17 – Native Vegetation	×	×	There are no planning permit triggers under clause 52.17

# 4.1 Assessment against the SLO

The relevant decision guidelines of the SLO are addressed below.

#### Response to decision guidelines

#### General issues and rural issues

The proposed access route and temporary laydown area are located within the SLO3. The access route will utilise an existing gravel road that runs through the agricultural paddocks to the north of the river. These paddocks are primarily used for grazing for livestock. The temporary laydown area will not compromise the long-term use of the land for future sustainable agricultural activities. The land will be restored to its pre-existing condition once construction of the fish lock has been completed.

The fish lock will be retrofitted into the existing weir structure on the Lang River. The main Project driver is to restore fish passage and migration through the river to support the dispersal of native fish species and maintain genetic fitness. The fish lock and construction methodology have been designed to avoid erosion and detrimental impacts to the water body and to ensure the river's natural capacity to manage flood flow is not compromised.

#### **Environmental issues**

Constructing the fish lock will allow provisions to restore native fish migration through the Lang Lang River. Reestablishing fish passage will improve the biodiversity of the Lang Lang River catchment, improve aquatic habitat, and rebuild fish populations.

The Project will result in the loss of 0.17 ha of native vegetation from the Project footprint to construct the fish lock. It is possible that fauna species that utilise and depend on aquatic habitats may be temporarily impacted through decreased water quality and habitat removal. As such, it is recommended that post treatment works are implemented which monitors the impacts of the fish lock on native aquatic fauna and includes remediation and monitoring of native vegetation post-construction. Remediation works may include replanting and revegetating the banks of the Lang Lang River. The purpose of the native vegetation removal is not to create defendable space to reduce the risk of bushfire to life and property.

MW has undertaken numerous measures where practicable to avoid and minimise impacts to native vegetation where possible. Site-level avoidance measures are not feasible for this Project as it involves upgrading a highly specific piece of water utility equipment. However, a number of steps have been undertaken to avoid impacts in other areas including:

- Accessing the fish lock from a previously disturbed property on the northern side of the waterway which is currently used for agricultural purposes and contains minimal native vegetation
- Utilising an alternative access track through the adjacent farming property which is larger and will avoid the removal of native vegetation in order to facilitate access to the site by heavy machinery

#### Design and siting issues

The fish lock will be constructed using materials that are muted in tone and non-reflective to fit with the natural landscape character and will be retrofitted into the existing weir. Furthermore, due to the presence of dense vegetation and mature trees along the river edges, the weir (and by extension the fish lock) cannot be seen from Heads Road or surrounding viewpoints.

The Project is situated within Heath Hill which had applicated by the National Trust of Australia. The fish lock is not landscape and the surrounding native the property of the purpose period above and the nearby roads.

# 4.1.1 Assessment against the SLO3

A response the application requirements of the SLO3 is presented below. There are no decision guidelines specified under the SLO3.

#### Response to application requirements

The fish lock will be retrofitted into the existing weir which sits within the Lang Lang River, less than 500 m west of the Heads Road bridge. The proposed access track will utilise an existing track within the private property north of the river and the temporary construction laydown area will utilise a small section of land north of the riverbank.

A copy of the development plans have been included as Attachment 2. A map detailing the existing vegetation and proposed vegetation removal is included as Figure 3. Photographs showing the existing vegetation, vegetation to be removed and a description of the vegetation is provided at Section 3.1.1 of the Flora and Fauna Assessment (Attachment 3).

Despite efforts to avoid and minimise impacts where practical, this Project will result in the removal of 0.17 ha of EVC 937 to facilitate the works. The Project will require the removal of some restricted use flora species protected, however a Permit to Take Protected Flora is not required for the incidental take of restricted use protected flora under the FFG Act. No trees are to be removed as part of the Project.

Steps to avoid, minimise, and mitigate impacts to native vegetation have been described in section 2.4.1 of this report and Section 5.2 of the Flora and Fauna Assessment (Attachment 3).

In accordance with the Guidelines and the Procedure, this Project will follow the Intermediate Assessment Pathway and MW will be purchasing offsets equating to 0.053 general habitat units with a strategic biodiversity value of 0.3464 to compensate for the loss of native vegetation. MW has an 'in house' offset bank and are proposing to source offsets for the Project from their own offset bank. The Vegetation Offset Availability Statement is included at Attachment 5.

Further information regarding the ecological values of the Project area can be read within the Flora and Fauna Assessment provided as Attachment 3.

# 4.2 Assessment against the LSIO

A response to the decision guidelines of the LSIO is provided below. There are no application requirements specific to the LSIO.

#### Response to the decision guidelines

The Port Phillip and Westernport CMA forms part of MW, who is the floodplain management authority for this area. The Project is being driven by MW to restore fish passage through the river and improve the health of the river catchment.

The fish lock will be retrofitted into the existing weir structure to reinstate fish migration through the river. The fish lock and construction methodology have been designed to avoid erosion and detrimental impacts to the water body and to ensure the river's natural capacity to manage flood flow is not compromised.

The development is not expected to significantly alter the floodwater, stormwater, or flow velocities of the river. The construction activities may result in temporary impacts to water quality and aquatic habitat, however a CEMP will be developed and implemented prior to construction commencing to minimise impacts and protect aquatic species where possible.

There is no floodplain development plan associated with the Project footprint. A Flooding Report has been prepared for the Project that indicated the fish lock would have a very limited impact on Lang Lang Rivers existing condition and its susceptibility to flooding. A copy of the Flooding Report has been provided at Attachment 7.

# 4.2.1 Assessment against the Schedule to the LSIO

A response to the application requirements outlined under the Schedule to the LSIO is provided below. There are no decision guidelines specified under the Schedule to the LSIO.

#### Response to the application requirements

Four sets of scaled development plans have been included as Attachment 2 which include (as relevant):

- Site boundaries and dimensions
- Relevant ground levels
- Layout of existing and proposed structures and works
- Floor levels of any existing and proposed buildings



# 5. Conclusion

GHD has prepared this report on behalf of MW to support an application for a planning permit for the construction of a fish lock in the Lang Lang River under the SLO3 and LSIO and to remove, destroy, or lop any vegetation under the SLO3.

This fish lock will be retrofitted into the existing weir at Heads Road within the Lang Lang River. The Lang Lang River is a regionally important waterway and supports a number of native flora and fauna species. Since European settlement, it has been subject to significant modification that has compromised the health of fish. The Heads Road weir downstream of Heads Road was subsequently identified as a significant barrier to the passage of native fish.

The installation of the fish lock will allow fish passage upstream of the existing concrete drop structure, supporting fish biodiversity and provide a substantial length of excellent habitat for native fish.

The proposal is considered consistent with the provisions of the Cardinia Planning Scheme by:

- Providing significant environmental benefits to the Lang Lang River by promoting biodiversity, re-establishing fish migration, and improving aquatic habitat
- Relying on existing infrastructure (weir and access track) to minimise environmental impacts and vegetation loss
- Designing the Project to avoid and minimise detrimental impacts to the environment, landscape, soil, water, and amenity where possible
- Avoiding long-term impacts to the agricultural productivity of the landscape

Overall, the proposed development is an appropriate and positive development outcome for the local environment and broader river catchment.

We would appreciate Council's prompt assessment of the application to enable a favourable decision to be issued enabling this critical Project to commence with the preferred contractor and to enable benefit of applicable grants.

If you have any queries or require any additional information, please do not hesitate to contact me via the details below.



Technical Director - Planning



# Attachments



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# Attachment 1

Registered Search Statements

Cardinia

ADVERTISED MATERIAL

Date Prepared: 26 November 2025

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# REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

Page 1 of 1

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#### LAND DESCRIPTION

Lot 1 on Title Plan 828779Y (formerly known as part of Crown Allotment 67 Parish of Yannathan). PARENT TITLE Volume 08032 Folio 469 Created by instrument J238321 18/11/1980

#### REGISTERED PROPRIETOR

Estate Fee Simple Sole Proprietor MELBOURNE WATER CORPORATION of 990 LA TROBE STREET DOCKLANDS VIC 3008 AC154637A 25/06/2003

#### ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

#### DIAGRAM LOCATION

SEE TP828779Y FOR FURTHER DETAILS AND BOUNDARIES

#### ACTIVITY IN THE LAST 125 DAYS

NIL

-----END OF REGISTER SEARCH STATEMENT------

Additional information: (not part of the Register Search Statement)

Street Address: HEADS ROAD LANG LANG VIC 3984

#### ADMINISTRATIVE NOTICES

NIL

eCT Control 13360T MELBOURNE WATER CORPORATION Effective from 08/12/2015

DOCUMENT END

Cardinia

ADVERTISED MATERIAL
Planning Application: T250442
Date Prepared: 26 November 2025

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Title 9409/317

Page 1 of 1

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#### REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

Page 1 of 1

VOLUME 09500 FOLIO 057

Security no : 124125897031E Produced 03/07/2025 11:37 AM

#### LAND DESCRIPTION

Lot 1 on Title Plan 084823S (formerly known as part of Crown Allotment 67 Parish of Yannathan). PARENT TITLE Volume 08032 Folio 468 Created by instrument J857746 17/03/1982

#### REGISTERED PROPRIETOR

#### ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by SectionCardingransfer of Land Act 1958 or Section 24 Subdivision Act 1988 and anXDVERTISED WATERNAL ances shown or entered on the plan set out under DIAGRAM LOCA Planning Application: 7250442 Date Prepared: 26 November 2025

and Act 1958 or Section

#### DIAGRAM LOCATION

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SEE TP084823S FOR FURTHER DETAILS AND BOUNDARIES

#### ACTIVITY IN THE LAST 125 DAYS

NIL

-----END OF REGISTER SEARCH STATEMENT-----

Additional information: (not part of the Register Search Statement)

Street Address: 75 HEADS ROAD LANG LANG VIC 3984

#### ADMINISTRATIVE NOTICES

NIL

DOCUMENT END

Title 9500/057 Page 1 of 1

**EDITION 1** TP 84823S TITLE PLAN Notations Location of Land WATERWAY NOTATION: LAND IN THIS PLAN MAY ABUT CROWN LAND THAT MAY BE SUBJECT TO A CROWN Parish: YANNATHAN Township: LICENCE TO USE Section Crows Allotment 67 (PT) Crown Portion Last Plan Reference: VOL 9500 PDL 957 Denved From: ANY REFERENCE TO MAP IN THE TEXT MEANS THE DIAGRAM SHOWN ON THIS TITLE PLAN Dugth Limitation: NIL. Description of Land / Easement Information THIS PLAN HAS BEEN PREPARED FOR THE LAND REDISTRY, LAND FACTORY VICTORIA, FOR TITLE DIAGRAM PURPOSES AS PART OF THE LAND TITLES AUTOMATION PROJECT COMPILED: 27/07/1999 VERIFIED: CILAM Cardinia ADVERTISED MATERIAL Planning Application: T250442 Date Prepared: 26 November 2025 29.86 ha TABLE PARCEL IDENTIFIERS WARNING: Whore multiple percels are referred to or shown on this Title Plan this does not imply separately disposoble percels under Section 8A of the Sale of Land Act 1962 PARCEL 1 = CA 67 (PT) LENGTHS ARE IN METRES Method = 0.3049 is Feet Sheet 1 of 1 sheets Matrice = 0.201106 e Links



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#### REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

Page 1 of 1

VOLUME 09500 POLIO 058

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#### LAND DESCRIPTION

Lot 1 on Title Plan 808002F. PARENT TITLE Volume 08032 Folio 469 Created by instrument J857746 17/03/1982

REGISTERED PROPRIETOR

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the

plan set out under DIAGRAM LOCATION below.

Cardinia

DIAGRAM LOCATION

**ADVERTISED MATERIAL** 

Planning Application: T250442 Date Prepared: 26 November 2025

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#### ACTIVITY IN THE LAST 125 DAYS

NIL

-----END OF REGISTER SHARCH STATEMENT------

Additional information: (not part of the Register Search Statement)

Street Address: 75A HEADS ROAD LANG LANG VIC 3984

#### ADMINISTRATIVE NOTICES

NIL

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#### CROWN FOLIO STATEMENT

Page 1 of 1

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CROWN FOLIO

#### LAND DESCRIPTION

Crown Allotment 2003 Parish of Yannathas. PARENT TITLE Volume 11786 Folio 953 Created by instrument MI236179E 06/08/2016

#### CROWN LAND ADMINISTRATOR

SECRETARY TO THE DEPARTMENT OF ENVIRONMENT, LAND, WATER AND PLANNING OF 8 NICHOLSON STREET EAST MELBOURNE VIC 3002 MI236179E 06/08/2016

#### STATUS, ENCUMBRANCES AND NOTICES

RESERVATION MI236181T 06/08/2016 PERMANENT PUBLIC PURPOSES

WATER PRONTAGE LICENCE as to part MI309827Q 06/08/2016

#### DIAGRAM LOCATION

SEE CD091008D FOR FURTHER DETAILS AND BOUNDARIES

#### ACTIVITY IN THE LAST 125 DAYS

NIL

-----END OF CROWN FOLIO STATEMENT-----

Additional information: (not part of the Crown Folio Statement)

Street Address: HEADS ROAD LANG LANG VIC 3984

DOCUMENT END



Planning Application: T250442
Date Prepared: 26 November 2025

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Title 11785/942 Page 1 of 1

CROWN DIAGRAM	CD091008D	
Location of Land Perish: YANNATHAN Allotment 3003	This plan has been created to sesist in locating a Crown land percel Warning: No warrenty is given as to the accuracy or completeness of this plan Any derived chronosions are approximate	
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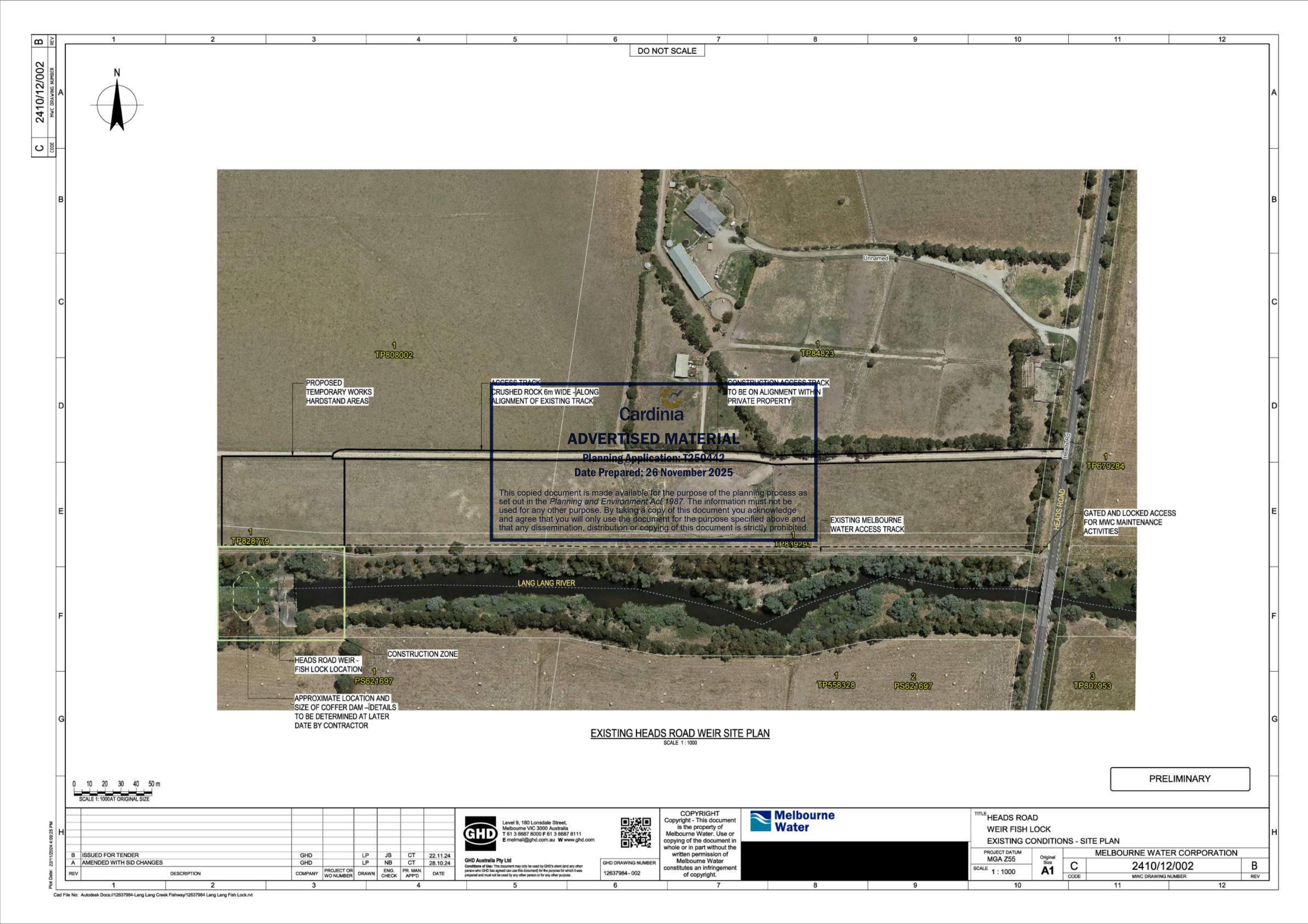
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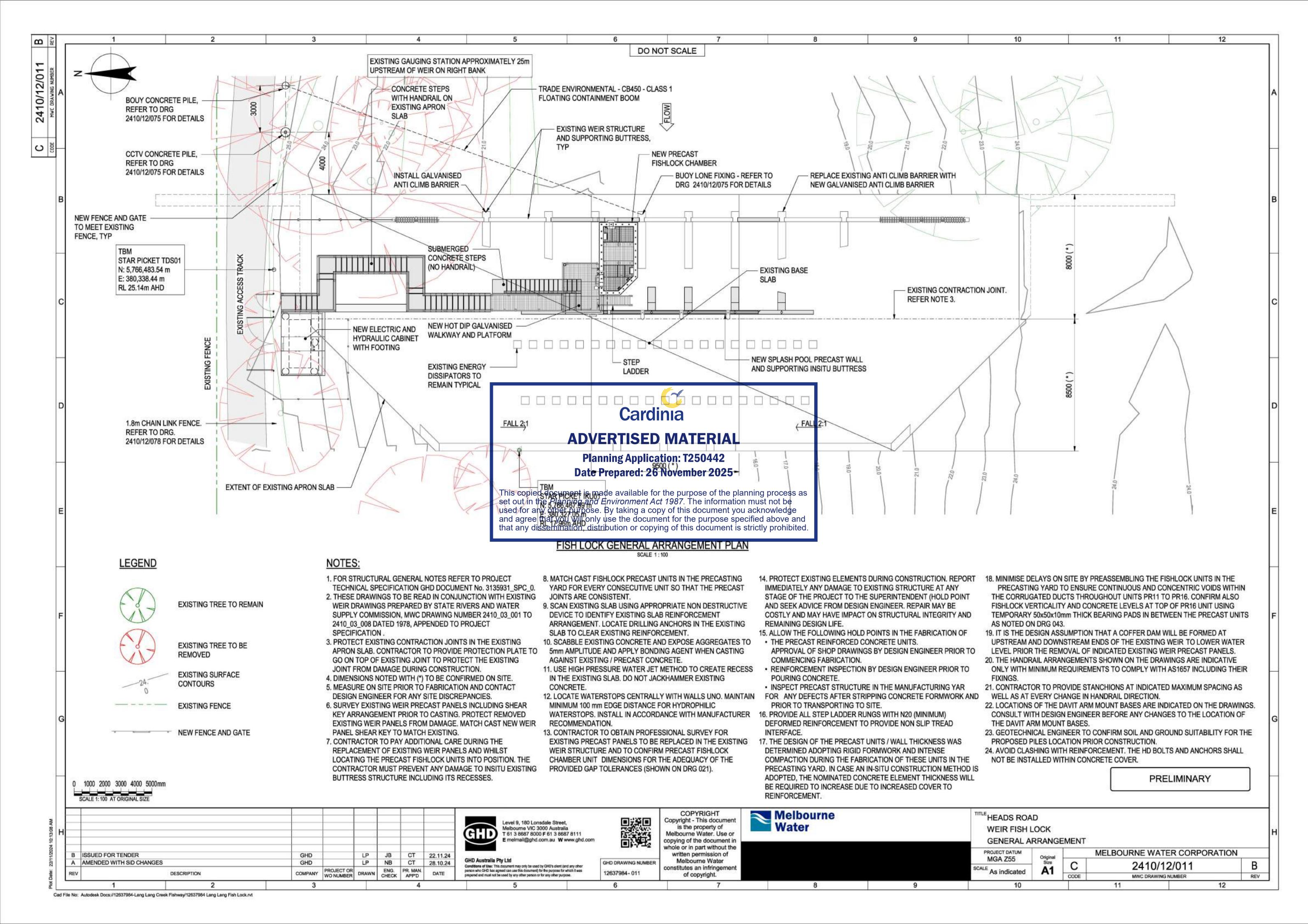
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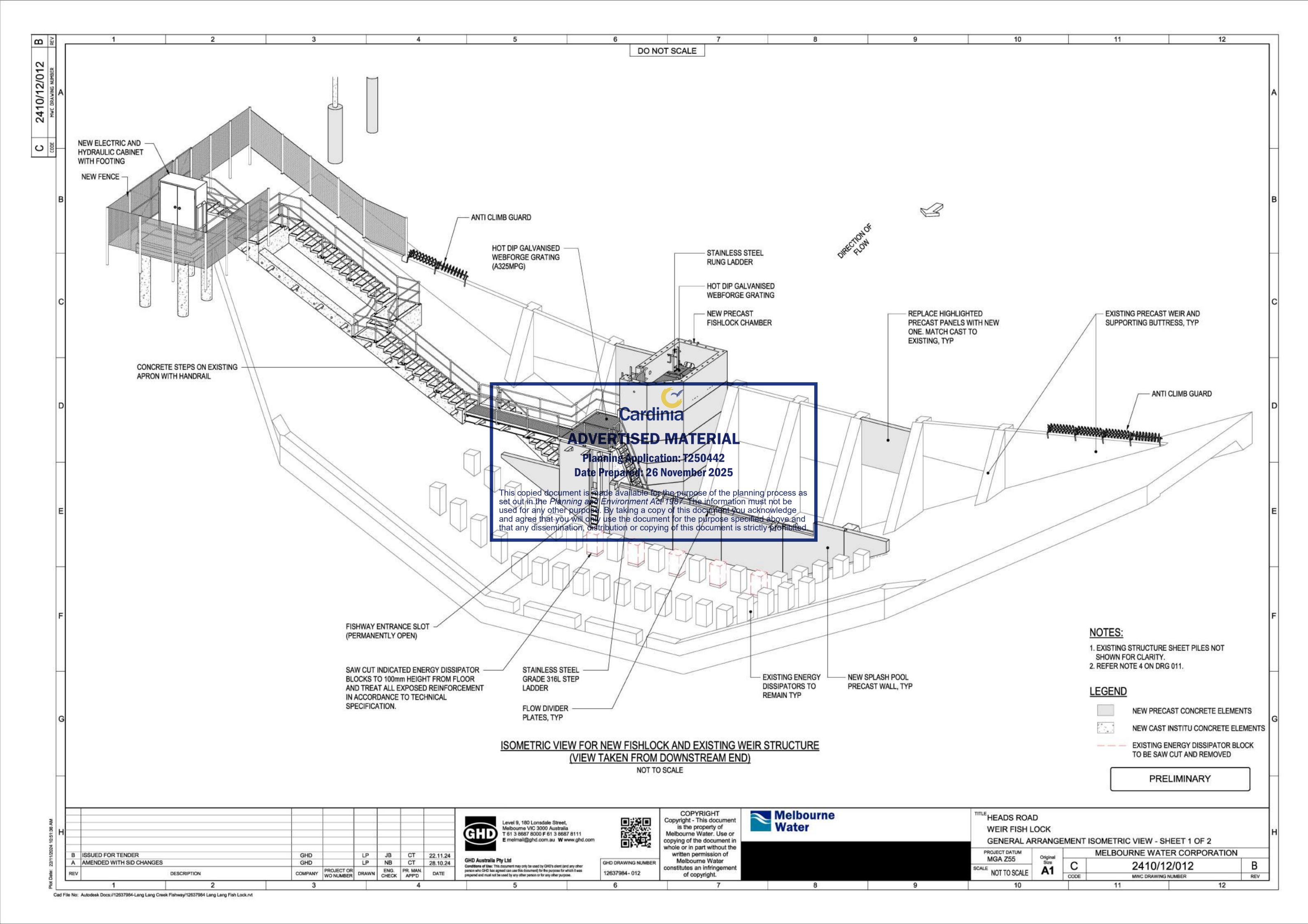
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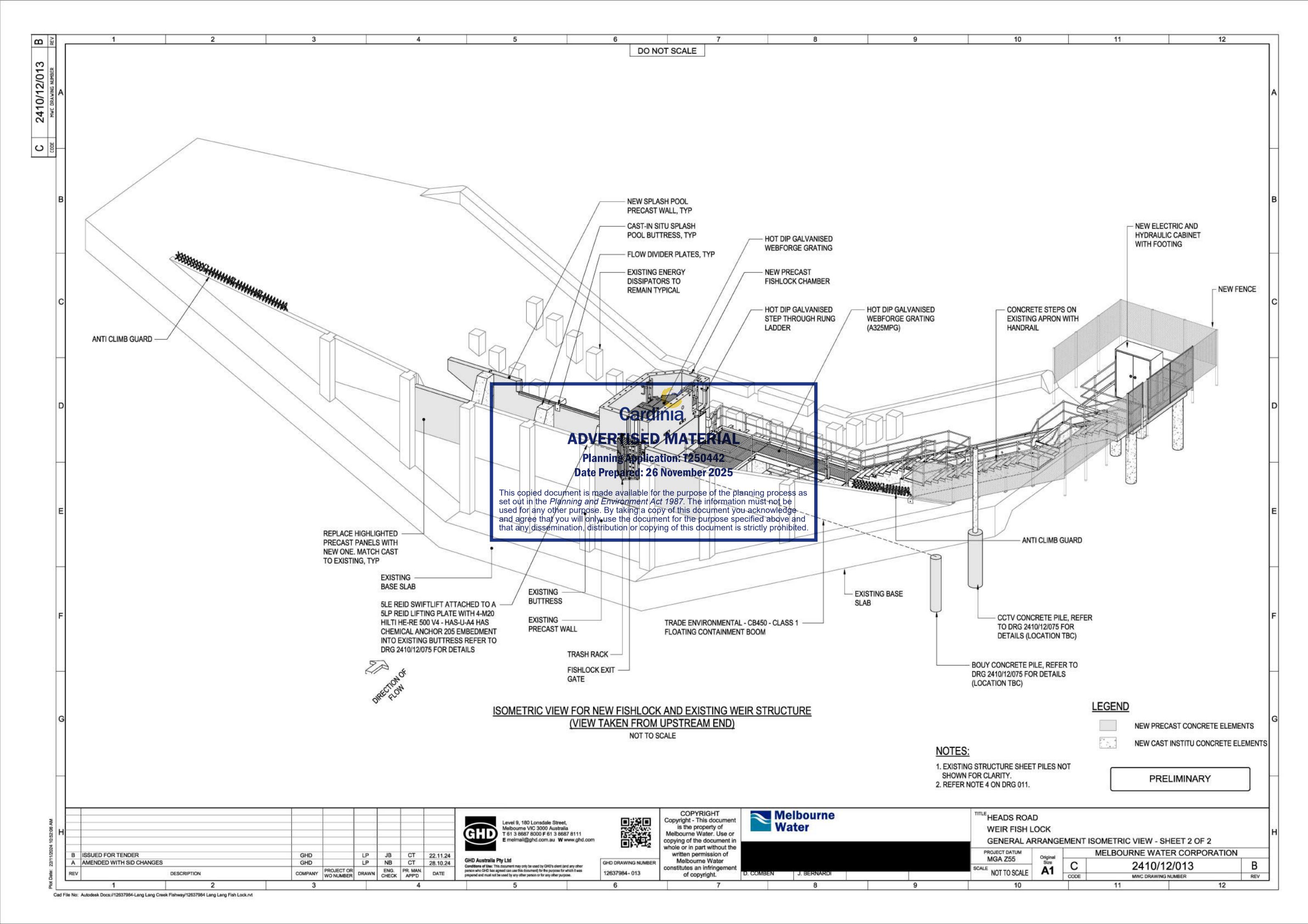
Planning Application: T250442 Date Prepared: 26 November 2025

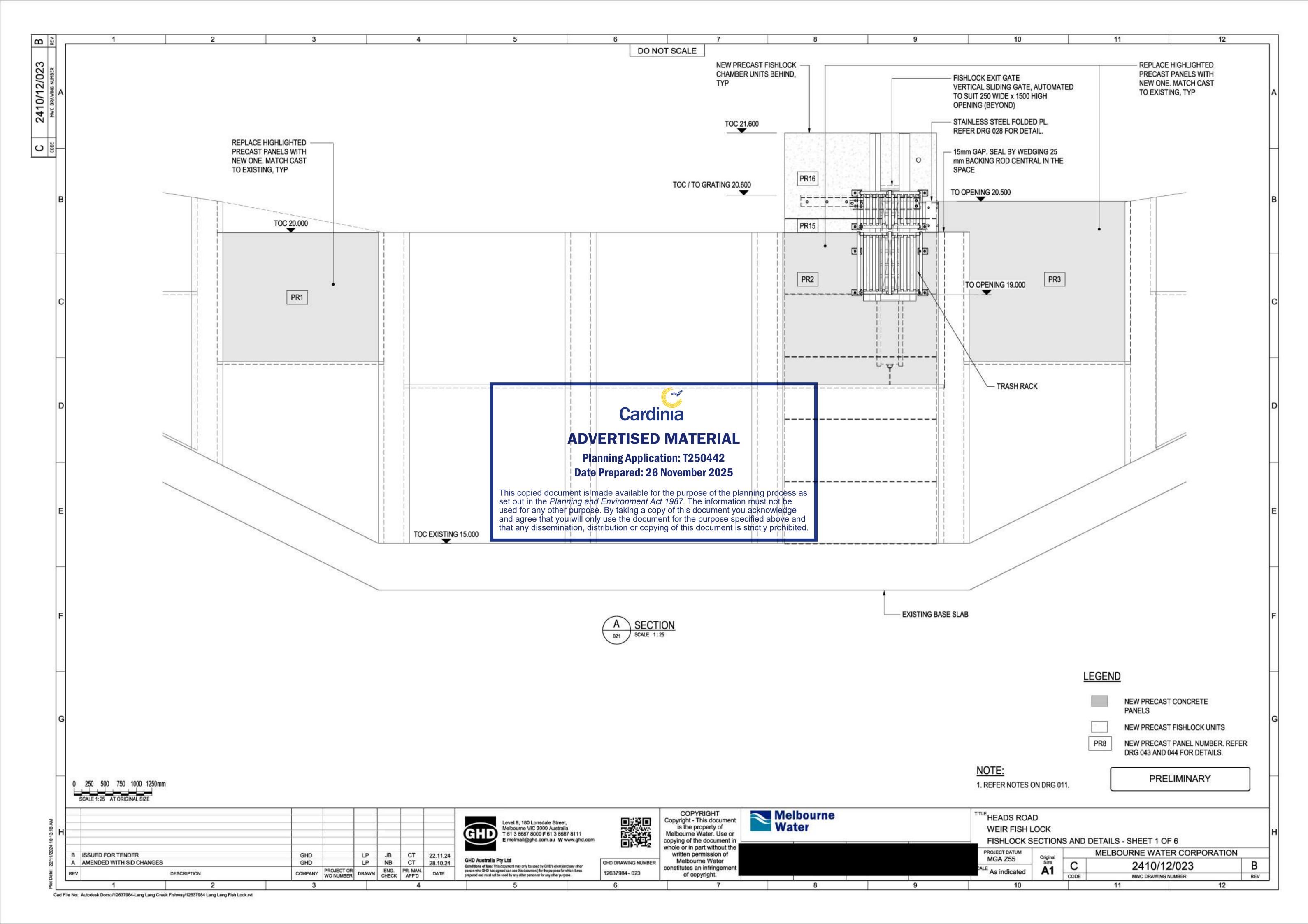
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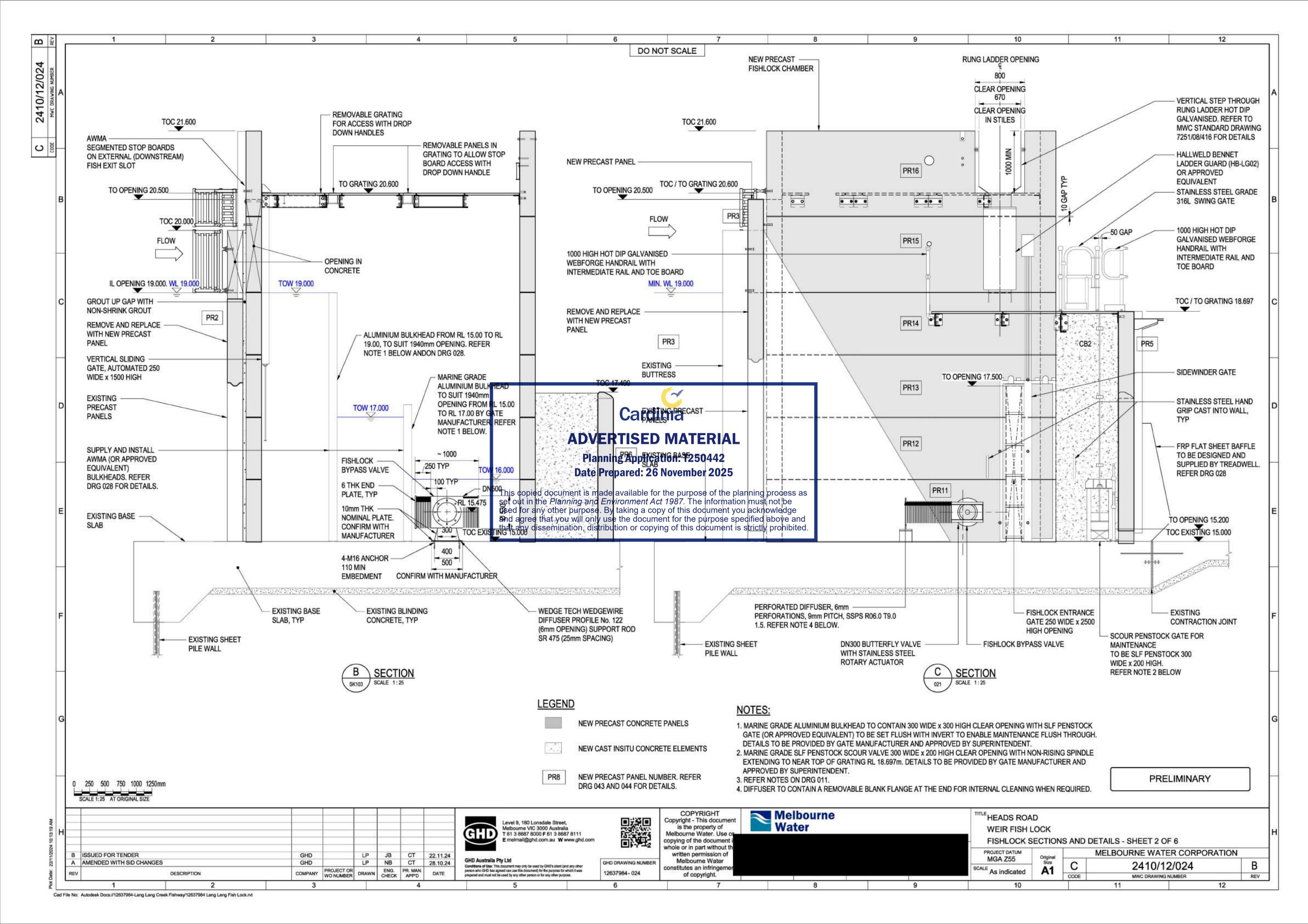


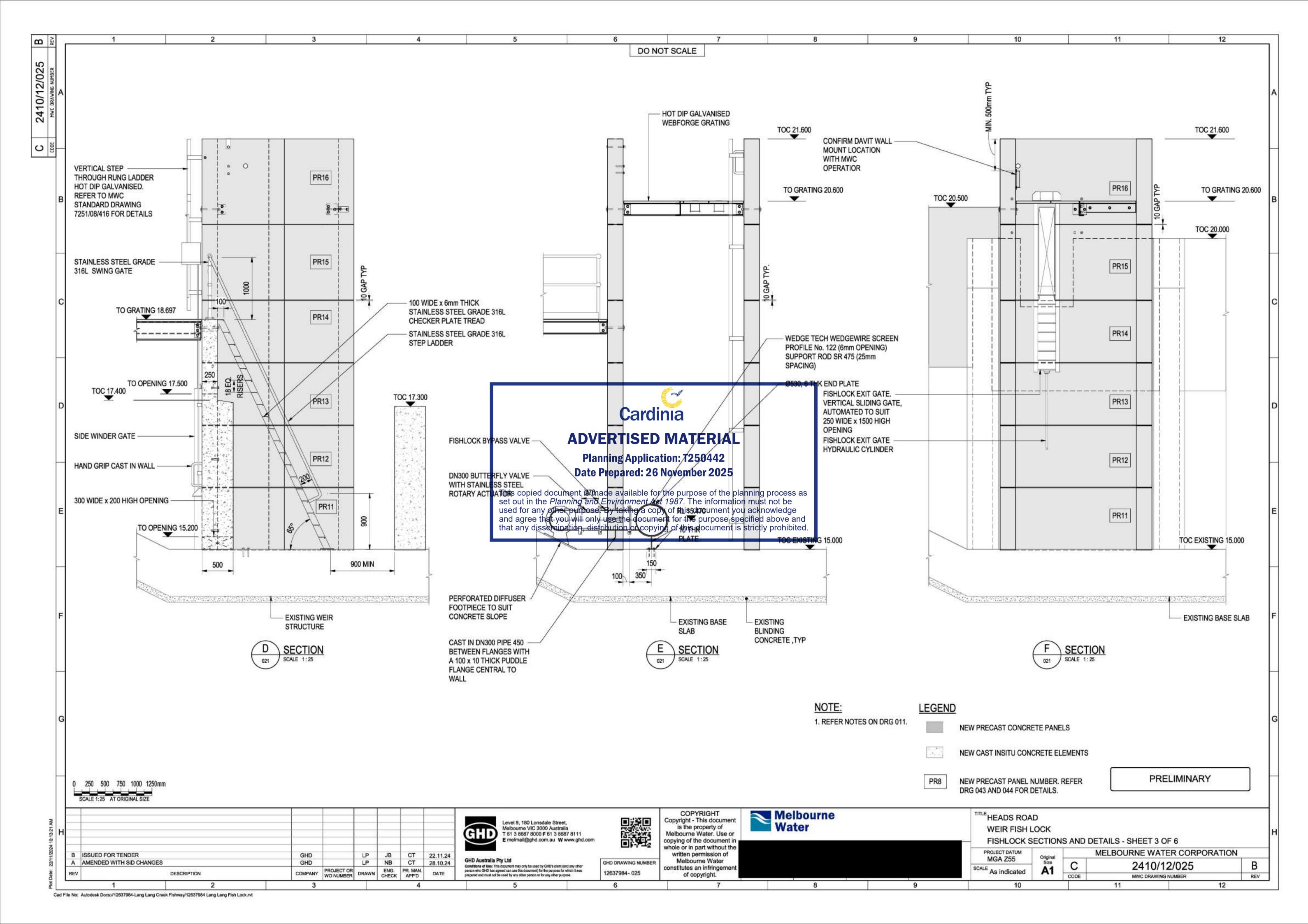


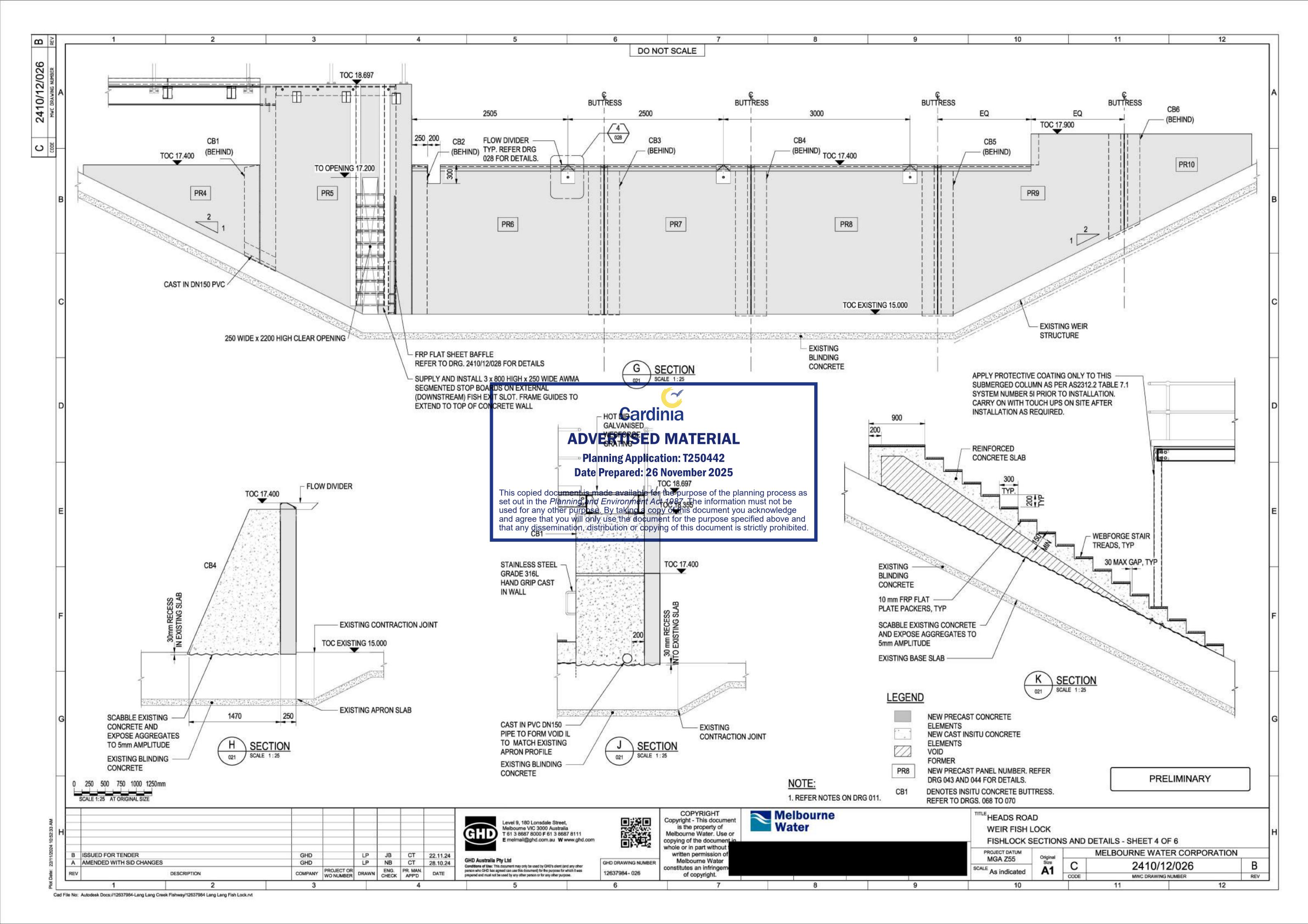


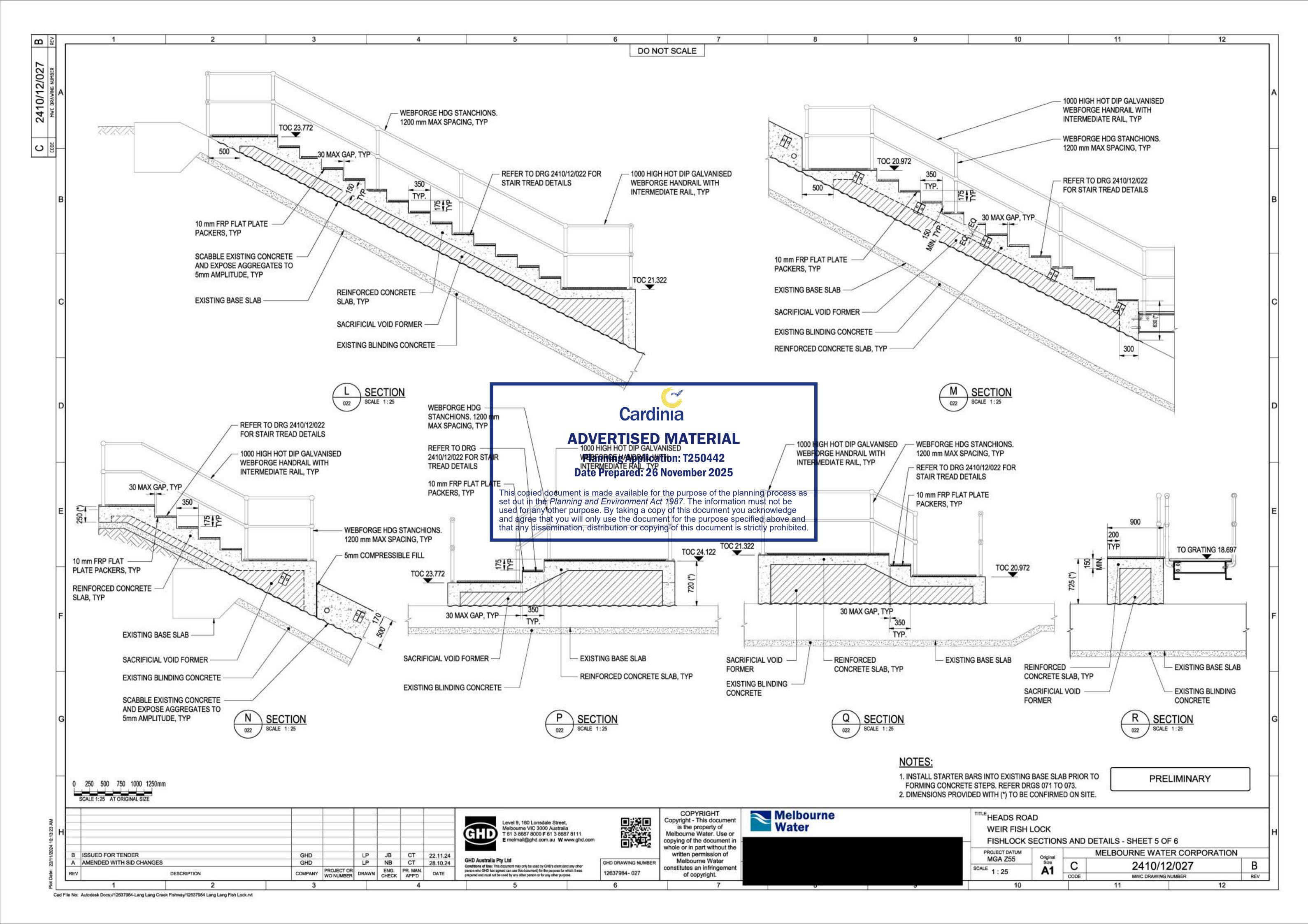


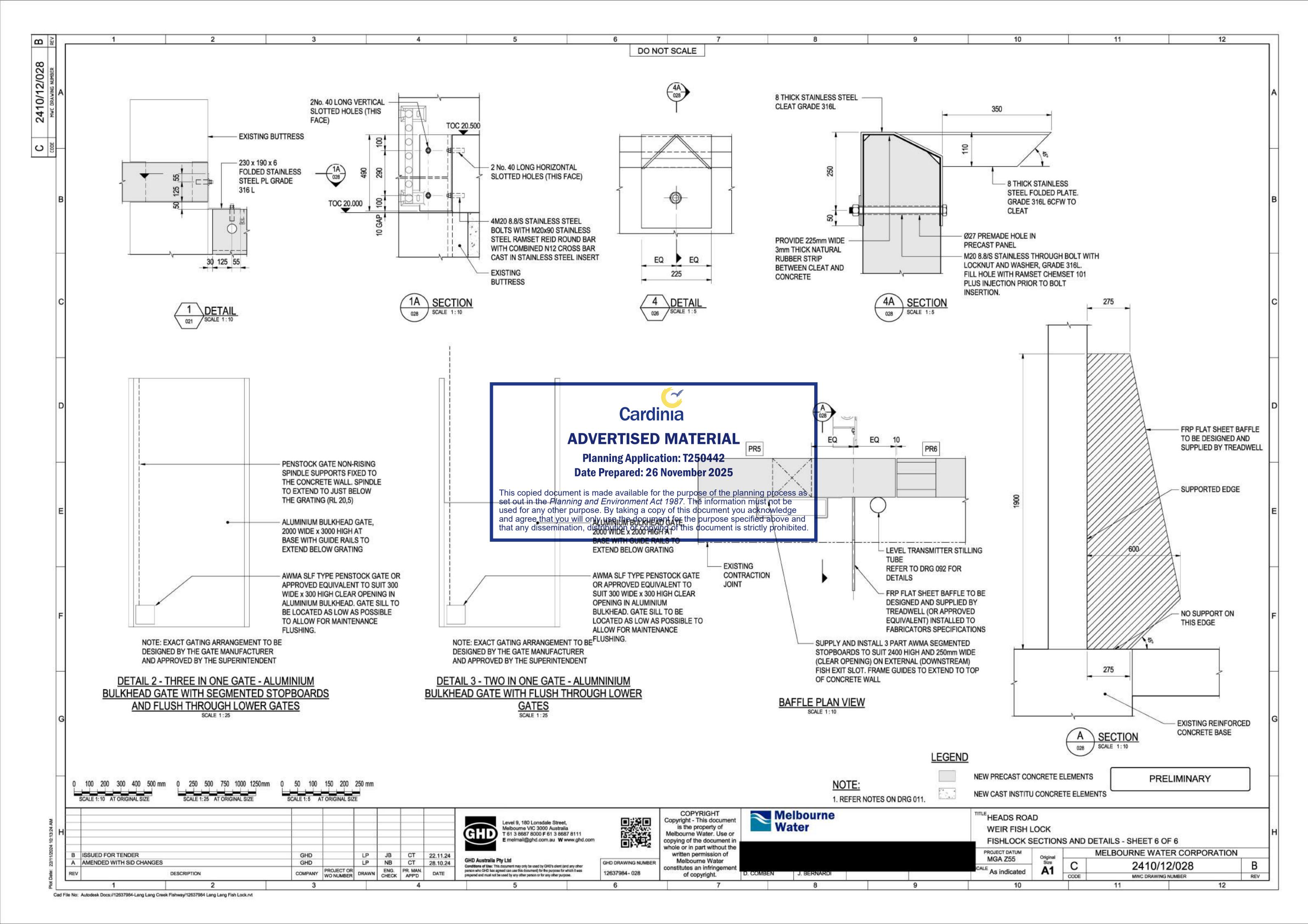












180 Lonsdale Street, Level 9 Melbourne, Victoria 3000 Australia ahd.com



Your ref: T50442 PA Our ref: 12637984

24 September 2025



#### ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025

Principal Statutory Planner Cardinia Shire Council PO Box 7 Pakenham VIC 3810

Response to Request for Further Information (RFI) regarding planning permit application T50442 PA to facilitate the Lang Lang Fishway Project (the Project) at Heads Road, Lang Lang, VIC 3984.

Dear

Thank you for your letter dated 2 September 2025 requesting further information regarding permit. application number T50442PA, submitted on behalf of Melbourne Water (MW) pursuant to Section 54 of the Planning and Environment Act 1987.

GHD Pty Ltd (GHD) continues to act on behalf of the applicant, MW. It is understood that Cardinia Shire Council (Council) requires clarification on items identified in the RFI. We look forward to engaging closely with Council to satisfy the requests for further information as soon as possible.

The following attachments are included in this letter:

- Attachment 1 Updated Site Plan
- Attachment 2 DEECA Endorsement to rely on Utility Installations Exemption

#### Response to the RFI

A response to each of the items raised within the RFI has been provided below.

#### 1. Site Plan

#### Council request

Council has requested the following information: Updated development plans to include specifications of the temporary hardstand area and details of the duration that the hardstand will be erected on-site.

#### GHD response

An updated development plan, which illustrates the specifications of the temporary hardstand area and details of the duration that the hardstand area will be erected on site is provided at Attachment 1.

#### 2. Clause 52.17 - Native Vegetation

#### Council request

Council has requested the following information: Written consent from the Secretary of DEECA granting endorsement for the project to rely on an exemption under Clause 52.17-7.

GHD response

DEECA has provided endorsement to rely on the exemption for Utility Installations, as per Clause 52.17-7 of the Planning Scheme. Written approval to rely on this exemption is provided at Attachment 2.

#### Response to the Preliminary Assessment Comments

A response to the Preliminary Assessment Comments is provided below.

#### Clause 52.17

#### Council comments

Council has commented the following: In the absence of written consent from DEECA referenced at further information item 2, an application must be made for the removal of Native Vegetation pursuant Clause 52.17-2 and an assessment provided against the Guidelines for Removal, Destruction and Lopping of Native Vegetation. In order for Council to consider Native Vegetation removal, the application must be updated under Section 50 of the Planning and Environment Act 1987.

It is recommended that the application be revised to address these comments, and/or include a written response to them. Revising the application at this stage is likely to result in the application process being more efficient and may mitigate future concerns from relevant parties.

If the application is not revised accordingly, it will be processed in its current form and may be subject to future changes through conditions of any planning permit, or may be recommended for refusal.

#### GHD response

As discussed under RFI item 2 Clause 52.17 - Native Vegetation, the Project has obtained written approval from DEECA to rely on this exemption. This is provided at Attachment 2.

As we have obtained endorsement from DEECA to use this exemption, the planning permit application does not require updates to incorporate an assessment against Clause 52.17.

#### Conclusion

We trust this response will satisfy all requests for further information and look forward to receiving your endorsement of the utility exemption. Should you have any further queries in relation to the matters raised in this letter, please do not hesitate to contact me via the details provided below.



Attachments:

Attachment 1: Updated Site Plan

Attachment 2: DEECA Endorsement to rely on Utility Installations Exemption



ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025

8 Nicholson Street East Melbourne, Victoria 3001 Email: pe.assessment@deeca.vic.gov.au deeca.vic.gov.au

Ref: CMS 00010140

Senior Urban Planner Planning & Environment Approvals GHD Level 8, 180 Lonsdale Street MELBOURNE VIC 3000

# CLAUSE 52.17 NATIVE VEGETATION REMOVAL EXEMPTION-ENDORSEMENT TO RELY ON THE UTILITY EXEMPTION – LANG LANG FISHWAY PROJECT, HEADS ROAD, LANG LANG

Thank you for your request for endorsement on 24/7/2025 to use the Procedure to rely on the utility installations exemption in planning schemes - Water service providers (DELWP 2020) related to Melbourne Water's Lang Lang Fishway Project.

The works requiring the native vegetation removal identified in the Department of Energy, Environment and Climate Action (DEECA) Native Vegetation Removal Report (NVRR) ID# 311\_20250704\_DR9, meet the requirements of the utility exemption procedure. The native vegetation removal must comply with the area mapped in NVRR ID:311\_20250764 DR9 and the amounts specified below. Additional consent is required to remove or impact and VERTISE MAJERIAN not included in this endorsement.

	Date Pre	pared: 26 November 2025			
Assessment Pathway	Interme discovered document is made	available for the purpose of the planning process as vironment Act 1987. The information must not be			
Location Category	Location by the composition of the property of the document for the property of the document for the property of the document for the property of the document is strictly prohibited.  The native vegetation extent map indicates that this area is typically characterised as supporting native vegetation. Additionally, it is modelled as encompassing an endangered Ecological Vegetation Class, sensitive wetland or sensitive coastal area. The removal of less than 0.5 hectares or native vegetation in this area will not require a Species Offset.				
Total extent of native vegetation removal including past and	0.017 hectares	Extent of past removal	0 hectares 0.017 hectares		
proposed removal		removal –Patches Extent of proposed removal – Scattered Trees (ha)	0 hectares		
Large Trees	0	Large Patch Trees	0		
proposed to be removed		Large Scattered Trees	0		
Small Scattered Trees	0		- Th		

To ensure no net loss to Victoria's biodiversity, please provide DEECA with evidence of a secured native vegetation offset in accordance with the table below.

Principal Control of the Control of	The state of the s
Offset type	General habitat units (GHU)



Offset amount required	0.053 GHU
Vicinity of offset	Located within the Melbourne Water Catchment Management Authority boundary or Cardinia Shire municipal district
Minimum Strategic Biodiversity value of offset	0.3464
Large trees required	0

Evidence of the secured offsets (allocated credit extracts or executed first party offset agreements) for all endorsed projects for the financial year must be provided to the relevant DEECA region annually by 31 August. Accordingly, please email the evidence to <a href="mailto:ppr.nep@deeca.vic.gov.au">ppr.nep@deeca.vic.gov.au</a> before 31 August 2026. The secured offsets must be secured in accordance with the *Guidelines for the removal, destruction, or lopping of native vegetation* (DELWP 2017).

#### **Comments**

DEECA is satisfied that Melbourne Water have avoided and minimised native vegetation removal as per the *utility* exemption procedure and that all requirements of the procedure have been met.

Mitigations are required to ensure adverse impacts to retained native vegetation and threatened species and habitat are avoided and minimised. This includes the need to ensure retained native vegetation is protected during construction, instream works are timed to avoid key lifecycle periods for Platypus, Dwarf Galaxias and Australian Grayling, and habitative Southern Brown Bandicoot is reinstated in all temporary disturbance areas along the riparterported or following construction completion.

#### **Endorsement Conditions**

Planning Application: T250442
Date Prepared: 26 November 2025
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- 1. Before works start, a site-specific Genstruction Environment Management Plan (CEMP) must be prepared to the satisfaction of DEECA. This plan should incorporate the measures to avoid and minimise impacts specified in Section 5 of the GHD (2025) Lang Lang Fishway Flora and Fauna Assessment, and must specify measures to:
  - a) Protect all native vegetation to be retained from any impacts resulting from construction activities
  - b) Prevent impacts on aquatic ecosystems and threatened species within Lang Lang River due to erosion, sedimentation, pollution, and changes to water flows
  - Use a qualified ecologist to conduct pre-clearance surveys to ensure any wildlife identified, including threatened species, is relocated to an appropriate location away from the construction footprint
  - d) Control the spread of noxious weeds
  - e) Reinstate native vegetation and habitat in all temporary disturbance areas
- 2. Before works start, all persons undertaking the vegetation removal or works onsite must be advised of all relevant conditions.

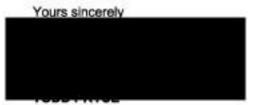
#### **Endorsement Notes**

1. The granting of this endorsement does not exempt the holder of a permit from the requirements of other Commonwealth and State legislation or policy.



 Landowner Consent will be required from DEECA's regional Land and Built Environment team. To apply for Landowner Consent or for further information, please contact enviroplan.portphillip@deeca.vic.gov.au.

If you have any further questions in relation to this matter, I can be contacted directly at pe.assessment@deeca.vic.gov.au.



Senior Planning Officer, Planning Services (Central-East)

24/09/2025



#### ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025

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# Lang Lang Fishway

# Flora and Fauna Assessment

Melbourne Water Corporation
07 November 2025





#### ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025

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Project name  Document title  Project number		Lang Lang River Fishway - Design Review and Tender Assistance						
		Lang Lang Fishway   Flora and Fauna Assessment						
		12637984						
File nam	0	12637984_R	EP_Lang Lang I	Fishway_Flora Fa	una Assessment	docx		
Status Revision		Author	Periewer Reviewer		Approved for issue			
Code			Name	Signature	Namo	Signature	Date	
S4	0						12/07/2024	
S4	1						28/08/2024	
S4	2						30/06/2025	
S4	3						07/07/2025	
84	4						23/07/2025	
S4	5						7/11/25	

#### GHD Pty Ltd | ABN 39 008 488 373

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T +61 3 8687 8000 | F +61 3 8732 7046 | E melmail@ghd.com | ghd.com

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# **Executive summary**

Melbourne Water Corporation (Melbourne Water) is proposing to retrofit the Lang Lang Weir with a Fish Lock, to allow fish passage along Lang River, upstream of the weir.

GHD was originally engaged by Melbourne Water in 2018 to create the detailed design plans of the Fish Lock, however it was not able to be built at the time. In 2024, GHD was again engaged to update the design plans to meet current requirements and standards.

The purpose of this report is to update Melbourne Water on the current ecological values and potential impacts associated with the project, as well as providing advice to avoid and minimise impacts on native vegetation.

#### Summary of findings

- The study site is comprised of remnant patches of Swampy Woodland (EVC 937) of varying quality. 0.17 hectares of native vegetation across one habitat zone is proposed to be impacted by the works. This is comprised of 0.123 hectares of impacted native vegetation and 0.047 hectares of potentially impacted native vegetation.
- The retention of potentially impacted native vegetation will be determined by the successful contractor post-award. Therefore, both impacted and potentially impacted native vegetation have been considered in the Native Vegetation Removal Report and offset calculations. If potentially impacted native vegetation can be retained, this should be reconciled post-works by an accredited native vegetation assessor.
- No communities listed under the EPBC Act or FFG Act were identified within the study site.
- No flora species listed as threatened under the EPBC Act or the FFG Act were observed during the site assessment.
- Three protected flora species were reco**rded within wherestu**dy site, one within the proposed footprint. These three species are listed as restricted use. The proposed flora listed as restricted use (RU) as long as reasonable care is taken to not impact the taxon.
- Five weed species listed under the Call Act were recorded within the study site and will require management during and after construction.
- Five fauna species listed as threatened under the EPBC Act may occur within or near the study site.
- Four fauna species listed as migratory under the EPBC Act are considered likely to be rare visitors to the study site.
- One FFG Act-listed fauna species, Platypus (*Ornithorhynchus anatinus*), is known to occur within the study site.
- Four additional FFG Act-listed fauna species are considered as possibly occurring within or near the study site.

The following next steps are recommended for this project:

- Consider the two application pathways outlined in this report for the removal of native vegetation.
   Melbourne Water may either:
  - Seek endorsement for the removal of 0.17 hectares of native vegetation from DEECA under the Conservation Works Exemption; **OR**
  - Seek endorsement for the removal of 0.17 hectares of native vegetation from DEECA under the
    Procedure to rely on the utility installation exemption in planning schemes Water service Providers
    (DELWP 2019). A total of 0.053 general habitat units (GHU) are triggered for this project with a minimum
    strategic biodiversity value score of 0.3464. These offsets must be sourced from within Port Phillip and
    Westernport (Melbourne Water) CMA or Cardinia Shire Council.
- Confirmation from Port Phillip and Western Port CMA of the requirement for a Works on Waterway (WoW) permit.

- Prior to the works commencing, it is recommended that a Construction Environmental Management Plan (CEMP) is developed and implemented, by the successful contractor, for the project to document measures required to avoid and minimise impacts on ecological values.
- Include revegetation plans within the CEMP to restore vegetation and Southern Brown Bandicoot habitat along the northern bank of Lang Lang River.



Planning Application: T250442 Date Prepared: 26 November 2025

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# Appendix G Evaluation of Fish Lock Construction and Operation with Respect to Significant Impact Criteria for Australian Grayling and Dwarf Galaxias



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## 1. Introduction

## 1.1 Background

Melbourne Water Corporation (Melbourne Water) is proposing to retrofit the Lang Lang Weir with a Fish Lock, to allow fish passage along Lang River upstream of the weir.

GHD was originally engaged by Melbourne Water in 2018 to create the detailed design plans of the Fish Lock, although it was not built at the time. In 2024, GHD was again engaged to update the design plans to meet current requirements and standards.

## 1.2 Purpose

The purpose of this report is to provide Melbourne Water with an updated understanding of the ecological values and potential impacts associated with the project, as well as providing advice to avoid and minimise impacts on native vegetation.

## 1.3 Scope

The scope of the ecological assessment involved a desktop assessment and a site assessment.

The desktop assessment involved reviewing the following databases and spatial resources:

- The Victorian Biodiversity Atlas (VBA) for flora and fauna recorded within a 10 km buffer of the site (VBA, curated by Department of Energy, Environment and Climate Action, DEECA)
- The Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW)

  Protected Matters Search Tool (PMST), which products the occurrence of Matters of National Environmental Significance (10 km buffer of the site)

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  Planning Application: T250442
- NatureKit Maps which provide modelled mapping of extant and pre-1750 Ecological Vegetation Classes (EVCs) (maintained by DEECA)

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  This copied document is made available for the purpose of the planning process as set (EVCs) (maintained by DEECA)
- NVIM Maps which provide Location mapping, the Current Wetland Layer, the Strategic Biodiversity Score and the Native Vegetation Condition Score for the project area (maintained by DEECA)
- Aerial imagery of the study area and study site to identify ecological values and land use history

The site assessment was undertaken to:

- Map the extent and condition of native vegetation present
- Undertake a Vegetation Quality Assessment (VQA) using the Habitat-hectare (Habha) assessment method
- Map and measure all Patch Trees that meet the benchmark for Large Trees
- Map and measure all native Scattered Trees and assign size class (small or large)
- Identify the presence of significant weed species including those declared under relevant State and national legislation, policy or strategy, e.g. Catchment and Land Protection Act 1994 (CALP Act) and National Weeds Strategy
- Record the location of any threatened or protected species or communities
- Collect an inventory of incidental observations of native and non-native flora and fauna species encountered during the field assessment
- Collect general site data and photographs

## 1.4 Study site and study area

The **study site** refers to the area that would be impacted by the proposed works (see Section 5.1) and includes the area immediately surrounding and within the existing Lang Weir (Figure 1) superstructure, and river banks.

The study site is located within Lang Lang River, approximately 76 kilometres south-east of Melbourne CBD.

The study site is located on the land of the Bunurong people of the Kulin Nation, as well as within the Cardinia Shire Council area, Port Phillip and Westernport Catchment Management Authority (PPWCMA) area and the Gippsland Plain Bioregion.

The term **study area** refers to a broader region surrounding the study site which includes areas that are outside the proposed impact area. The study area for this assessment includes all land and waterways within 10 km of the study site. This description covers a much broader area than the area identified for assessment, and the additional information captured has been used to provide context to assess the significance of ecological features identified within the study site (for example, whether they are part of a larger area, or whether there could be potential impacts on ecological features outside the study site). The broader study area was only assessed at a desktop level.







Ged. GDA2020 MGA Zone 35



Melbourne Water Corporation Lang Lang Creek Fishway -Design Review and Tender Assistance

Project No. 12637984 Revision No. 0

Date 7/11/2025

Study site

FIGURE 1

## 1.5 Limitations

This report has been prepared by GHD Pty Ltd (GHD) for Melbourne Water Corporation (Melbourne Water) and may only be used and relied on by Melbourne Water for the purpose agreed between GHD and Melbourne Water as set out in Section 1.3 of this report.

GHD otherwise disclaims responsibility to any person other than Melbourne Water arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report:

- Were limited to those specifically detailed in the report and are subject to the scope limitations stated in this section and also set out in the report.
- The field assessment was limited to vascular plant species (ferns, conifers and flowering plants) and terrestrial vertebrate fauna. The field assessment did not consider aquatic or marine fauna (including marine mammals, birds, reptiles or invertebrates). Aquatic fauna were considered at a desktop level only.
- The field assessment was undertaken in May, which is not the optimal survey period for many species (e.g. grasses, ephemeral wetland plants). However, given the degraded nature of the vegetation within the study site, this limitation did not impact the results of the ecological assessment.
- The field assessment did not include any non-vascular flora (e.g. mosses, liverworts, lichens), fungi, or terrestrial invertebrates, except where listed threatened species are known or are suspected to occur or where bryophytes comprise part of the EVC benchmark used for the habitat hectare assessment (e.g. cover of Bryophytes).
- Did not involve detailed assessments (including VQA or mapping large canopy trees) along existing access tracks or in other locations where impacts to native vegetation have not been proposed.
- For the purposes of a planning permit to remove native vegetation, the site assessment report must be current. This generally means the site assessment must have been completed within the last three years for grassy, heathland, shrubland ecosystems including grassy woodlands, and five years for forest ecosystems. If the assessment is older than this, an accredited mative vegetation assessor must verify the condition, and if the score is no longer accurate, complete a reward assessment (DEL WP 2018).
- Involved the use of Collector, an accurate to within ten metres on site.
- Did not involve any targeted surveys for threatened flora or fauna, although did include identification of flora that were fertile and/or flowering at the time of the field investigations. It was beyond the scope of this assessment to employ more detailed flora and fauna survey techniques.
- Did not include a detailed assessment of planning implications with relation to legislation outside of those considered from an ecological perspective. A detailed assessment of planning overlays (and other sources of legislative information) has not been undertaken as part of this project unless otherwise discussed.

The opinions, conclusions and any recommendations in this report are based on conditions encountered, observations and information reviewed up to the date of preparation of the report. As GHD was only present on specific dates and certain time periods, this report is only indicative (and not definitive) of flora and fauna present on the site. Flora and fauna (whether in type or quantity) can also change and fluctuate at different times throughout the year (due to factors including seasonal changes, external events or third-party intervention), and it is generally not possible to observe such changes or fluctuations where only a discrete site visit has taken place. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

GHD has prepared this report on the basis of information provided by Melbourne Water and others (including Government authorities). GHD has not independently verified or checked this information beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD and described within this report. GHD disclaims liability arising from any of the assumptions being incorrect.

## 2. Methods

## 2.1 Desktop review and data sources

A desktop assessment of ecological values known or predicted to be present within the study area (10 km buffer around the study site) was undertaken and included a review of the following government databases and spatial datasets:

- Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Protected Matters Search Tool (PMST) (maintained by the Department of Climate Change, Energy, the Environment and Water; DCCEEW)
- The Victorian Biodiversity Atlas (VBA), maintained by the Department of Energy, Environment and Climate Action (DEECA)
- NatureKit maintained by DEECA
- Extant and pre-1750 Ecological Vegetation Classes (EVCs) mapped by DEECA
- Aerial imagery of the study site

### 2.2 Site assessment

An ecological site assessment of the study site was undertaken by a GHD botanist Rohan Khot and zoologist Zahlia Payne on 2 May 2024.

All flora fieldwork was undertaken in accordance with GHD's Permit to take Protected Flora under the *Flora and Fauna Guarantee Act 1988* (FFG Act; permit no. 10011043) and fauna fieldwork in accordance with scientific procedures fieldwork licence (SPFL20067 GHD Pty Ltd).

# 2.2.1 Flora and vegetation ADVERTISED MATERIAL Planning Application: 1250442 Date Prepared: 26 November 2025

The flora assessment involved the evaluation of remnant patches of native vegetation, non-native vegetation, and scattered trees in accordance with the Guidelines for the removal, destruction or lopping of native vegetation (DELWP 2017). The assessment included mapping the extent and condition of native vegetation within the study site, including:

- Defining and mapping the relevant EVCs
- Mapping and measuring all patch trees that meet the benchmark to be considered large trees
- Recording the location of threatened and/or protected flora
- Recording the location of any listed ecological communities
- Compiling an inventory of native and non-native flora, together with their conservation status and origin
- Identifying significant weed species including those declared under relevant state and national legislation,
   policy or strategy, e.g. Catchment and Land Protection Act 1994 (CaLP Act) and the national weeds strategy

#### 2.2.2 Fauna

The fauna site assessment involved:

- An appraisal of the main terrestrial fauna habitat types and their condition
- A preliminary assessment of the likelihood of conservation significant fauna species occurring within the study site
- Consideration of potential project impacts on conservation significant fauna species and other native fauna

## 2.3 Nomenclature and conservation status

#### 2.3.1 Flora

Common and scientific names for plants follow the Victorian Biodiversity Atlas (VBA) (Version 3.2.8).

Conservation status was determined in accordance with the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and the Victorian *Flora and Fauna Guarantee Act 1988* (FFG Act).

## 2.3.2 Native vegetation

Native vegetation is defined in the Victoria Planning Provisions as 'plants that are indigenous to Victoria, including trees, shrubs, herbs and grasses'. For the purpose of the *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP 2017), native vegetation is classified into two categories, a **Patch** of vegetation or a **Scattered tree**:

- A Patch of native vegetation is either:
  - An area of native vegetation where at least 25% of the total perennial understorey plant cover is native
  - Any area with three or more native canopy trees where the drip line of each tree touches the drip line of at least one other tree, forming a continuous canopy
  - Any mapped wetland included in the Current wetlands map (available on DEECA online mapping tools)
- A Scattered tree is a native canopy tree that does not form part of a patch

Other forms of vegetation include:

- Planted native vegetation, i.e. includes non-indigenous native species and areas of revegetation
- Scattered native plants, i.e. parches of vegetation dominated by introduced species where less than 25% of the total perennial understorey plant cover is native.
- ADVERTISED MATERIAL

  Non-native vegetation, i.e. vegetation that comprises entirely introduced flora

# 2.3.3 Vegetation com This copied document is made available for the purpose of the planning process as set out in the Planning and promated Act 1987. The information must not be used for any other pages. By thing a copy of this document you acknowledge to the purpose specified above and company the pages. The purpose specified above and pages are proposed to the purpose specified above and pages. This copied document is made available for the purpose of the planning process as set out in the Planning and promote Act 1987. The information must not be used to provide the purpose of the planning process as set out in the Planning and promote Act 1987. The information must not be used to provide the purpose of the planning process as set out in the Planning and promote Act 1987. The information must not be used to provide the Planning and provide Act 1987. The provide Act 1987 the Planning and Planning Act 1987 the Plan

Native vegetation in Victoria is mapped in units known as ecological vegetation classes (EVCs). EVCs are described according to a combination of floristic, life form, and ecological characteristics, and through an inferred fidelity to particular environmental attributes.

Each EVC occurs under a common regime of ecological processes within a given biogeographic range and may contain multiple floristic communities.

Other vegetation types that may occur in Victoria include vegetation communities listed as threatened under the EPBC Act and/or the FFG Act. These have separate vegetation classification systems, each of which is also separate to the EVC classification system. As such, any single patch of native vegetation occurring within the subject site (or anywhere in Victoria) will be classifiable as a particular EVC and may also be separately classified as a different threatened ecological community under the EPBC Act, and/or as another vegetation community under the FFG Act.

### 2.3.4 FFG Act – Protected flora

Protected flora under the FFG Act 1988 include:

- 1. Plant taxa (species, subspecies or varieties) listed as threatened under the FFG Act
- 2. Plant taxa belonging to communities listed as threatened under the FFG Act
- 3. Plant taxa that are declared protected by the Minister. These are taxa which are not threatened but require protection for other reasons.

There are two different categories for declared protected flora: generally protected flora (GP) and restricted use protected flora (RU; DEECA 2024b).

'Generally protected flora' refers to all other protected flora that are impacted by take for all other reasons (e.g., development, infrastructure maintenance works, etc.) and can include those species at risk of both commercial/personal take and incidental take.

'Restricted use protected flora' are those flora that are exclusively impacted by take for commercial or personal use (e.g., not at risk from other activities). Take for other reasons (e.g., incidental take for track maintenance etc.) is not restricted as long as reasonable care is taken not to impact the taxon.

**Incidental take** is where plants are taken to make space for something else – for example, clearing for the construction or maintenance of a building, road, or pipeline; clearing for grazing or cropping; or clearing to construct bushfire fuel break. Any take where the intent is not to obtain a specimen of the plant, but to simply remove it, is incidental take. Incidental take would apply to this Project.

Table 1 specifies when a permit is required or not required for removal of protected flora.

Table 1 Scenarios when a permit is required to remove protected flora

	Generally protected	Restricted use protected flora
Incidental take	Permit required	No permit required
Take for sale	Permit required	Permit required
Take for personal use	Permit required	Permit required

#### 2.3.5 Fauna and fauna communities

Unless otherwise noted, common and scientific names for fauna follow the VBA database (Version 3.2.8).

The conservation significance of fauna was determined in accordance with the EPBC Act (threatened, migratory and marine species) and the Victorian FFG Act (threatened species).

The EPBC Act and the FFG Act list a number of threatened fauna communities, at a national or state level, respectively. Fauna communities known or potentially occurring within the study area are only considered if they are listed under either of these Acts.

#### 2.3.6 Weeds

The loss and degradation of native plant and animal habitat by invasion of escaped garden plants, including aquatic plants is a listed key threatening process under the EPBC Act. In addition, *Invasion of native vegetation by 'environmental weeds'*, is a listed potentially threatening process under the FFG Act.

During the field survey, a list of all flora species observed within the study site was generated. This list includes environmental weeds, noxious weeds listed under the *Catchment and Land Protection Act 1994* (CaLP Act), and Weeds of National Significance (WoNS). All such weed species are listed in Appendix A.



# 3. Ecological values – flora

## 3.1 Vegetation communities and condition

## 3.1.1 Ecological Vegetation Classes

Remnant native vegetation in the study area has been mapped by DEECA at a scale of 1:25,000. The 2005 EVC mapping indicates one EVC is modelled to potentially occur within the study site: Swampy Woodland (EVC 937).

During the field assessment, one EVC was identified in the study site:

1. **Swampy Woodland (EVC 937), listed as Endangered in the Gippsland Plain Bioregion**. Within this bioregion, this EVC usually consists of a grassy understory in association with an open *Eucalyptus* woodland with a maximum height of approximately 15 m (DEECA 2024). Multiple patches of varying quality, comprising two Habitat zones of this EVC were observed within the study site.

Habitat zones and EVCs are described in Table 2.



Table 2 Habitat zones identified during the field assessment

Vegetation type	Description	Characteristic Photograph
Habitat Zone 1  Swampy Woodland (EVC 937)  Bioregional Conservation Status: Endangered in the Gippsland Plain Bioregion.	This habitat zone is located on the banks of the waterway running through the site. It is significantly modified, with planted individuals interspersed through the remnant vegetation.  The habitat zone contains a sub-canopy of Acacia dealbata (Silver Wattle). The midstory is dominated by native shrubs such as Coprosma quadrifida (Prickly Currant-bush), Cassinia aculeata (Common Cassinia), Olearia argophylla (Musk Daisy-bush), and Goodenia ovata (Hop Goodenia). The ground layer included scattered native grasses, such as Microlaena stipoides (Weeping Grass). Also present as an epiphyte in a large proportion of canopy trees is Amyema pendula (Drooping Mistletoe).  Weed cover in this habitat zone is moderate (30 – 40%) and includes species such as the CaLP Listed Orateogus monogyna (Hawthom) and Cirsium vulgare (Spear Thistle), as well as the CaLP and WoNS listed Lydiatidaterium (African Boxthorn) and Rubus analogus files (Cockstoo) and Planning Application: 1250442  Date Prepared: 26 November 2025  Planted vegetation vas generally 10-15m in height, and included a number of tree species such as the planting dealers in height, and included a number of tree species such as groups by planting information sideroxylon subsp. Sideroxylon subsp. Sideroxylon subsp. Sideroxylon subsp. Sideroxylon subsp. Sideroxylon and Acacia melanoxylon (Blackwood).	Ting and the state of the state

#### Vegetation type Description **Characteristic Photograph Habitat Zone 2** This habitat zone is a small treeless patch of EVC 937 Swampy Woodland located along a drainage line through the paddock adjacent to the waterway. It is highly degraded and **Swampy Woodland (EVC 937)** was not holding water at the time of the site assessment, so Bioregional Conservation Status: additional indigenous flora species may be observed at a **Endangered** in the Gippsland Plain more optimal survey time. Bioregion. Dominant indigenous flora species in this habitat zone include Euchiton involucratus (Star Cudweed), Juncus spp. (Rush, species level identification was limited by stock grazing), Lythrum hyssopifolia (Loosestrife), and Rumex brownii (Slender Dock). The cover of weeds is high (50 - 60% cover) throughout the habitat zone. The dominant introduced species include Cirsium vulgare (Spear Thistle), Cynodon dactylon (Couch), Plantago lanceolata (Ribwort Plantain), and Erigeron bonariensis (Flaxleaf Fleabane).





#### **ADVERTISED MATERIAL**

Planning Application: T250442 Date Prepared: 26 November 2025

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Table 3 Results of vegetation quality assessment

VQA		HZ1	HZ2	
Bioregion		Gippsland Plain	Gippsland Plain	
EVC#		937	937	
EVC Name		Swampy Woodland	Swampy Woodland	
Bioregional Conservation Status		Endangered	Endangered	
		Sco	ore	
Site	Large Trees	0	0	
condition	Tree Canopy Cover	2	0	
	Lack of Weeds	4	4	
	Understory	15	5	
	Recruitment	3	4	
	Organic Litter	3	0	
	Logs	0	NA	
	Standardiser	1.0	1.36	
	Total Site Score	27	9	
Landscape	Patch Size	2	1	
value	Neighbourhood	0	0	
	Distance to Core	0	0	
Habitat Score		29	10	
Habitat points = #/100		0.29	0.10	

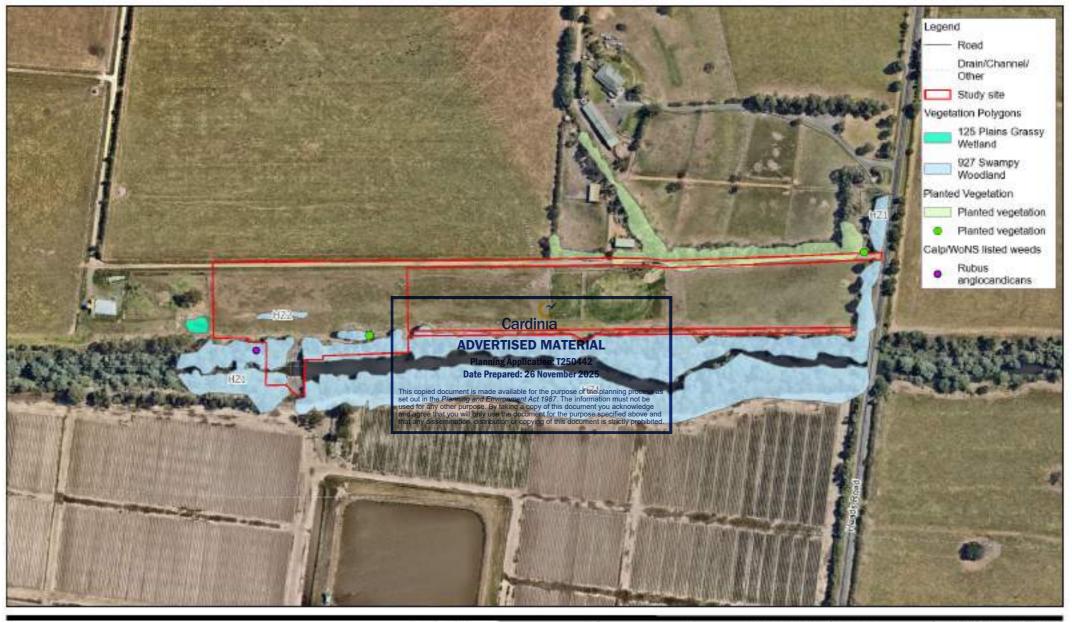
## 3.1.2 Threatened communities

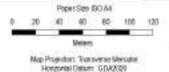
The PMST predicted that the following two EPBC Act-listed threatened ecological communities may or are likely to occur within the study area:

- White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland (Critically Endangered)
- Natural Damp Grassland of the Victorian Coastal Plains (Critically Endangered)

Neither of these EPBC Act-listed communities, or any associated FFG Act-listed communities, were identified during the study site. No other threatened flora communities are considered as having the potential to be present or impacted by the proposed works.







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Melbourne Water Corporation Lang Lang Creek Fishway -Design Review and Tender Assistance Project No. 12637984 Revision No. 0

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**Ecological values** 

FIGURE 2

# 3.2 Flora species

The VBA and PMST have records of 793 flora species from within the study area (10 km radius of the study site). These records include 569 native species, 198 introduced species, and 26 native but non-indigenous to the area. During the field assessment, 51 flora species were identified, including 24 native species, and 27 introduced species (Appendix A).

#### 3.2.1 Threatened flora

The VBA and PMST searches undertaken by GHD identified 23 threatened flora species previously recorded or predicted to occur within 10 km of the study site. Of the threatened flora species known or predicted to occur within 10 km of the study site, nine species are listed under the FFG Act, 15 species are listed under the EPBC Act, with one species listed under both the FFG and EPBC acts. The likelihood of occurrence was assessed for all the listed threatened flora species recorded in the desktop assessment Appendix B.

One native flora species listed as endangered under the FFG Act (*Eucalyptus sideroxylon* subsp. *sideroxylon*) was identified during the site assessment. This species was planted in this location by the landowners of the adjacent property and is non-indigenous to the area and the EVC 937 Swampy Woodland. As a result, it is not considered protected in this context. No other threatened flora species were identified during the site assessment.

It is outside the scope of this assessment to conduct targeted surveys for threatened flora species within the study site. It is considered unlikely that other threatened species may be present within the study site (Appendix B).

# 3.2.2 Protected flora (FFG Act)

Three protected flora species were recorded within the study site (see Appendix A). These three species are listed as restricted use. A FFG permit is not required for incidental take of protected flora listed as restricted use (RU) as long as reasonable care is taken to not impact the taxon (Table 1).

#### 3.2.3 Noxious weeds

Five species listed as noxious weeds under the *Catchment and Land Protection Act 1994* (CaLP Act) in the port Philip and Westernport (Melbourne Water) CMA region was recorded in the study site. Of these species, *Lycium ferocissimum* (African Boxthorn) and *Rubus anglocandicans* (Blackberry) are also listed as a weed of national significance (WoNS).

Table 4 Noxious weeds observed at the study site

Scientific Name	Common Name	Listing
Cirsium vulgare	Spear Thistle	Regionally Controlled (C)
Crataegus monogyna	Hawthorn	Regionally Controlled (C)
Lycium ferocissimum	African Boxthorn	Regionally Controlled (C), WoNS
Oxalis pes-caprae	Soursob	Restricted (R)
Rubus anglocandicans	Blackberry	Regionally Controlled (C), WoNS



# Ecological values – fauna

A total of 354 terrestrial fauna species (328 native and 26 non-native) have been recorded or are predicted to occur within the study area (i.e., a 10 km radius of the study site) (VBA and PMST). Of these native species, 53 are considered to be threatened and are listed under one or both of the EPBC Act (42) and/or the FFG Act (48), and 16 species are categorised as migratory under the EPBC Act.

In addition, 37 species of aquatic fauna (28 native and nine introduced) have been recorded or are predicted to occur within the study area (i.e., a 10 km radius of the study site) (VBA). Of these native species, three are threatened and are listed under one or both of the EPBC Act and/or the FFG Act.

Only some of these species are expected to occur within the study site. Fauna habitat and fauna species and communities are discussed further in sections below.

#### 4.1 Fauna habitat

The study site comprises the waterway and banks of Lang Lang River, a tributary of Lang Lang River, located within a highly disturbed agricultural landscape.

The northern creek bank and access road has been revegetated with both indigenous and non-indigenous native plants over the 40 years.

Fauna habitat present within the study site includes the creek, and riparian vegetation and woodland habitat on the banks of the creek. Limited fauna habitat is also present as grassland within the highly disturbed paddock adjacent to the creek.

These habitat types are discussed further below.

#### Woodland

Cardinia

Areas of woodland habitat are present along the hanks of Lang River (Figure 2). This habitat is characterised by predominantly planted canopy trees (Plate 1) Provided areas were characterised by a sparse shrub mid-storey of Acacia species and disturbed understorey of both native and non-native shrubs and grasses. Large infestations of Blackberry were common throughout the study site.

Stags of various sizes were also present along the northern bank of Lang Lang River (Plate 2).

Woodland habitat is expected to provide habitat for common and adaptable birds and mammals. When flowering, the trees and shrubs likely provide foraging habitat for common bird species, such as Rainbow Lorikeet (Trichoglossus haematodus) and New Holland Honeyeater (Phylidonyris novaehollandiae). Threatened fauna, including Grey-headed Flying-fox (Pteropus poliocephalus) and Gang-gang Cockatoo (Callocephalon fimbriatum), may also occasionally forage within the study site.



Plate 1 Woodland habitat north of Lang Lang River



Plate 2 Woodland habitat north of Lang Lang River

#### Waterbodies (Creek, drainage line)

The Lang River weir is located on the Lang River and under current conditions the weir creates an impassable barrier for fish. The existing weir is fixed crest concrete weir, constructed in 1976 with no gating or operational needs. Water fills behind the weir and then cascades down the weir face. The weir has led to the creation of a large, deep (>5 m) weir pool upstream from the barrier that has led to relatively stable hydraulic conditions upstream from the weir. The lower reaches of the Lang Lang River, where the weir is located, has been historically modified to decrease the risk of flooding and as such it is now contained within steep banks of approximately 10 m height. Downstream of the weir, fast flow conditions are created as the weir over-tops but at the time of the site visit low flow conditions were occurring (Plate 4). The weir pool is fringed by emergent aquatic rushes and reeds (*Juncus sp.* and *Phragmites australis*) but its depth prevents the growth of macrophytes in the main channel (Plate 3).

The waterway may support some Dwarf Galaxias (*Galaxiella pusilla*) along banks where habitat is suitable and Australian Grayling (*Prototroctes maraena*) are recorded downstream of the weir. The steep profile of the banks may be suitable habitat for Platypus (*Ornithorhynchus anatinus*) as this is favourable for establishing burrows.

Some shallow water occurred along the northern margins of creek, which may provide foraging habitat for common waterbirds, such as the White-faced Heron (*Egretta novaehollandiae*).

In the paddock north of Lang Lang River, a drainage line courses from a wetland area to the west, outside of the study site. The drainage line was dry at the time of assessment, however, may provide suitable habitat for fauna during periods of inundation. Species that may forage within this area include common bird species, such as Straw-necked Ibis (*Threskiornis spinicollis*) and threatened bird species, such as Latham's Snipe (*Gallinago hardwickii*).



Plate 3 Lang Lang River, east of weir

Plate 4 Lang Lang River, west of weir

#### Grassland

Areas of grassland are present within the study site along the access track (Plate 5) and within the paddock north of Lang River (Plate 6).

The dense grass along the fence, south of the paddock, may provide some dispersal habitat for small mammals, including the threatened Southern Brown Bandicoot (*Isoodon obesulus obesulus*), within the predominantly cleared and disturbed surrounding area.

The paddock and access track were mostly comprised of non-native grass species and were highly disturbed from regular slashing in the access track and grazing by horses and livestock. Crayfish burrows were present throughout the study site area within the paddock (Plate 7 and Plate 8). Common (i.e., non-threatened) burrowing crayfish species, including Granular Burrowing Crayfish (*Engaeus cunicularius*) and Richard's Burrowing Crayfish (*Engaeus laevis*), have been recorded in the VBA within the study area.



Plate 5 Dense grassland habitat along fence line



Plate 6 Grazed grassland within paddock



Plate 7 Crayfish burrow within paddock



Plate 8 Crayfish burrow within paddock

# 4.2 Threatened fauna

The desktop assessment identified 53 species that are listed as threatened under state and/or federal legislation and that could potentially occur within the study site. Of those, 42 are listed as threatened under the EPBC Act and 48 are listed as threatened under the FFG Act.

An account of all threatened species, with a likelihood of occurrence evaluation, is provided in Appendix C. Ten species are considered more likely than the others to use habitats within the study site at least occasionally and are presented within Table 5.



Table 5 Threatened fauna species that may occur within the study area

Common name	Scientific Name	EPBC	FFG	Areas of Potential habitat	
Mammals					
Grey-headed Flying-fox	Pteropus poliocephalus	VU	vu	Foraging habitat within woodland and planted vegetation	
Platypus	Ornithorhynchus anatinus		vu	Lang Lang River	
Southern Brown Bandicoot	Isoodon obesulus obesulus	EN	en	Woodland vegetation with dense ground and shrub cover	
Birds					
Eastern Great Egret	Ardea alba modesta		vu	Limited foraging habitat along creek margins and within paddock when inundated	
Gang-gang Cockatoo	Callocephalon fimbriatum	EN	en	Foraging habitat within woodland and planted vegetation	
Hardhead	Aythya australis		vu	May forage within Lang Lang River and roost on adjacent banks	
Latham's Snipe	Gallinago hardwickii	VU		Limited foraging habitat along creek margins and within paddock when inundated	
Little Egret	Egretta garzetta nigripes		en	Limited foraging habitat along creek margins and within paddock when inundated	
Musk Duck	Cardinia  Biziura lobaia  Planning Application: 1250442  Date Prepared: 26 November 2025		vu	May occasionally forage within Lang Lang River and roost on adjacent banks	
White-throated Needletail	This copied document is made available for the purpose of the planning set out in the Planning and Environment Act 1987. The information musured for any other purpose. By taking a copy of this document you ack and agree that you will only use the document for the purpose specified.  Hitungapus: caudacutus this document is strictly the purpose specified.	t not be	vu	May occasionally occur within the airspace above the study site	

# 4.3 Migratory species

Of the fauna identified for the project, 16 species of native birds are listed as migratory under the EPBC Act. Four of the species (Latham's Snipe; Satin Flycatcher, *Myiagra cyanoleuca*; Rufous Fantail, *Rhipidura rufifrons*) are considered more likely than the others to occur within the study site. Latham's Snipe was considered above in Section 4.2, and is not discussed further.

Both Satin Flycatcher and Rufous Fantail may rarely visit the study site, however, are not expected to regularly visit the habitat within the study site.

The remaining 13 migratory listed species are predominantly shorebird species and there is no suitable habitat for them due to the generally steep creek banks and higher water levels of Lang Lang River. Most of the species considered favour shallow waters for foraging, which are limited to areas downstream of the weir, outside of the study site. Shorebird species are regularly recorded within coastal areas of Western Port Bay.

Therefore, the study site is unlikely to support important habitat or an ecologically significant proportion of a migratory species population.

# 4.4 Fauna communities

There are no threatened fauna communities predicted to occur within the study site.

#### 4.5 Wetlands

## 4.5.1 Wetlands of International Significance

The PMST identified one wetland of international significance (Ramsar sites) in the vicinity of the study site: Western Port (Table 6).

Table 6 Ramsar wetlands identified by PMST

Ramsar Site Name	Proximity	
Western Port	Within 10 km of the study site	

According to the Significant Impact Guidelines (DoE 2013), an action is likely to have a significant impact on the ecological character of a declared Ramsar wetland if there is a real chance or possibility that it will result in:

- Areas of the wetland being destroyed or substantially modified
- A substantial and measurable change in the hydrological regime of the wetland, for example, a substantial change to the volume, timing, duration and frequency of ground and surface water flows to and within the wetland
- The habitat or lifecycle of native species, including invertebrate fauna and fish species, dependent upon the wetland being seriously affected
- A substantial and measurable change in the water quality of the wetland for example, a substantial change
  in the level of salinity, pollutants, or nutrients in the wetland, or water temperature which may adversely
  impact on biodiversity, ecological integrity, social amenity or human health, or
- An invasive species that is harmful to the ecological character of the wetland being established (or an existing
- Invasive species being spread) in the wetland

The proposed upgrade works to the existing regulator are unlikely to impact upon the wider Western Port Ramsar site, as the study site is already highly modified, and water levels have been regulated since the construction of the weir.

Additionally, the upgrade to the existing weir will likely contribute to the ongoing ecological restoration of Lang Lang River, particularly with allowing the dispersal of fish species.

#### 4.5.2 Current Wetlands

There are no wetlands mapped under the Current Wetlands layer in or adjacent to the study site. Therefore, the proposed works are not expected to directly or indirectly impact any areas mapped as a current wetland by DEECA.



# Measures to avoid and minimise impacts to native vegetation

# 5.1 Proposed works

Melbourne water proposes to upgrade the existing Lang River weir to allow for the dispersal of fish species migrating upstream (Plate 9). These works will involve upgrading three panels in the pre-existing weir. One panel will be replaced with a new notched panel, behind which the new fish lock will be situated. The second and third panels will be replaced with a minor changed height arrangement, which will divert water into an overflow area rather than into the Fish Entrance Area, preserving the function of the fish lock and providing adjustment for minor afflux compensation. The fish lock itself will be contained within the existing downstream apron of the weir, although the electrical control panel and access infrastructure extend up to the top of banks of the creek but are contained within the crown land parcel (refer to image).

In order to complete these works Melbourne Water will need to access the existing weir and areas for vehicle turnaround and laydown. As a temporary arrangement, the adjacent paddock is likely to be converted for a site laydown area, in part only.









Figure 3 Visualisation of the proposed Lang Lang Fish Lock

# 5.2 Avoidance and minimisation of impacts

#### 5.2.1 Avoidance

Melbourne Water has taken a number of measures to avoid impacts on native vegetation where practicable. Due to the nature of the works (upgrading a specific piece of water utility equipment), site level avoidance measures are not possible for this project. However, within the site a number of steps have been taken to avoid impacts where practicable. These steps include:

- Accessing the fish lock through the previously disturbed property on the northern side of the waterway. This
  area is currently used for agricultural purposes (stock and horse grazing) and as a result does not contain
  much native vegetation.
- The access road immediately adjacent to the waterway will be used for day-to-day use which may require tree trimming, which Melbourne Water currently perform as part of track maintenance. An access route through the farm property will also be used for larger plant and materials. This access track is larger but will require the removal/lopping of native vegetation in order to facilitate access by heavy machinery.
- GHD has worked with Melbourne Water to refine the works footprint. These alterations included removing the coffers from the weir design and incorporating construability advice which reduced impacts on native vegetation from 0.425 hectares to 0.17 hectares.
- Of the 0.17 hectares of impacted native vegetation, 0.047 hectares will potentially be retained which is to be determined by the successful contractor post-award.

# 5.2.2 Mitigation and minimisation

Prior to the works commencing, it is recommended that a Construction Environmental Management Plan (CEMP) is developed and implemented for the project to further avoid and minimise impacts on ecological values. The CEMP should include provisions relevant to protectiff the ecological values identified within the study site.

Measures to avoid or minimise impacts on ecological values identified within the study site.

Measures to avoid or minimise impacts on ecological values identified within the Study site.

Date Prepared: 26 November 2025

- Implement measures, such as temporary No Go Zones to protect native vegetation to be retained. No Go Zones should be clearly delineated so that construction workers are able to avoid any accidental damage to native vegetation during construction, beyond the approved project footprint.
- Implement the use of sediment control devices such as silt traps and sediment fencing during the construction period. Measures to prevent contaminants (e.g. oils, chemicals) from entering aquatic habitat or waterways as the results of accidental spills should also be included.
- Based on our understanding of the proposed works, dewatering will be conducted across approximately three
  weeks during summer, avoiding works during Platypus breeding season (August to September).
- Works during Platypus nesting season (September to February) will avoid disturbing river banks as heavy machinery can impact platypus burrows if they are present.
- It is understood that the water level would be drawn down for approximately three weeks in summer during
  which precast panels will be installed. Ensuring water levels aren't completely depleted in the weir pool during
  this period is necessary to secure access to habitat for Platypus and reduce the possibility of bank erosion.
- Water levels do not usually drop below one metre during summer in this section of the Lang Lang River and should ideally be kept at this level. Water quality monitoring with a focus on dissolved oxygen (the parameters of which are to be determined by a suitably qualified ecologist) is recommended to observe if lowering the water level is having an impact on macroinvertebrate fauna which Platypus prey on.
- Any in-water works that can impact water quality, flow levels or aquatic habitat conducted during Dwarf Galaxias spawning season (May to September) should be avoided if possible.
- Incorporate weed, disease, and pest control measures to prevent the spread of existing and/or the introduction of new weeds, diseases, or pests to the site, discussed further in Section 5.2.3.

# 5.2.3 Controlling the spread of noxious weeds

Five noxious weeds were identified within the study site, including two Weeds of National Significance (see section 3.1.2), which have the potential to spread during the construction stage impacting native vegetation and fauna habitat. There is also the potential for new noxious weeds to be introduced to the study site during the works. To avoid such impacts, the CEMP should include weed management strategies that will prevent the spread and introduction of noxious weeds and thus minimise impacts on ecological values. Under the *Catchment and Land Protection Act 1994*, concerted efforts must be taken to avoid spreading or introducing weeds into or out of the study site.

Works should be undertaken by an appropriately qualified person with the ability to accurately distinguish the relevant weed species from indigenous flora, in order to avoid impacting native species during control works.

Additionally, consideration for fauna species, i.e. frogs and/or other aquatic species, for any weed control in or near aquatic habitat, or areas of poor drainage. Manual removal is preferable, otherwise low-toxicity non-residual herbicides registered as suitable in watercourses (e.g. Roundup Bioactive®) may be appropriate for use in a targeted manner such as spot spraying.

Other measures to maintain weed control include washing down and inspecting vehicles, machinery, and boots before entering/leaving working areas to avoid transporting viable plant materials or large clods of soil.

# 5.3 Residual impacts on ecological values

### 5.3.1 Impacts on native vegetation

Despite the avoidance and minimisation measures discussed in Section 5.2, 0.123 hectares of native vegetation will be impacted by the proposed works (which includes, access routes, laydown areas, and the weir site). An additional 0.047 hectares of native vegetation may potentially be impacted by the proposed works. The retention of this vegetation will be determined by the successful contractor post-award.

All of these impacts will occur in EVO 937 Swampy Woodland Offsets are calculated within the Native Vegetation Removal Report (NVRR) (Appendix E) Both impacted and potentially impacted native vegetation have been considered for the Native Vegetation Removal Report and offset calculated within the Native Vegetation have been reconsidered for the Native Vegetation assessor.

Melbourne Water have an 'in house' offset bank and are proposing to source offsets for the project from their own offset bank. The Vegetation Offset Availability Statement is included at Appendix F.

# 5.3.2 Impacts on threatened fauna

Threatened fauna species that utilise and depend on aquatic habitats may be impacted upon through decreased water quality and removal of habitat. The potential of impacts on these species and their habitats is discussed in further detail below.

As the study site primarily encompasses Lang River and highly modified habitats, it is unlikely that threatened fauna species that are highly mobile (i.e. waterbirds and volant mammals) will be impacted upon by the proposed works. Therefore, these species are not considered further.

#### Platypus Ornithorhynchus anatinus

The Platypus lives in rivers, streams and lakes of eastern Australia. It constructs burrows into the banks of the waterways, generally with well-hidden entrances above water level.

This species has been recorded three times in the VBA database in the study area, most recently in 1998. Within the Atlas of Living Australia database, a record from 2022 is located within the study site (ALA 2024). This species likely occurs upstream of the existing weir, where the deeper water is more reliable and where suitable burrowing habitat is present along the creek banks.

Potential impacts on the Platypus include destruction of sections of the creek banks, decreased water quality from turbidity and sedimentation and removal of shelter and nesting habitat if the creek banks upstream of the weir are disturbed.

#### Southern Brown Bandicoot (Isoodon obesulus obesulus)

The Southern Brown Bandicoot is found along the coastal regions from New South Wales to South Australia. Within Victoria, the species has a disjunct distribution, with clustered records in several bioregions (TSSC 2016). The Southern Brown Bandicoot inhabits dense vegetation and is also known to occur within areas of exotic shrubby species, such as blackberry (*Rubus* spp.) (TSSC 2016). No critical habitat or important populations have been identified for this species.

The species has been recorded 153 times within the study area, with the last record in 2021.

The woodland habitat and dense grassland along the fence line within the study site may provide suitable habitat for this species. The species utilises dense, ground and mid-storey cover for shelter and to disperse to surrounding habitats (TSSC 2016). High vegetation cover and connectivity also reduces predation of the Southern Brown Bandicoot by pest vertebrate species, included Red Fox (*Vulpes vulpes*) (TSSC 2016).

Removal of habitat within the study site may reduce the dispersal ability of Southern Brown Bandicoot, however the small size of the construction footprint within suitable habitat (146 meters in length). This local fragmentation of habitat is expected to be temporary during construction of the fish lock. Revegetating the northern bank with plant species known to be habitat for Southern Brown Bandicoot is recommended post-construction to restore habitat connectivity along Lang River.

Any impacts to this species are expected to be very minor - they are not expected to be important, notable, or of consequence, having regard to their context or intensity.

#### Australian Grayling Prototroctes maraena

The Australian Grayling is an amphidromous fish that migrates between fresh and salt water. Most of its life is spent in freshwater but adults undertake annual migrations downstream towards the upper limit of estuaries to spawn during autumn (April to June), before moving back upstream. Spawning is initiated by increased river flow and decreased water temperatures (PELWP 2015a). The Lang Lang River is not listed as an important population in the DELWP Action Statement (DELWP 2015a) batch listed as an important population under the Recovery Plan for the species (Backhouse et. al. 2008).

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Within the Lang Lang River Australian Grayling and likely to have been the Lang Lang River weir has restricted assessed for the Lang Lang River weir has restricted assessed for the lang Lang River weir has restricted assessed for the lang Lang River weir. The construction and operation of the Lang Lang River fish lock will benefit this species by opening up the Lang Lang River for fish passage and thus provide significantly greater dispersal opportunities into the catchment. Under current conditions, it is unlikely that Australian Grayling inhabit the Lang Lang River upstream from the weir. The only way that fish can currently move upstream would be during significant (bankfull) flooding.

An EPBC Significant Impact assessment has been completed (Appendix G). The assessment indicates that the Project is unlikely to lead to significant adverse impacts to Australian Grayling, with the ultimate outcome being a positive impact, due to increased connectivity. See Appendix G for the significant impact criteria evaluation.

#### Dwarf Galaxias Galaxiella pusilla

Dwarf Galaxias are a mid-water, free swimming species with its entire life spent in freshwater (Saddlier et. al., 2010). Typically, they occur in slow flowing and still, shallow, permanent and temporary, freshwater habitats including swamps, drains and backwaters that often contain dense stands of aquatic macrophytes and emergent plants (Cadwallader & Backhouse, 1983).

Dwarf Galaxias are a short-lived species that probably has poor dispersal abilities (Saddlier et. al., 2010), reach sexual maturity in their first year, and likely die soon after spawning (Bray, 2016). Spawning occurs in late winterspring with eggs usually attached on the underside of aquatic vegetation or on hard surfaces such as rock or timber (Saddlier et. al., 2010). However, Bray (2016) suggests that they can spawn all year round in suitable conditions. Larvae hatch after about two to three weeks and are around 4.5 mm long (Saddlier et. al., 2010).

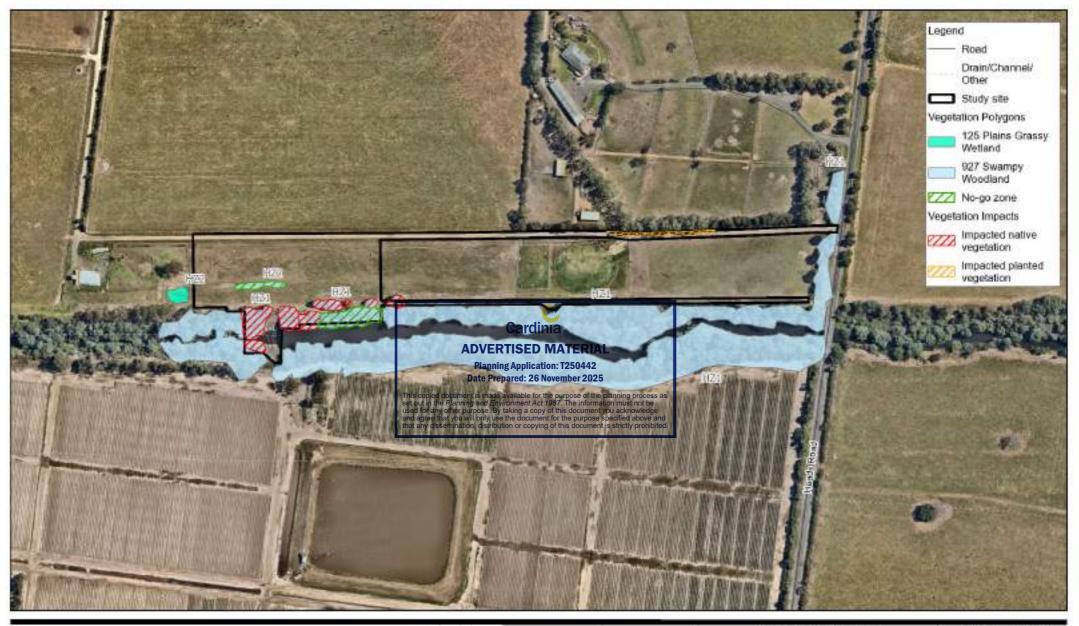
The Lang River population is considered an 'important population' (DELWP 2015b). Dwarf Galaxias have been found throughout the Lang Lang catchment - with a 2008 record approximately 2 km upstream from the Lang Lang River weir.

The weir pool itself does not provide preferred conditions for the species. The deep open-water pool, fringed by limited emergent aquatic vegetation, could temporarily support low abundances of the species (e.g. during flood conditions when the species may undertake longer movements), but Dwarf Galaxias prefer dense stands of aquatic macrophytes which the weir pool does not support.

Habitat directly downstream of the weir is unlikely to support the species, with a deep plunge pool that contains no suitable aquatic vegetation and turbulent conditions (when the weir is over-topping) that Dwarf Galaxias would be unable to tolerate. The farm dam and swampy pasture land adjacent to the Lang Lang River also has the potential to support this species but the likelihood is considered low. The dam contains minimal aquatic vegetation and is subject to detrimental impacts due to cattle access. The drainage channel running to and from the dam is likely to only contain water during wet periods. Its shallow profile, dominated by pasture grass, would not provide habitat for aquatic fauna. The drainage channels do not provide suitable passage to and from the Lang Lang River other than through bankfull flood events and as such, the farm dam is unlikely to support Dwarf Galaxias under current conditions. Therefore, any works conducted in this area are unlikely to have an impact on Dwarf Galaxias populations.

An EPBC Significant Impact assessment has been completed (Appendix G). The assessment indicates that the Project is unlikely to lead to significant adverse impacts to Dwarf Galaxias. See Appendix G for the significant impact criteria evaluation.







Ged. GDA2029 MGA Zone 35





Melbourne Water Corporation Lang Lang Creek Fishway -Design Review and Tender Assistance

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Date 7/11/2025

Native vegetation impacts FIGURE 4

# 6. Native vegetation removal

# 6.1 Planning and Environment Act 1987

The *Planning and Environment Act 1987* provides for local planning schemes which set out the way land may be used or developed. Local planning schemes contain state and local planning policies, zones and overlays and other provisions.

Clause 52.17 (Native Vegetation) of local planning schemes is a statewide provision which requires a permit to remove, destroy or lop native vegetation, including dead native vegetation, unless an exemption applies which removes the permit requirement.

A permit may not be required when:

- The removal of native vegetation is the result of the continuation of a lawful existing use for the purposes of Section 6(3) of the *Planning and Environment Act 1987*
- There is an exemption to the requirement for a permit for the purposes of Clause 52.16 or 52.17 of the planning schemes
- The native vegetation is listed in a schedule to Clause 52.17 within the relevant planning scheme

# 6.2 Exemptions from requiring a permit relevant to this project

There are two exemptions to permit requirements that are relevant to this project. The details of each exemption, and the application procedures for each are described in Sections 6.2.1 and 6.2.2.

The Conservation Works Exemption (section 6.2.1) afflows for the removal of native vegetation for the purpose of achieving conservation outcomes, without the purpose of achieving conservation outcomes, without the purpose of the planning permit or secure native vegetation offsets. To satisfy the criteria for this exemption, the purpose section offsets. To satisfy the criteria for this exemption, the purpose section of planning permit or secure native vegetation offsets. This copied document is the purpose section of the planning process as the purpose section of the purpose section of the planning process as the purpose section of the planning process as the purpose section of the purpose section of the planning process as the purpose section of th

The *Utility installations* exemption (Water Services Providers) (section 6.2.2) states that a permit is not required for the lopping, removal, or destruction of native vegetation to the minimum extent required:

- To maintain the safe and efficient function of a Minor utility installation
- By or on behalf of a utility service provider to maintain or construct a utility installation in accordance with the written agreement of the Secretary to the Department of Environment, Land, Water and Planning (as constituted under Part 2 of the Conservation, Forests, and Lands Act 1987)

# 6.2.1 Conservation Works Exemption

The purpose of the upgrades to the Lang River Fish Lock, as outlined in Section 5.1, is to allow for the passage of fish upstream of the weir, improving dispersal and breeding outcomes for threatened fish species such as the Australian Grayling. These positive impacts are discussed further in Section 5.3.2. These outcomes align with the stated objectives of the Conservation Works Exemption (DEECA 2021), specifically:

- Facilitating the dispersal and recolonisation of populations
- Restoration of wildlife habitat or populations

To utilise the Conservation Works Exemption, approval must be granted by the relevant DEECA office in the form of a written agreement to rely on the exemption. It should be noted that this exemption only applies to Clauses 52.16 and 52.17 of local planning schemes, and as a result the following may still apply:

- Permit requirements under planning scheme overlays
- Obligations under other pieces of legislation e.g. the Flora and Fauna Guarantee Act 1988

#### 6.2.1.1 Application procedure and requirements

If Melbourne Water choose to pursue the Conservation Works Exemption for this project, the following steps must be undertaken before the project can proceed further. Applicants must:

- 1. Consult with the Gippsland Natural Environment Program (NEP) team and obtain principal support for the project.
- 2. Prepare an application to rely on the conservation works exemption and submit to the Native Vegetation Regulation team, outlining how the project meets the following criteria:

Table 7 Application criteria for the Conservation Works Exemption

Number	Criterion	Relation to the project
1	The primary objective of the removal of native vegetation must be for an overall improvement to biodiversity.	As outlined in Section 5.1, the primary function of the proposed works is to improve the dispersal of fish species along the Lang Lang River. The works will result in positive outcomes for aquatic fauna, including threatened species such as the Australian Grayling, which is known to be present near the site.
2	Native vegetation removal must be to the minimum extent necessary to achieve the proposed conservation objective(s). All feasible steps must be taken to avoid and minimise impacts to non-target vegetation when executing works	The avoidance and minimisation measures described in Section 5.2 outline how site-specific measures have been taken to avoid potential impacts to native vegetation. A CEMP plan that includes weed mitigation measures and delineated no-go will be developed to minimise additional damage to native vegetation.
3	Date Prepared: 26	MATERIAL ton: T250 PD cies of native vegetation that will be impacted as well as Novemberthesir conservation status or classification as an the purpose native namental weed (Section 3.2) ye of this document you acknowledge the of the purpose native namental weed (Section 3.2) ye of this document you acknowledge the of the purpose native namental weed (Section 3.2) ye of this document you acknowledge ye of this document you acknowledge the purpose native namental weed (Section 3.2) ye of this document you acknowledge ye of this d
		<ul> <li>The total number of all large or hollow bearing trees that will be lost. As per the NVRR and Section 4.1 the proposed works will not impact any large or hollow-bearing trees.</li> <li>Negative impacts to wildlife. These impacts are discussed in detail in Section 5.3.2.</li> </ul>
4	A work plan must be provided which clearly outlines the proposed methodologies for removing native vegetation, which are based on sound ecological principles and/or standard treatment prescriptions. The work plan must cover the initial proposed action and any follow-up treatments required to maintain the conservation objective(s).	Mitigation measures, and the whole avoid and minimise approach, are expected to be written up in a Construction Environmental Management Plan (CEMP), to be implemented during the project. The contents of the CEMP are discussed further in Section 5.2.
5	If relevant, post treatment works must be described, including any monitoring activities aimed at evaluating project objectives and identifying any unintentional impacts on biodiversity values. Where required, a post-treatment plan must outline the triggers and scope of any follow-up actions involving native vegetation removal.	A post works plan will be required for the project. Such a plan should include:     Monitoring of the impacts of the fish lock on native aquatic fauna     Remediation and subsequent monitoring of native vegetation after construction, such as replanting and revegetation of the banks of Lang Lang River

### 6.2.2 Utility installations exemption

Melbourne Water has advised that the project would constitute low impact construction works, because the proposed removal of native vegetation is less than 0.5 hectares for the purpose of upgrading the existing Lang Lang Fishway. The Lang Lang Fishway is part of the weir at the Lang Lang River, and forms part of an existing utility installation. Melbourne Water may seek to rely on the *Procedure to rely on the utility installation exemption in planning schemes for water service providers* (DELWP 2020) for this project. Melbourne Water must obtain written agreement from the Secretary of DEECA to rely on the utility installations exemption. The following section describes the procedure and how it relates to this project.

#### 6.2.2.1 Purpose of the procedure

The utility exemption procedure outlines the requirements that water service providers must comply with if they have written agreement from the Secretary to DEECA to access the agreement. The utility exemption procedure applies only to utility installations under the direct management of the water service provider with written agreement from the Secretary to access the utility exemption. It exempts the requirement for a planning permit to remove native vegetation when removal is to the minimum extent necessary, and in accordance with the utility exemption procedure.

#### 6.2.2.2 Low impact construction works

Native vegetation removal for low impact construction must be to the minimum extent necessary. The requirements of the utility installations exemption must be complied with. Native vegetation offsets are required when native vegetation is removed.

Low impact construction works are defined as works that require the removal of less than 0.5 hectares of native vegetation carried out for:

- New builds
- Augmentation, improvement or upgrade work প্রভিটারী in an expanded footprint of utility installations
- Removal of Large trees

Construction works that require native vegetation removal of 0.5 hectal es or more are not covered by the utility installations exemption. These works require a planning permite circle above and

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The project involves the removal of a small extent of native vegetation and falls under the definition of low impact construction works as it involves augmentation, improvement, or upgrade works resulting an expanded footprint of a utility installation (the Lang Lang Weir).

A planning permit for the removal of 0.17 hectares of native vegetation is not required provided procedures outlined in the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines, Section 6.3) are followed and the Procedure is implemented. The Procedure to rely on the utility exemption requires an Exempt Project Endorsement Form to be submitted and approved by DEECA. A Guidelines assessment is provided below to include in the Endorsement Application Form.

# 6.3 The Guidelines for removal, destruction or lopping of native vegetation

The *Guidelines for the removal, destruction, or lopping of native vegetation* (the Guidelines) were incorporated into the Victorian Planning Provisions and all planning schemes in Victoria in December 2017 (DELWP 2017).

The purpose of the Guidelines is to guide how impacts on biodiversity should be considered when assessing an application for a permit to remove, destroy, or lop native vegetation. The Guidelines set out the rules and tools for how the responsible authority (DEECA) should consider biodiversity when assessing an application.

When native vegetation removal is permitted, an offset must be secured that achieves a no net loss outcome for biodiversity. To achieve this, the offset needs to contribute to Victoria's biodiversity so that it is equivalent to the contribution made by the native vegetation that was removed. Therefore, the type and amount of offset required depends on the native vegetation being removed and the contribution it makes to Victoria's biodiversity.

An offset statement that explains that an offset has been identified (and how it will be secured) will need to be included in the endorsement form for the removal of native vegetation for this project.

# 6.3.1 Assessment pathway

Applications to remove native vegetation are categorised into one of three assessment pathways with corresponding application requirements and decision guidelines. The assessment pathway for an application to remove native vegetation reflects its potential impact on biodiversity and is determined from the location and extent of the native vegetation to be removed (DELWP 2017a) [now DEECA].

The three assessment pathways recognised by DEECA are:

- Basic: limited impacts on biodiversity
- Intermediate: could impact on large trees, endangered EVCs, and sensitive wetlands and coastal areas
- Detailed: could impact on large trees, endangered EVCs, sensitive wetlands and coastal areas, and could significantly impact on habitat for rare or threatened species

The assessment pathway determines the information that is required to accompany an application to remove, lop, or destroy native vegetation. There are three location categories (Location 1, 2, and 3) that indicate the potential risk to biodiversity from removing a small amount of native vegetation and play a role in determining the assessment pathway. The higher category is used if the native vegetation proposed to be removed includes more than one location category. The process for determining the assessment pathway is demonstrated in Table 8. The project will follow the "intermediate assessment pathway" as the vegetation impact is <0.5 hectares and the study site falls within a Location Category 2.

An updated *native vegetation removal report* (NVRR) was generated by DEECA for the project on 10 June 2025 (Appendix E). The extent of impacts for the project calculated by DEECA included the clearance of 0.17 hectares of native vegetation. The NVRR confirmed the project would be assessed under the 'intermediate' assessment pathway as shown in Table 8.

Table 8 Risk matrix for determining the assessment pathway that an application to remove native vegetation will take

Evtent of notive vegetation		Location Category		
Extent of native vegetation	nia Location 1		Location 2	Location 3
< 0.5 hectares (ha) and not including ar	y large treesining Application: T250442 Basic		Intermediate	Detailed
< 0.5 hectares (ha) and including one o	more dangentrees to the purpose intermediate		Intermediate	Detailed
0.5 hectares (ha) or more	and agree that you will only use the document for the purpose specified above and that any dissemination, distribution or copying of this document that any dissemination, distribution or copying of this document that are		Detailed	Detailed

Note: the assessment pathway that any works would follow is dependent on the extent of native vegetation to be removed.

# 6.3.2 Unavoidable losses of native vegetation

It has not been possible to avoid all impacts to native vegetation. The unavoidable impacts associated with the project include the removal of 0.123 hectares of EVC 937 Swampy Woodland. An additional 0.047 hectares of EVC 937 Swampy Woodland may also be impacted which will be determined by the successful contractor postaward.

The vegetation proposed for removal also supports Restricted Use FFG Act protected flora species. However, an FFG Act Permit to take Protected Flora will **not** be required for incidental take of restricted use protected flora.

# 6.3.3 Offset requirements and availability

Offsets must be secured that meet specific criteria as outlined in the native vegetation removal report (NVRR) in Appendix E. The NVR report states that the following general habitat unit offsets are required for the combined native vegetation impact of 0.17 ha for the Project.

A total of 0.053 general habitat units (GHU) with a minimum strategic biodiversity value of 0.3464 (including no large trees) must be secured from the Port Phillip and Westernport Shire (Melbourne Water) Catchment Management Authority area or the Cardinia Shire Council area. No species-specific offsets are required.

Melbourne Water have an 'in house' offset bank and are proposing to source offsets for the project from their own offset bank. An offset availability statement is included in the planning permit application. This statement confirms that offset sites are available to meet the project requirements as of 10 July 2025 (Appendix F).

Under the Utility installations exemption procedure, offsets for this project must be secured **prior** to August 31 at the conclusion of the financial year in which the project has been endorsed.

# 7. Environmental policy and legislative implications

A summary of the likely legislative requirements, with regard to potential impacts on ecological values protected under State and/or Commonwealth legislation, is provided in Table 9. If any changes to the construction footprint are proposed, then this table should be reviewed and updated to confirm the requirement for any additional ecological permits and approvals.



Table 9 Summary of legislative implications and requirements

	Relevance to study site	Outcomes
Federal		
Environment Protection and Biodiversity Conservation Act 1999	Two Matters of National Environmental Significance (MNES) are potentially relevant to the study site: Threatened Species and a Ramsar Site	A referral to the Australian Government Minister for the Environment is required for any action/s that has, will have, or is likely to significantly impact an MNES.
	Threatened flora and ecological communities  No EPBC Act-listed threatened ecological communities are considered likely to be present.	Based on this assessment, the project is not expected to have a significant impact on any MNES provided recommended mitigation measures are implemented.
	No EPBC Act-listed threatened flora species are likely to occur within the study site.  Threatened and Migratory Fauna  Five species of terrestrial fauna listed as threatened, and three species of fauna listed as migratory are considered possible to occur in the study site.  Two listed fish species are considered possible to occur in the study site.  Ramsar Site  The study site is located within of International Importance (Ramsar site).  ADVERTISED MATERIAL  Planning Application: T250442  Date Prepared: 26 November 2025  This copied document is made available for the purpose of the planning set out in the Planning and Environment Act 1987. The information must used for any other purpose. By taking a copy of this document you acknow and agree that you will only use the document for the purpose specifies that any dissemination, distribution or copying of this document is strictly	
		No significant impacts on the Ramsar Site are expected to occur, as the works are expected to occur within the current modified area of the existing weir.
State		
Flora and Fauna Guarantee Act 1988	No flora species or communities listed as threatened under the FFG Act were identified during the site assessment.  One Restricted Use Protected Flora species was identified within the works footprint.  In addition to fauna considered under the EPBC Act, five FFG Act	No permit is required under the FFG Act for incidental take of Restricted Use Protected flora, provided efforts are taken to minimise impacts on FFG Act listed species.  No permit is required under the FFG Act for fauna, provided efforts are taken to minimise impacts on FFG Act listed species, such as reducing impacts on creek banks and avoid disturbances during
	threatened fauna species have the potential to occur within the study area.	Platypus breeding period and Dwarf Galaxias spawning from August to February.

	Relevance to study site	Outcomes
Environment Effects (EE) Act 1978	The Ministerial guidelines for assessment of environmental effects under the Environment Effects Act 1978 (EE Act) provide a range of criteria that determine whether an Environment Effects Statement (EES) would be required for a project (DSE 2006).  Many of the listed potential effects that may warrant a referral are related to flora and fauna. There are also other social, economic and other environmental factors that may require approval for the project.  There are two types of referral criteria: 1) individual potential environmental effects, where any one of the criteria would warrant an EE referral; and 2) a combination of potential environmental effects, where two or more criteria in concert would warrant an EE referral.  The ecological criteria most relevant to the project are those relating to impacts on native vegetation and threatened species.  Most relevant individual criterion:  Potential long-term loss of a significant proportion (e.g. 1 to 5 percent depending on the conservation status of the species) of known remaining habitat or population of a threatened species within Victoria  The project is unlikely to trigger a referral under the combination criterion as native vegetation impacts are not expected to except in a.	Based on the impacts outlined in Section 5.3.2, it is considered unlikely that any criteria under the EE Act will be triggered by the works.  As such, a referral to the Minister for Planning would not be required for this project.  However, avoid and minimise measures should be followed to reduce impacts to the impacted threatened species
Planning and Environment Act 1987 (P&E Act)	The Planning and Environment Act is addrassed in tised whate really of the Victorian Planning Provisions (VPP), which stipulates that esperalities required for the removal of na live vegetation and pleased the removal of applies. Vegetation Removal is also addressed through Local of the planning Government Planning Scheme Severilay Syanning and Environment Act 1987. The information must used for any other purpose. By taking a copy of this document you acknow and agree that you will only use the document for the purpose specified that any dissemination, distribution or copying of this document is strictly	A planning permit would be required under Clause 52.17 of the P & E Act for the removal of any native vegetation unless an exemption applies.  If Melbourne Water choose to seek approval to apply the melbourne works Exemption, they will require written sement from the DEECA Secretary before works can proceed.  Otherwise, Melbourne Water propose to undertake the works under the exemption for utility installation (see below).  A planning permit would be required under the Significant Landscape Overlay (SLO3) to remove, destroy or lop any vegetation. This overlay relates to biodiversity within Cardinia Shire Council Planning Scheme and relates to vegetation removal within the study site.
Procedure to rely on the utility exemption in planning schemes – Water service providers	Low impact construction works are defined as works that require the removal of less than 0.5 hectares of native vegetation carried out for:  Construction works that require native vegetation removal of 0.5 hectares or more are not covered by the utility installations exemption. These works require a planning permit.	Offsets to the value of 0.053 GHU with a minimum SBV of 0.3464 must be secured prior to August 31 at the conclusion of the financial year in which the project was endorsed.  This project requires the completion of the Exempt Project Endorsement Form to be submitted to DEECA prior to undertaking works.

	Relevance to study site	Outcomes
Conservation Works Exemption	The Conservation Works Exemption allows for the removal of native vegetation for the purpose of achieving conservation outcomes without the requirement to obtain a planning permit or secure native vegetation offsets.	<ol> <li>If Melbourne Water choose to apply to utilise the exemption, they will need to:</li> <li>Contact the Gippsland Natural Environment Program (NEP) team and gain approval to proceed with the application.</li> <li>Prepare the application request as per the requirements outlined in Section 6.2.1.</li> <li>Seek written approval from the Secretary to proceed with the works under the exemption.</li> </ol>
Guidelines for the removal, destruction or lopping of native vegetation (DELWP 2017) – the Guidelines	The location mapping for the study site identifies that the study site is classified as Location 2.  If this pathway is chosen by Melbourne Water, the project will follow the intermediate assessment pathway when being assessed under the Guidelines.	These works will follow the <b>intermediate</b> assessment pathway.  Offsets would be required and need to be secured from the Cardinia Shire Council or the Port Phillip and Westernport (Melbourne Water) Catchment Management Authority.
Catchment and Land Protection Act 1994	Five species listed under the CaLP Act were recorded within the study site.  Mitigation measures to prevent the introduction and spread of CaLP Act listed weed species (and any weed species) must be incorporated into the CEMP for any proposed works.	Under this Act, concerted efforts must be taken to avoid spreading or introducing weeds into or out of the study site.
Water Act 1989	A Works on Waterway (WoW) permit may be required for the removal of vegetation and stabilisation works such as bank protection, battering and retaining structures.	Confirmation from Melbourne Water as to whether a WoW permit is required is recommended.
Wildlife Act 1975	All native wildlife is protected in Victoria. It is an offence to kill, take, control or harm wildlife under the Act.	A Management Authorisation under the Act would be required whenever native terrestrial fauna need to be relocated during works (e.g. if fauna need to be removed from access areas during works). It is expected any fauna present within the impact footprint would move out on their own accord. However, if large trees/tree limbs with hollows and native vegetation outside of provided project area are expected to be removed, it is recommended that an ecologist inspects the habitat for wildlife immediately prior to construction.
Fisheries Act 1995	Potential for stranding of fish and other aquatic fauna during construction.	Should fish salvage be required during the construction phase a Fisheries Act 1995 permit to 'take' fish may be required.



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# 8. Conclusions and recommendations

The study site encompasses Lang River, the existing weir, and adjacent areas of both intact and modified native vegetation. As part of the project, vegetation and habitat were assessed in areas with the potential to be impacted by the proposed works, and two different habitat zones comprising patches of EVC 937 (Swampy Woodland) and EVC 125 Plains Grassy Wetland were identified. EVC 125 Plains Grassy Wetland was not identified in the initial 2018 assessment. This change reflects the differing conditions at the site in 2024, and the natural change in vegetation cover across this time period.

Despite efforts undertaken to avoid and minimise impacts on native vegetation during the project such as utilising the existing access track and turn around area for construction and ancillary areas (i.e. laydown areas), the required maintenance works will impact 0.123 hectares of native vegetation. An additional 0.047 hectares of native vegetation may be impacted upon. Post construction the offset obligations may be reconciled when the final extent of native vegetation impacts are confirmed by an accredited native vegetation assessor.

The proposed works may also impact upon five threatened fauna species, with three of these species listed under the EPBC Act and all five species listed under the FFG Act. Impacts on the habitat for these species can be largely avoided following the mitigation measures outlined in Section 5.

## 8.1 Recommendations

The following next steps are recommended for this project:

- Consider the two potential application pathways outlined in this report for the removal of native vegetation.
   MW may either:
  - Seek endorsement for the removal of 0.17 hectares of native vegetation from DEECA under the Conservation Works Exemption; OR
  - Seek endorsement for the removal of 0.17 hectares of native vegetation from DEECA under the
    Procedure to rely on the utility installation exemption in planning schemes Water service Providers
    (DELWP 2019). A total of 0.053 general habitat units (GHU) are triggered for this project with a minimum
    strategic biodiversity value score of 0.3464. These offsets must be sourced from within Port Phillip and
    Westernport (Melbourne Water) CMA or Cardinia Shire Council.
- Obtain confirmation from Port Phillip and Western Port CMA of the requirement for a Works on Waterway (WoW) permit.
- Prior to the works commencing, it is recommended that a Construction Environmental Management Plan (CEMP) is developed and implemented, by the successful contractor, for the project to document measures required to avoid and minimise impacts on ecological values.
- Include revegetation plan within the CEMP to restore vegetation and Southern Brown Bandicoot habitat along the northern bank of Lang Lang River.



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# Appendices



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# Appendix A

List of flora identified in the study site



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#### Key to Table:

en - Endangered under the FFG Act

GP Generally protected under the FFG Act 1988

RU Restricted use under the FFG Act – Listed as Regionally Controlled under the CALP Act

R – Listed as Restricted weed under the CALP Act

WONS - Weed of National Significance



#### Table A1 List of flora species identified in the study site

Scientific Name	Common Name	Status
Native Flora		
Acacia dealbata	Silver Wattle	
Acacia melanoxylon	Blackwood	Planted
Acacia verniciflua	Varnish Wattle	RU
Amyema pendula	Drooping Mistletoe	
Cassinia aculeata subsp. aculeata	Common Cassinia	
Coprosma quadrifida	Prickly Currant-bush	
Eucalyptus consideniana	Yertchuk	Planted
Eucalyptus radiata subsp. radiata	Narrow-leaf Peppermint	Planted
Eucalyptus globulus	Southern Blue-gum	Planted
Eucalyptus leucoxylon	Yellow Gum	Planted
Eucalyptus polyanthemos	Red Box	Planted
Eucalyptus sideroxylon subsp. sideroxylon	Mugga	Planted, en
Eucalyptus spp.	Eucalypt	Planted
Eucalyptus viminalis subsp. viminalis	Manna Gum	Planted
Euchiton involucratus s.l.	Common Cudweed	
Juncus spp.	Rush	
Leptospermum continentale	Prickly Tea-tree	
Lythrum hyssopifolia	Small Loosestrife	
Melaleuca ericifolia	Swamp Paperbark	Planted
Microlaena stipoides var. stipoides	Weeping Grass	
Olearia argophylla	Musk Daisy-bush	RU
Olearia lirata	Snowy Daisy-bush	RU
Persicaria decipiens	Slender Knotweed	
Phragmites australis	Common Reed	
Rumex brownii	Slender Dock	
Introduced Flora		
Bromus catharticus	Soft Brome	
Cirsium vulgare	Spear Thistle	С
Crataegus monogyna	Hawthorn	С
Cynodon dactylon var. dactylon	Couch	

Scientific Name	Common Name	Status
Cyperus eragrostis	Drain Flat-sedge	
Dactylis glomerata	Cocksfoot	
Daucus carota	Wild Carrot	
Ehrharta longiflora	Annual Veldt-grass	
Ehrharta erecta	Panic Veldt-grass	
Erigeron bonariensis	Flaxleaf Fleabane	
Fumaria spp.	Fumitory	
Galium aparine	Cleavers	
Hypochaeris radicata	Flatweed	
Leontodon saxatilis subsp. saxatilis	Hairy Hawkbit	
Lycium ferocissimum	African Boxthorn	C, WoNS
Malva spp.	Mallow	
Oxalis pes-caprae	Oxalis	R
Paspalum dilatatum	Paspalum	
Plantago lanceolata	Ribwort	
Rubus anglocandicans	Blackberry	C, WoNS
Rumex crispus	Curled Dock	
Solanum nigrum	Blackberry Nightshade	
Sonchus oleraceus	Milk Thistle	
Sisymbrium officinale	Hedge Mustard	
Stellaria pungens	Chickweed	
Symphyotrichum subulatum	Wild Aster	
Vinca major	Blue periwinkle	
Trifolium spp.	Clover	



# Appendix B

Likelihood of occurrence – threatened flora



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#### Key to table:

**EPBC: Environment Protection and Biodiversity Conservation Act** 

VU Vulnerable EN Endangered

CR Critically Endangered

#### FFG: Flora and Fauna Guarantee Act

vu Listed as Vulnerable

en Listed as Endangered

cr Listed as Critically Endangered

#: Non-indigenous native species outside its natural range

#### Source:

VBA Victorian Biodiversity Atlas

PMST Protected Matters Search Tool

#### Likelihood of occurrence:

Not all threatened species identified during this assessment are equally likely to occur in the project site, due to the geographic location or context of the site, or the habitat type and condition. For each species, the likelihood of occurrence was evaluated using the following rationale:

PRESENT - Species known to occur within the study site or detected during the site visit.

**POSSIBLE** – Potentially suitable habitat occurs within study site and species' known range encompasses the study site. Species recorded historically within the study area (but not the actual study site, and not identified during field surveys), generally within the last 30 years.

**UNLIKELY** – Species' known range encompasses the study site, but suitable habitat is not present or is not likely to be present. Species may or may not have been recorded historically within the study area but generally not within the last 30 years, and not within the actual study site.

**HIGHLY UNLIKELY** – No historical records of the species within 10 km of the study site and/or no suitable habitat within the study site.



Table B1 Likelihood of occurrence – Threatened flora

Scientific Name	Common Name	EPBC	FFG	Source	Count of Sightings	Last Record	Habitat	Likelihood of occurrence
Acacia leprosa var. uninervia	Large-leaf Cinnamon- wattle		en	VBA	1	2005	Locally common Eucalyptus forest in ranges north-east of Melbourne (Healesville, Powelltown, Buxton) and near Mt Buffalo, with scattered occurrences west towards Ballarat.	Highly Unlikely. Few recent records and areas of suitable habitat are highly degraded. Was not observed during the site assessment.
Amphibromus fluitans	River Swamp Wallaby- grass	VU		PMST			Grows mostly in permanent swamps and lagoons, billabongs, dams, and roadside ditches. The species requires moderately fertile soils with some bare ground; conditions that are caused by seasonally fluctuating water	Unlikely. No recent records and areas of suitable habitat are highly degraded. Was not observed during the site assessment.
Billardiera scandens s.s.	Velvet Apple-berry		en  This copie set out in it used for a and agree that any di	ADVERTIS Planning Ap	rqinia ED MATERIA Dication: T250442 1: 26 November 202 the for the purpose of the acupy of this documen ocument for the purpose copying of this document	5	Apparently uncommon in Victoria, occurring chiefly in dry open-forests and woodlands in the north-east, with isolated occurrences near Eltham, Mt. Macedon, Hurstbridge, Eildon and Orbost (Walsh & Entwisle 1996).	Unlikely. No recent records and areas of suitable habitat are highly degraded. Was not observed during the site assessment.
Caladenia aurantiaca	Orange-tip Finger- orchid		en	VBA	1	2019	Grows in damp coastal to near-coastal heaths or open woodlands east of Melbourne (Walsh & Entwisle 1996).	Unlikely. Very few recent records and suitable habitat is not present within the study site.
Caladenia oenochila	Wine-lipped Spider- orchid		cr	VBA	1	1932	Currently recorded mainly from the foothills of the ranges to the north and east of Melbourne, with isolated occurrences in western parts of the state. Grows in shaded situations in more mesic heathy woodlands and open forests on sand and clay loams that are fairly well drained (Backhouse and Jeanes, 1995).	Highly unlikely. No recent records and suitable habitat is not present within the study site.

Scientific Name	Common Name	EPBC	FFG	Source	Count of Sightings	Last Record	Habitat	Likelihood of occurrence
Caladenia orientalis	Eastern Spider Orchid	EN		PMST			Endemic to Victoria where found in coastal heathlands and heathy woodlands between the Mornington Peninsula and Yarram, on well-drained sandy soil.	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Caladenia tessellata	Thick-lipped Spider- orchid	VU		PMST			Occurs in coastal areas east from Port Phillip Bay, growing in heath, heathy woodland and lowland forest. There is some doubt over the identity of this species (Jeanes and Backhouse 2006).	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Corybas aconitiflorus	Spurred Helmet-orchid		en	ADVERTIS Planning Ap	2 rdinia ED MATERIA		Localised and uncommon in Victoria (Healesville and Tonimbuk areas, Corner Inlet, Bippsland Lakes area, Marlo). Colonies grow in sheltered positions, often on damp sand Inder ferns or shrubs (Walsh & Entwisle 1994).	Unlikely. Few recent records and areas of suitable habitat are highly degraded. Was not observed during the site assessment.
Dianella amoena	Matted Flax-lily	EN	This copie set out in t used for ar and agree that any di	PMSate Prepared document is made availal e Planning and Environm y other purpose. By taking that you will only use the di ssemination, distribution or	: 26 November 202	planning process a ation must not be you acknowledge specified above and t is strictly prohibited	Grasslands and grassy woodlands (Walsh & Entwisle 1994).	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Eucalyptus strzeleckii	Strzelecki Gum	VU		PMST			Apparently endemic, confined to across the western section of Strzelecki Range, from Neerim South in the north, south to Foster, Favours ridges, slopes and streambanks and deep fertile soils (Walsh & Entwisle 1996).	Highly unlikely. No recent records and was not observed during the site assessment
Glycine latrobeana	Clover Glycine	VU		PMST			Widespread but of sporadic occurrence and rarely encountered. Grows mainly in grasslands and grassy woodlands. (Walsh and Entwisle 1996).	Highly unlikely. No recent records and suitable habitat is not present within the study site.

Scientific Name	Common Name	EPBC	FFG	Source	Count of Sightings	Last Record	Habitat	Likelihood of occurrence
Lepidium aschersonii	Spiny Peppercress	VU		PMST			Mostly on heavy clay soil near salt lakes on volcanic plain, but with outlying records from near lake Omeo (Walsh & Entwisle 1996).	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Microtis orbicularis	Swamp Onion-orchid		en	VBA	1	1915	This semi-aquatic species often flowers in shallow water around the margins of swamps. It occurs in southwest Victoria (e.g. Portland, Grampians, Little Desert) and east of Melbourne on French Island, Wonthaggi area (where possibly now extinct) and Wilsons Promontory.	Highly unlikely. No recent records and species is considered to be likely extinct in the areas around the study site.
Prasophyllum spicatum	Dense Leek-orchid	VU		PMST Ca	C ardinia		Localised across southern Victoria in coastal heathland and near-coastal heathy forest on sandy soils.	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Pterostylis chlorogramma	Green-striped Greenhood	VU	This copies set out in tused for ar and agree that any di	Planning Ap	plication: T250442 2 26 November 202 ble for the purpose of the ent Act 1987. The inform a copy of this documen ocument for the purpose copying of this documen	5  planning process a	Occurs across southern Victoria, growing in heathy Woodland. Recorded for few locations, but probably more widespread than current lecords suggest (Jeanes and Backhouse 2006).	Unlikely. Few recent records and areas of suitable habitat are highly degraded. Was not observed during the site assessment.
Pterostylis cucullata	Leafy Greenhood	VU		PMST			Widespread across southern Victoria, and extending into montane areas of the Eastern Highlands and East Gippsland. Grows in closed scrublands on the landward slopes, swales and tops of coastal sand dunes. Also grows in open forests on moist slopes, on seasonally inundated inland river flats, and in other riparian habitats. On the coast it grows in deep, well-drained sandy loams while inland it favours heavier sandy loams (Backhouse & Jeanes 1995).	Highly unlikely. No recent records and suitable habitat is not present within the study site.

Scientific Name	Common Name	EPBC	FFG	Source	Count of Sightings	Last Record	Habitat	Likelihood of occurrence
Pterostylis grandiflora	Cobra Greenhood		en	VBA	1	1994	Grows in shaded situations in open forests, often among small shrubs, grasses and bracken. Substrates are generally well-drained sand and clay loams (Backhouse & Jeanes 1995).	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Senecio psilocarpus	Swamp Fireweed	VU		PMST			Rare in Victoria, restricted to a herb-rich few winter-wet swamps south and west from c. Ballarat, growing on volcanic clays or peat soils (Walsh and Entwisle 1999).	Highly Unlikely. No recent records and areas of suitable habitat are highly degraded. Was not observed during the site assessment.
Thelymitra epipactoides	Metallic Sun-orchid	EN	This copieset out in tused for an and agree	ADVERTIS Planning App	rdinia ED MATERIA plication: T250442 26 November 202! le for the purpose of the int Act 1987. The informa copy of this document current for the purpose	5	Usually found in coastal and hinterland areas west from Bairnsdale, but extending well nland in the far-western part of the state. Grows primarily in mesic coastal heathlands, grasslands and woodlands, but is also found in drier inland heathlands, open forests and woodlands. Substrates may be moist or dry sandy loams Backhouse & Jeanes 1995).	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Thelymitra malvina	Mauve-tuft Sun-orchid		en	VBA	1	1995	Apparently favours tall open forests that have a heathy understorey, and also found in heathy woodlands. Soils are well-drained sand and clay loams (Backhouse & Jeanes 1995).	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Thelymitra orientalis	Hoary Sun-orchid	CR		PMST			Grows in damp heathy flats and seepage areas usually in peaty white sands (Jeanes 2014).	Highly unlikely. No recent records and suitable habitat is not present within the study site.
Thesium australe	Austral Toadflax	VU		PMST			Apparently confined to the drier north-west of the State where it grows along seasonal watercourses, floodplains and depressions. (Walsh & Entwisle 1996).	Highly unlikely. No recent records and suitable habitat is not present within the study site.

Scientific Name	Common Name	EPBC	FFG	Source	Count of Sightings	Last Record	Habitat	Likelihood of occurrence
Xerochrysum palustre	Swamp Everlasting	VU		PMST			Occurs in lowland swamps, usually on black cracking clay soils (Walsh and Entwisle 1999).	Unlikely. No recent records and areas of suitable habitat are highly degraded. Was not observed during the site assessment.



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# Appendix C

Likelihood of occurrence – threatened fauna



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#### Key to Table:

EPBC Act Codes: VU (Vulnerable), EN (Endangered), CR (Critically Endangered)

FFG Act Codes: vu (Vulnerable in Victoria), en (Endangered in Victoria), cr (Critically Endangered in Victoria), thr (threatened in Victoria)

#### Source

VBA Victorian Biodiversity Atlas
PMST Protected Matters Search Tool

VBA recs: Number of records within 10 km of the study site

VBA last: Year of last record within 10 km of the study site

#### Likelihood of occurrence:

**PRESENT** – Species known to occur within the site or detected during the site visit.

**POSSIBLE** – Potentially suitable habitat occurs within study site and species' known range encompasses the study site. Species recorded historically within 10 km of the study site, and generally within the last 30 years

**UNLIKELY** – Species' known range encompasses the study site, but suitable habitat does not occur within study site, or occurs within study site but with generally low quality and quantity.

**HIGHLY UNLIKELY** – No historical records of the species within 10 km of the study site and/or no suitable habitat within the study site.



Table C1 Likelihood of occurrence – Threatened fauna

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Mammals	·				'				
Broad-toothed Rat	Mastacomys fuscus mordicus	EN	vu	0		PMST	Wet sedges and grasslands in forested areas, from alpine areas to sea level.	Highly Unlikely	No records in study area and no suitable habitat.
Southern Greater Glider	Petauroides volans	EN	vu	0		PMST	Eucalypt-dominated low open forests on coast, tall forests and low woodland.	Highly Unlikely	No records in study area and no suitable habitat.
Grey-headed Flying-fox	Pteropus poliocephalus	VU	vu	0		PMST	Densely vegetated flowering and fruiting trees, mainly east of	Possible	No records within the study area, however
		This copied docum set out in the <i>Plann</i> used for any other and agree that you that any disseminal	ADVERT Planning Date Prepa	Cardinia ISED MA Application: T2 red: 26 Novem	50442 per 2025	ming process as must not be acknowledge iffled above and trictly prohibited.	Melbourne. Roosts in dense gullies. Uses a wide range of habitats in Victoria, from lowland rainforest and coastal Stringybark forests to agricultural land and suburban gardens. Established colonies known in Melbourne, Geelong, Bendigo and Mallacoota.		under-reported species that may occasionally forage within flowering eucalypts within the study site.
Long-nosed Potoroo	Potorous tridactylus trisulcatus	VU	Vu	0		PMST	Uses a range of habitats from dense heathy woodland and coastal woodland to open forests, typically dominated by eucalypts. Six populations occur in certain parts of Victoria.	Highly Unlikely	No records and no suitable habitat. Species range is restricted to discrete areas within Victoria.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
New Holland Mouse	Pseudomys novaehollandiae	VU	en	0		PMST	Fire dependent. Inhabits a variety of habitats along the coast of southeastern Australia, including coastal heath, sclerophyll forest, heathy woodland and coastal scrub habitats, usually with a high density of leguminous ground plants.	Highly Unlikely	No records in study area and no suitable habitat.
Platypus	Ornithorhynchus anatinus	This copied docu set out in the Pla used for any othe and agree that yc that any dissemir EN	ADVERT Planning	ardinia ISED MA Application: Tired: 26 Novem	2 <b>5</b> 0442 ber 2025	VBA	Creeks, streams and rivers.	Possible	Species recorded within study site (ALA 2024). VBA record within Lang Lang River, approximately 13km east of study site.
Smoky Mouse	Pseudomys fumeus	that any dissemir	en	or copying of thi	s document is s	PMST	Dry heathy forest on ridges. Coastal and sub-alpine heath.	Highly Unlikely	No records in study area and no suitable habitat.
Southern Brown Bandicoot	Isoodon obesulus obesulus	EN	en	153	2021	VBA, PMST	Typically occurs in heathland, shrubland, heathy forest and woodland, and coastal scrub habitat across southern Victoria. Survival with foxes requires dense understorey vegetation.	Possible	Species recorded in within creekline vegetation approximately 2 km southwest of study site. Habitat connectivity between record and study site.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Spot-tailed Quoll	Dasyurus maculatus maculatus	EN	en	0		PMST	Preference for mature wet forest habitat that has been less disturbed by logging. Also occurs in wet sclerophyll forests, lowland forests, open and closed eucalypt woodlands, inland riparian and River Red-gum forests Woodlands, subalpine woodlands and coastal heathlands.	Highly Unlikely	No records in study area and no suitable habitat.
Swamp Antechinus	Antechinus minimus maritimus		ADVERTI Planning <i>I</i> Date Prepar	o Cardinia  SED MAT  Application: T2 ed: 26 Novemb  liable for the purpment Act 1987. The gardy of this coopy of this coopying of this or copying of this	50442 er 2025	PMST hing process as nust not be cknowledge field above and rictly prohibited.	Wet areas with dense closed ground cover. Typically in wet heath, heathy woodland, sedgeland and dense tussock grassland, usually at low elevation.	Highly Unlikely	No records in study area and no suitable habitat.
White-footed Dunnart	Sminthopsis leucopus		vu	1	2012	VBA	Heathy woodlands and forest, coastal scrub and dune grassland.	Unlikely	Species records occur within large areas of contiguous forest. Limited suitable habitat and connectivity to study site from surrounding areas of suitable habitat.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Yellow-bellied Glider	Petaurus australis	VU	en	0		PMST	Tall forest, coastal gullies, creek flats and forest mixed with woodland.	Highly Unlikely	No records in study area and no suitable habitat.
Birds									
Australasian Bittern	Botaurus poiciloptilus	EN	Cr	0		PMST	Wetlands with tall, dense vegetation in permanent freshwater habitats, particularly when dominated by sedges, rushes and reeds. Also uses rice paddocks in north.	Highly Unlikely	No records in study area and no suitable habitat.
Australian Painted Snipe	Rostratula australis	This copied docun set out in the Plan used for any other and agree that you that any dissemina	Planning A Date Prepai nent is made availing and Enviror purpose. By tak a will only use the	ardinia SED MAT Application: T2 red: 26 Noveml aliable for the purpment Act 1987. T ing a copy of this e document for the or copying of this	ber 2025  dose of the planthe information document you purpose spec	PMST  ming process as must not be acknowledge affed above and strictly prohibited.	Generally in shallow, terrestrial freshwater wetlands with rank, emergent tussocks of grass, sedges and rushes. Occurs in well vegetated lakes, swamps, inundated pasture, saltmarsh and dams. Fresh to saline water. May use riverine forest.	Highly Unlikely	No records and limited suitable habitat along edges of Lang Lang River.
Bar-tailed Godwit	Limosa lapponica	VU	vu	0		PMST	Non-breeding migrant to Australia during the austral summer. Mudflats, sandflats, estuaries, large wetlands. Coastal, but occasionally inland.	Highly Unlikely	No records in study area and no suitable habitat.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Blue-winged Parrot	Neophema chrysostoma	VU		9	1986	VBA, PMST	Inhabits a range of habitats from coastal, sub-coastal and inland areas, through to semi-arid zones. Tends to favour grasslands and grassy woodlands and often found near wetlands both near the coast and in semi-arid zones. Breeds in Tasmania, coastal south-eastern South Australia and southern Victoria.	Unlikely	No recent records and no suitable habitat.
Brown Treecreeper	Climacteris picumnus picumnus	VU		0		PMST	Forests and woodlands, mainly in drier areas. Occurs mainly on southern watershed of Great Dividing Range, and along a narrow intergrade on the northern and western slopes, in a rough line from the Grampians, through Maryborough and to Albury.	Highly Unlikely	No records in study area and no suitable habitat.



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Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Caspian Tern	Hydroprogne caspia		vu	1 Cardinia	1979	VBA	Coastal areas and large inland wetlands and rivers. Exposed ocean beaches, sheltered coastal bays, harbours, lagoons, inlets, estuaries, usually with sandy or muddy margins. Breeds in a variety of coastal habitats including banks, ridges and beaches of sand and shell, often in open or among low or sparse vegetation.	Unlikely	No recent records and no suitable habitat.
Common Greenshank	Tringa nebularia	This copied docume set out in the Plannus do rany other pand agree that you that any disseminat	Planning A Date Prepar ent is made avaing and Environa burpose. By tak will only use the	Application: T2 red: 26 November 1 Act 1987. Tiling a copy of this of document for the	50442 per 2025 pse of the plante information in the purpose specific purpose specific per specific purpose s	cknowledge fied above and	Non-breeding migrant to Australia during the austral summer. Coastal mudflats, estuaries, salt marshes, mangroves, lakes and swamps.	Highly Unlikely	No records in study area and no suitable habitat.
Common Sandpiper	Actitis hypoleucos		vu	0		PMST	Non-breeding migrant to Australia during the austral summer. Uses a wide variety of coastal and inland wetlands with muddy margins, including lakes, rivers, sewage ponds.	Highly Unlikely	No records in study area and no suitable habitat.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Curlew Sandpiper	Calidris ferruginea	CR	Cr	1	1979	VBA, PMST	Non-breeding migrant to Australia during the austral summer. Regular visitor to Victoria. Occurs in a variety of wetland habitats with fringing mudflats including bays, coastal lagoons, lakes, swamps, creeks, inundated grasslands, saltmarshes and artificial wetlands.	Unlikely	Species more commonly recorded in coastal environments. No recent records and no suitable habitat.
Diamond Firetail	Stagonopleura guttata	VU	vu	0		PMST	Occurs in eucalypt, acacia or casuarina woodlands, open forests and other lightly timbered habitats, including farmland and grassland with scattered trees. Prefers areas with relatively low tree density (including few large logs and litter cover) but a high grass cover. Generally absent from very wet and very dry areas.	Highly Unlikely	No records in study area, with species not recorded within central Gippsland region.



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Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Eastern Curlew	Numenius madagascariensis	CR	cr	2	1979	VBA, PMST	Non-breeding migrant to Australia during the austral summer. Coastal. Sheltered coastal habitats, usually with large sand flats or intertidal mudflats with seagrass, estuaries, open sandy beaches. Occasionally on coastal rock platforms.	Unlikely	Species more commonly recorded in coastal environments. No recent records and no suitable habitat.
Eastern Great Egret	Ardea alba modesta		vu	2	2018	VBA	Saltwater and freshwater wetlands, lakes, dams, river margins, estuaries and mudflats.	Possible	Species frequently recorded within study area within creeks and drainage lines. Limited suitable habitat present within creek margins.
Fairy Tern	Sternula nereis	VU	cr	0		PMST	Coastal areas. Inhabits coastal environments including intertidal mudflats, sand flats and beaches. Nests above high-water mark on sandy shell- grit beaches.	Highly Unlikely	No records in study area and no suitable habitat.



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Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Gang-gang Cockatoo	Callocephalon fimbriatum	EN		7 Cardinia	1981	VBA, PMST	Tends to frequent tall forests and woodlands with dense shrubby understoreys in the mountains during the summer breeding period. In winter, tends to move to lower altitudes into drier, more open forests and woodlands. Often seen by roadsides and in parks and gardens of urban areas. Requires tall trees for nest hollows.	Possible	Species recorded within study area in 2023 (BirdLife Australia 2024). Species may forage within eucalypts and acacias within study site.
Greater Sand Plover	Charadrius leschenaultii		Planning A Date Prepar	SED MAT Application: T2 red: 26 Novemb ilable for the purp ment Act 1987. TI is a copy of this or copying of this	50442 er 2025	PMST  Ining process as must not be acknowledge iffed above and trictly prohibited.	Non-breeding migrant to Australia during the austral summer. Coastal. Exposed sandflats and mudflats, estuaries, open sandy beaches. High tide roost sites are often located on beaches.	Highly Unlikely	No records in study area and no suitable habitat.
Grey Falcon	Falco hypoleucos	VU	vu	0		PMST	Inland wooded watercourses and woodland. Generally rare.	Highly Unlikely	No records and no suitable habitat. Species more likely to occur within semi-arid and arid environments.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Hardhead	Aythya australis		vu	2	2017	VBA	Diving duck. Deep permanent wetlands, dams, lakes and slow-flowing rivers. Also occurs in brackish wetlands and water storage ponds. Occasionally in estuarine and littoral habitats such as saltpans, coastal lagoons and sheltered inshore waters.	Possible	Species may utilise Lang Lang River and adjacent banks for foraging or roosting.
Hooded Robin	Melanodryas cucullata	EN (south-eastern subspecies)  This copied docume set out inte Plann used for any other pand agree that you that any disseminat	Planning Date Prepar	ardinia SED MAT Application: T2 red: 26 Novem inable for the purpment Act 1987. T ing a copy of this el document for the or copying of this	50442 ber 2025	PMST  hing process as must not be acknowledge iffed above and trictly prohibited.	Prefers lightly wooded country, usually open eucalypt woodland, acacia scrub and mallee, often in or near clearings or open areas. Requires structurally diverse habitats featuring mature eucalypts, saplings, some small shrubs and a ground layer of moderately tall native grasses. Often perches on low dead stumps and fallen timber or on low-hanging branches, using a perch-and-pounce method of hunting insect prey.	Highly Unlikely	No records and no suitable habitat.
King Quail	Synoicus chinensis		en	3	1901	VBA	Dense heaths and grasslands.	Highly Unlikely	Species known to occur only on French Island, Victoria.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Latham's Snipe	Gallinago hardwickii	VU		2	2006	VBA, PMST	Non-breeding migrant to Australia during the austral summer. Uses a wide variety of permanent and ephemeral wetlands, generally freshwater wetlands with cover. Also recorded along creeks, rivers and floodplains. Forages in soft mud at edge of wetlands and roosts in a variety of vegetation around wetlands including tussock grasslands, reeds and rushes, tea-tree scrub, woodlands and forests.	Possible	Limited suitable habitat present along creek bank margins, within and adjacent to study site.
Little Egret	Egretta garzetta nigripes		en	3	1998	VBA	Uses wide range of wetlands, mudflats, estuaries. Typically prefers shallows of wetlands for foraging. Occasionally in small waterways or wet grassland areas.	Possible	Recent records within coastal areas, approximately 15 km southwest of study site. Limited suitable habitat present along creek bank margins.



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Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Musk Duck	Biziura lobata		vu	2	1981	VBA	Diving duck. Deep open water in wetlands, dams, lakes and slow- flowing rivers.	Possible	Recent records within coastal areas, approximately 15 km southwest of study site. Species may occur within slow flowing section of creek, upstream of study site.
Orange-bellied Parrot	Neophema chrysogaster	CR	cr	1	1890	VBA, PMST	Winter migrant to coastal Victoria and South Australia from	Highly Unlikely	No recent records and no suitable
		This copied docums set out in the Plann used for any other and agree that you that any disseminat	Planning A Date Preparent is made avaing and Environ burpose. By take will only use the	ardinia SED MAT Application: T2 red: 26 Noveml allable for the purpment Act 1987. T ing a copy of this e document for the or copying of this	50442 Der 2025 Ose of the plan the information document you a	ning process as must not be acknowledge 请ed above and trictly prohibited.	breeding areas in south-west Tasmania. Forages in coastal or near-coastal areas such as saltmarshes, coastal dunes, pastures, shrublands, estuaries, islands and beaches.	L Kadaka Hadilaaha	habitat.
Painted Honeyeater	Grantiella picta	VU	vu	0		PMST	Dry open forests and woodlands, strongly associated with mistletoe (including mistletoe in Acacia).	Highly Unlikely	No records and no suitable habitat.
Pilotbird	Pycnoptilus floccosus	VU	vu	0		PMST	Wet eucalypt and temperate rainforest, alpine and coastal woodland in dense undergrowth with abundant debris.	Highly Unlikely	No records and no suitable habitat.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Plains-wanderer	Pedionomus torquatus	CR	СГ	1	1930	VBA, PMST	Inhabit sparse native grasslands and are often absent from areas where grass becomes too dense or too sparse. They nest amongst native grasses and herbs, or sometimes amongst crops, feeding on a mixture of seeds, invertebrates and leaves.	Highly Unlikely	No records and no suitable habitat.
Red Knot	Calidris canutus	VU	en	0		PMST	Non-breeding migrant to Australia during the austral summer. Coastal. Typically occurs on intertidal mudflats, sandflats and sandy beaches of sheltered coasts, and a range of other coastal and near-coastal environments such as lakes, lagoons, pools and pans, sewage ponds and saltworks. Inland lakes and swamps less commonly used.	Highly Unlikely	No records and no suitable habitat.



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Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Regent Honeyeater	Anthochaera phrygia	CR	cr	0		PMST	Open forests and woodlands. Generally absent from very wet and very dry areas. Dry woodlands and forests dominated by Box Ironbark eucalypts. May be restricted to the Chiltern-Mt Pilot National Park (NE Victoria) following population decline and range contraction.	Highly Unlikely	No records and no suitable habitat.
Sharp-tailed Sandpiper	AD\		Planning Date Preparent is made available	o Cardinia SED MA1 Application: T2 ed: 26 Noveml ilable for the purpment Act 1987. The accopy of this	50442 ber 2025	PMST  ming process as must not be a must not be a must not be airlied above and trictly prohibited.	Non-breeding migrant to Australia during the austral summer. Regular visitor to Victoria. Prefers muddy edges of shallow fresh or brackish wetlands with inundated or emergent low vegetation.	Highly Unlikely	No records and no suitable habitat.
Southern Whiteface	Aphelocephala leucopsis	VU		0		PMST	Inhabits a wide range of open woodlands and shrublands where there is an understorey of grasses or shrubs, or both. These areas are usually in habitats dominated by acacias or eucalypts on ranges, foothills and lowlands, and plains.	Highly Unlikely	No records and no suitable habitat.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Swift Parrot	Lathamus discolor	CR	СГ	0		PMST	Winter migrant to Victoria (and other parts of SE Australia) from breeding areas in Tasmania. In Victoria, prefers dry, open eucalypt forests and woodlands, especially Box Ironbark Forest in north-central Victoria. Occasionally recorded in urban parks, gardens, street trees and golf courses with flowering ornamental trees and shrubs.	Unlikely	No records in the study area. Limited suitable habitat within planted vegetation.
White-throated Needletail	Hirundapus caudacutus	VU	vu	1	1981	VBA, PMST	Almost exclusively aerial within Australia, occurring over most types of habitat, particularly wooded areas. Less often seen over open farm paddocks but has been recorded in vineyards flying between the rows of trees.	Possible	Recent records in the study area, with latest record in 2020 (eBird 2024).



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Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Reptiles		<u> </u>							
Lace Monitor	Varanus varius		en	10	2019	VBA	Partly arboreal. Occurs in well- timbered areas, from dry woodland to southern temperate forests. Lays eggs in hollows.	Unlikely	Records concentrated within Adams Creek Nature Conservation Reserve, south of the study site. No habitat connectivity between study site and records.
Swamp Skink	Lissolepis coventryi	EN	en	0		PMST	Swamp scrub habitat in cool, temperate, low-lying areas, including wetlands, river margins, lakes, swamp margins and estuarine areas with a dense shrub layer, particularly in near- coastal areas across southern Victoria. Often associated with stands of paperbark and tea- tree, usually in heathy or scrubby areas.	Highly Unlikely	No records and no suitable habitat.



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Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Frogs									
Growling Grass Frog	Litoria raniformis	VU	ADVERT	ardinia		VBA, PMST	Requires a matrix of well-connected permanent and semi-permanent waterbodies, including open vegetated wetlands, flooded paddocks, drains, farm dams and river pools, generally containing abundant submerged and emergent vegetation with little shade. Within lowland grasslands, woodlands and open forests.	Unlikely	No records within Lang Lang River tributaries and waterbodies. Study site does not provide suitable aquatic habitat.
Southern Toadlet	Pseudophryne semimarmorata	This copied docur set out in the <i>Plan</i> used for any other and agree that over that any disseminates that any disseminates the set of the set o	Date Prepa nent is made ava ning and Environ purpose. By tak u will only use th	red626 Novem ailable for the purp inhent Act 1987. T king a copy of this e document for th	ber 20253  cose of the plan  the information document you e purpose spec	must not be acknowledge cified above and	Moist soaks, depressions, dams and watercourses in woodland and open forest and heathlands, with sufficient litter or other ground cover. Adults shelter beneath leaf litter and other debris. Eggs and tadpoles develop in depressions that flood following autumn rains.	Unlikely	Recent records in Adams Creek Nature Conservation Reserve. No suitable habitat present within study site.

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Fish	·		'		'				
Australian Grayling	Prototroctes maraena	VU	en	12	2023	VBA, PMST	A diadromous species which spends most of its life in freshwater habitats, typically rivers and streams with cool, clear waters and gravel substrates, but occasionally also in turbid waters.  Juveniles inhabit estuaries and coastal seas.	Present	The Lang Lang River weir has restricted passage for the species upstream. Present downstream of the weir.
Dwarf Galaxias	Galaxiella pusilla	This copied docums set out in the Plann used for any other pand agree that you that any disseminat	Planning A Date Prepair ent is made avairing and Enviror burpose. By tak will only use the	ing a copy of this e document for the	ber 2025  dese of the plan he information document you be purpose spec	acknowledge ified above and	Relatively shallow, still or slow-flowing waterbodies, including streams, wetlands, drains, that often are ephemeral and partially dry up over summer. Typically requires abundant marginal and aquatic vegetation.	Possible	Galaxias have been found throughout the Lang Lang catchment - with a 2008 record approximately 2 km upstream from the Lang Lang River weir.
Yarra Pygmy Perch	Nannoperca obscura	EN	vu	0		PMST	Typically occurs in lakes, ponds and slow-flowing rivers (Saddlier & Hammer 2010), but prefers small-medium sized, relatively shallow (1-2 m) freshwater streams with moderate to high flow.	Unlikely	Based on habitat requirements and lack of observations. (No records in VBA)

Common name	Scientific Name	EPBC	FFG	VBA recs	VBA last	Source	Preferred habitat in Victoria	Likelihood of Occurrence	Justification
Invertebrates							•		•
Giant Gippsland Earthworm	Megascolides australis	VU	en	3	2003	VBA	Generally found in the deep blue-grey clay-like soils over cretaceous rocks in the western Strzelecki Ranges and in the alluvial soils in depositional zones to the north and south-west.	Unlikely	Study site is outside of species known range and is largely restricted to the western Strzelecki Ranges, within the Southern Uplands region.
Golden Sun Moth	Synemon plana	VU	vu	0		PMST	Native grasslands and grassy woodlands, particularly where Austrodanthonia (Rytidosperma) dominant. Now recognised to occur also in exotic grasslands dominated by Chilean Needle Grass.	Highly Unlikely	No records and no suitable habitat.



Planning Application: T250442
Date Prepared: 26 November 2025

# Appendix D

## **Migratory fauna**



#### ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025

Table D1 Migratory fauna identified by the VBA and PMST within 10 km of the study site

Scientific Name	Common name	VBA Records	Last Record	Source	Likelihood of Occurrence
Bar-tailed Godwit	Limosa lapponica	0		PMST	Highly Unlikely
Black-faced Monarch	Monarcha melanopsis	0		PMST	Highly Unlikely
Common Greenshank	Tringa nebularia	0		PMST	Highly Unlikely
Common Sandpiper	Actitis hypoleucos	0		PMST	Highly Unlikely
Curlew Sandpiper	Calidris ferruginea	1	1979	VBA, PMST	Unlikely
Eastern Curlew	Numenius madagascariensis	2	1979	VBA, PMST	Unlikely
Fork-tailed Swift	Apus pacificus	0		PMST	Unlikely
Greater Sand Plover	Charadrius leschenaultii	0		PMST	Highly Unlikely
Latham's Snipe	Gallinago hardwickii	2	2006	VBA, PMST	Possible
Pectoral Sandpiper	Calidris melanotos	0		PMST	Highly Unlikely
Red Knot	Calidris canutus	0		PMST	Highly Unlikely
Rufous Fantail	Rhipidura rufifrons	4	1981	VBA, PMST	Possible
Satin Flycatcher	Myiagra cyanoleuca	3	2007	VBA, PMST	Possible
Sharp-tailed Sandpiper	Calidris acuminata	0		PMST	Unlikely
White-throated Needletail Hirundapus caudacutus		1	1981	VBA, PMST	Possible
Yellow Wagtail	Motacilla flava	0		PMST	Highly Unlikely



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## Appendix E

Native vegetation removal report (NVRR)



#### ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025

## **Native Vegetation Removal Report**



NVRR ID: 311\_20250704\_DR9

This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines). This report is **not an assessment by DEECA** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

### **Report details**

**Date created:** 04/07/2025

Local Government Area: CARDINIA SHIRE

Shapefile name: NVR patch 12637984 20250703.shp

Site assessor name: Rohan Khot

Registered Aboriginal Party: Bunurong

Coordinates: 145.63283, -38.24180

Address: HEADS ROAD LANG LANG 3984

#### **Regulator Notes**

Removal polygons are located:

- Within a DEECA Mapped Wetland area
- On Crown Land





## Summary of native vegetation to be removed

Assessment pathway	Intermedia	te Assessment Pathway					
Location category	characterise as encompa: wetland or s	egetation extent map indicates that this area is d as supporting native vegetation. Additionally, ssing an endangered Ecological Vegetation Clas ensitive coastal area. The removal of less than eation in this area will not require a Species Offs	it is modelled ss, sensitive 0.5 hectares of				
Total extent including past and proposed removal (ha) Includes endangered EVCs (ha): 0.17	0.17	Extent of past removal (ha)  Extent of proposed removal - Patches (ha)  Extent of proposed removal - Scattered Trees (ha)	0 0.170 0.000				
No. Large Trees proposed to be removed	0	No. Large Patch Trees  No. Large Scattered Trees	0				
No. Small Scattered Trees	0						

## Offset requirements if approval is granted

Any approval granted will include a condition to the properties of the removal of native vegetation, that meets the following requirements:

| Planning Application: T250442 | Date Prepared: 26 November 2025

Cardinia

General Offset amount <sup>1</sup>	This copied document is made available for the purpose of the planning process as set out in the Planning and Environment Act 1987. The information must not be used or any other purpose. By taking a Crypt of the transmission of the purpose of the
Minimum strategic biodiversity value score <sup>2</sup>	0.3464
Large Trees	0
Vicinity	Melbourne Water CMA or CARDINIA SHIRE LGA

NB: values within tables in this document may not add to the totals shown above due to rounding

The availability of third-party offset credits can be checked using the Native Vegetation Credit Register (NVCR) Search Tool - <a href="https://nvcr.delwp.vic.gov.au">https://nvcr.delwp.vic.gov.au</a>

<sup>1.</sup> The General Offset amount required is the sum of all General Habitat Units in Appendix 1.

<sup>2.</sup> Minimum strategic biodiversity value score is 80 per cent of the weighted average score across habitat zones where a General Offset is required.

<sup>3.</sup> The Species Offset amount(s) required is the sum of all Species Habitat Units in Appendix 1.

### **Application requirements**

Applications to remove, destroy or lop native vegetation must include all the below information. If an appropriate response has not been provided the application is not complete.

#### Application Requirement 1 - Native vegetation removal information

If the native vegetation removal is mapped correctly, the information presented in this Native Vegetation Removal Report addresses Application Requirement 1.

#### **Application Requirement 2 - Topographical and land information**

This statement describes the topographical and land features in the vicinity of the proposed works, including the location and extent of any ridges, hilltops, wetlands and waterways, slopes of more than 20% gradient, low-lying areas, saline discharge areas or areas of erosion.

A	plication	Require	ment 3 -	<b>Photographs</b>	of the	native ve	getation to	be c	removed

Application Requirement 3 is not addressed in this Native Vegetation Removal Report. All applications must include recent, timestamped photos of each Patch, Cardige Patch Tree and Scattered Tree which has been mapped in this report.

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Planning Application: 7250442
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Application Requirement 4 - Passing and document is made availabiling for the purpose of the planning process of the planning

If past removal has been considered correctly, the information presented in this Native Vegetation Removal Report addresses Application Requirement 4.

#### Application Requirement 5 - Avoid and minimise statement

This	statement	describes	what has	been d	one to	avoid	and	minimise	impacts	on native	vegetation	and
asso	ociated biod	liversity va	alues.									

#### **Application Requirement 6 - Property Vegetation Plan**

This requirement only applies if an approved Property Vegetation Plan (PVP) applies to the property Does a PVP apply to the proposal?

#### **Application Requirement 7 - Defendable space statement**

Where the removal of native vegetation is to create defendable space, this statement:

• Describes the bushfire threat; and

vegetation proposed for removal (this can also be part of the avoid and minimise statement).
This statement is not required if, If the proposed defendable space is within the Bushfire Management Overlay (BMO), and in accordance with the 'Exemption to create defendable space for a dwelling under Clause 44.06 of local planning schemes' in Clause 52.12-5.
Application Benedican and C. Native Venetation Businet Blan
Application Requirement 8 - Native Vegetation Precinct Plan
This requirement is only applicable if you are removing native vegetation from within an area covered by Native Vegetation Precinct Plan (NVPP), and the proposed removal is not identified as 'to be removed' within the NVPP.
Does an NVPP apply to the proposal?
Application Requirement 9 - Offset statement
This statement demonstrates that an offset is available and describes how the required offset will be secured. The Applicant's Guide provides information relating to this requirement.

• Describes how other bushfire risk mitigation measures were considered to reduce the amount of native



### **Next steps**

Applications to remove, destroy or lop native vegetation must address all the application requirements specified in the Guidelines. If you wish to remove the mapped native vegetation you are required to apply for approval from the responsible authority (e.g. local Council). This Native vegetation removal report must be submitted with your application and meets most of the application requirements. The following requirements need to be addressed, as applicable.

#### Application Requirement 3 - Photographs of the native vegetation to be removed

Recent, dated photographs of the native vegetation to be removed **must be provided** with the application. All photographs must be clear, show whether the vegetation is a Patch of native vegetation, Patch Tree or Scattered Tree, and identify any Large Trees. If the area of native vegetation to be removed is large, provide photos that are indicative of the native vegetation.

Ensure photographs are attached to the application. If appropriate photographs have not been provided the application is not complete.

#### **Application Requirement 6 - Property Vegetation Plan**

If a PVP is applicable, it must be provided with the application.



### **Appendix 1: Description of native vegetation to be removed**

General Habitat Units for each zone (Patch, Scattered Tree or Patch Tree) are calculated by the following equation in accordance with the Guidelines

General Habitat Units = extent without overlap x condition score x general landscape factor x 1.5, where the general landscape factor =  $0.5 + (strategic\ biodiversity\ value\ score/2)$ 

The General Offset amount required is the sum of all General Habitat Units per zone.

#### Native vegetation to be removed

	Information provided by or on behalf of the applicant						Information calculated by NVR Map					
Zone	Туре	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	General Habitat Units	
1-A	Patch	-	GipP0937	Endangered	no	0.290	-	0.013	0.013	0.410	0.004	
2-A	Patch	-	GipP0937	Endangered	no	0.290	-	0.015	0.015	0.450	0.005	
3-A	Patch	-	GipP0937	Endangered	no	0.290	-	0.054	0.054	0.450	0.017	
4-A	Patch	-	GipP0937	Endangered	no	0.290	-	0.020	0.020	0.410	0.006	
5-A	Patch	-	GipP0937	Endangered	no	0.290	-	0.061	0.061	0.429	0.019	
6-A	Patch	-	GipP0937	Endangered	no	0.290	-	0.007	0.007	0.410	0.002	



## **Appendix 2: Images of mapped native vegetation**

## 1. Property in context



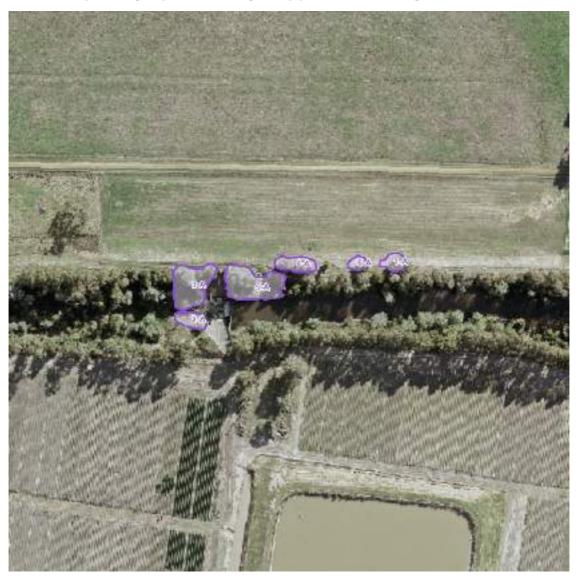
- Proposed Removal
- Past Removal
- Partial Removal
- Property Boundaries



200 m



## 2. Aerial photograph showing mapped native vegetation



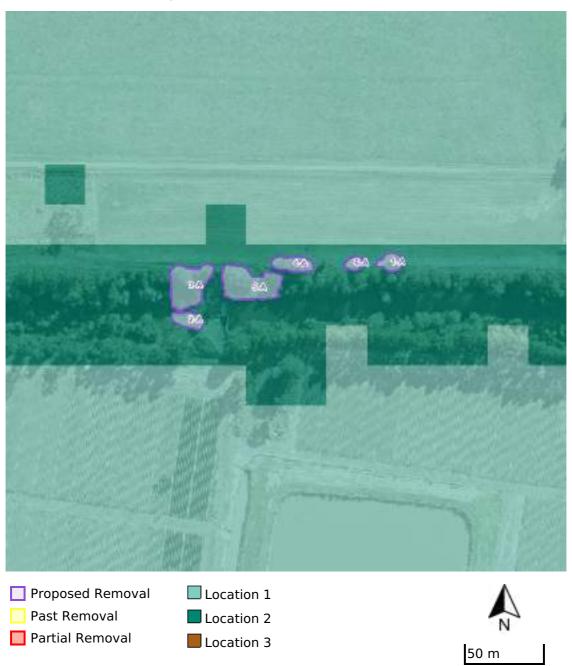
- Proposed Removal
- Past Removal
- Partial Removal



50 m

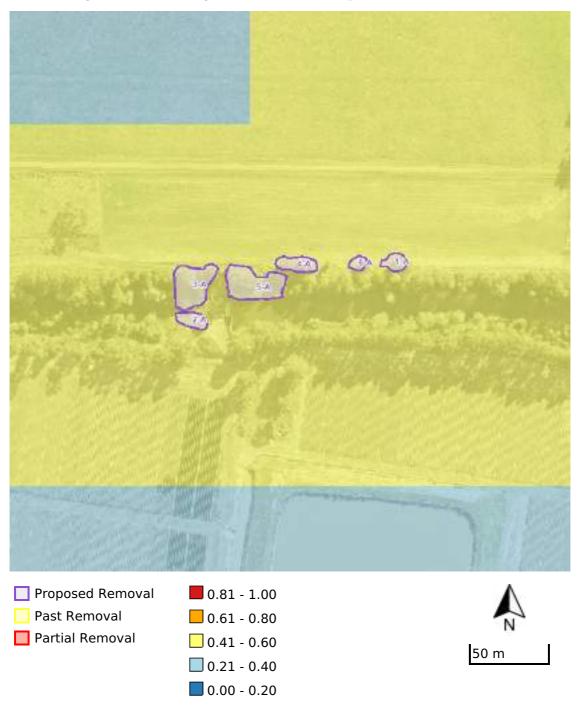


## 3. Location Risk Map



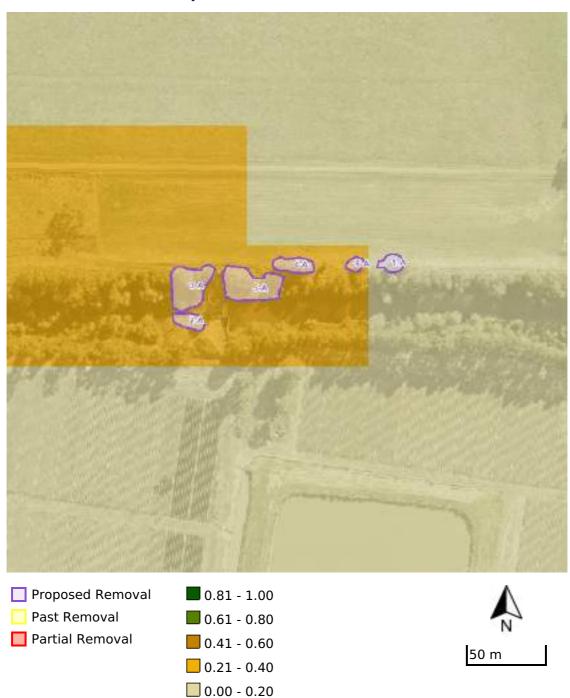


## 4. Strategic Biodiversity Value Score Map





## **5. Condition Score Map**





#### 6. Endangered EVCs



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## Appendix F

## Offset availability statement



#### ADVERTISED MATERIAL

Planning Application: T250442 Date Prepared: 26 November 2025



Project: Lang Lang Fish Lock Project

Native Vegetation Removal Report ID: 311\_20250704\_DR9

General Offset Amount: 0.053

Vicinity: Melbourne Water CMA

Minimum Strategic Biodiversity Value Score: 0.346

Large Trees: 0

Melbourne Water is the owner of sufficient offsets meeting the above requirements and can request that these offsets be allocated for this project when needed. The following is taken needed. The following is taken needed.

Credit Owner	Property I	This copied document is made available for the	e purpose of the planning process as	Strategic Sodiversity	Large Trees
		used for any other purpose. By taking a copy of and agree that you will only use the document that any dissemination, distribution or copying	for the purpose specified above and of this document is strictly prohibited.	Value (SBV) 1-1	
Melbourne Water Corporation	BBA-0670	BBA-0670-9-A	0.010	0.751	2
Melbourne Water Corporation	BBA-0670	BBA-0670-10-A	0.019	0.756	9
Melbourne Water Corporation	BBA-0670	BBA-0670-6-A	0.072	0.774	3
Melbourne Water Corporation	BBA-0670	BBA-0670-2-A	0.066	0.796	3
Melbourne Water Corporation	BBA-0670	BBA-0670-5-C	0.189	0.809	4
Melbourne Water Corporation	BBA-0670	BBA-0670-6-B	0.719	0.823	4
Melbourne Water Corporation	BBA-0670	BBA-0670-5-A	0.041	0.859	2
Melbourne Water Corporation	BBA-0670	BBA-0670-8-A	11.367	0.894	38
Melbourne Water Corporation	BBA-0670	BBA-0670-13-A	0.006	0.896	1
Melbourne Water Corporation	BBA-0670	BBA-0670-4-A	0.910	0.900	0
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10 July, 2025





## Appendix G

Evaluation of Fish Lock Construction and Operation with Respect to Planing Application: 25042 Significant Impact of the Construction of Planing Application: 25042 Significant Impact of the Construction of t

Criterion	Response Australian Grayling	Response Dwarf Galaxias
Lead to a long-term decrease in the size of an important population	The works required on the Lang Lang River are not likely to lead to a long-term decrease the size of the population present. Under current conditions the population is likely to be restricted to locations downstream from the Lang Lang River weir. Ultimately the construction of the Lang Lang River fish lock has the potential to increase the size of the Lang Lang River Australian Grayling population.  Australian Grayling have a widespread distribution across Victoria. In the local region (Port Phillip and Westernport and West Gippsland) there are important populations in the Bunyip and Yarra Rivers and Agnes River, Albert River, Avon River, Franklin River, Rainbow Creek-Thomson River, Tarwin River and the Thomson River (DELWP 2015a) and as such the Lang Lang River is not the only location within the region that support the species.  It is understood that construction of the fish lock (and associated dewatering of the weir pool upstream from the weir) would be completed between February and May to coincide with the Pang Lang River's low flow period. Given that the weir level will inhibit migratory paths than what is already pocertified: 26 November 2025	The works required on the Lang Lang River are not likely to lead to a long-term decrease the size of the population present. The species is likely to inhabit the Lang Lang River and adjacent wetlands throughout the catchment along with waterways throughout the Port Phillip and West Gippsland regions.  It is understood that construction of the fish lock (and potential dewatering of the weir pool upstream from the weir) would be completed between February and May to coincide with the Lang Lang River's low flow period. During this time Dwarf Galaxias have the potential to inhabit the waterway upstream from the Lang Lang River weir and as such there is the potential for short-term, localised impacts to the population upstream from the weir but no long-term decrease in size of the population, due to the limited extent and short-term duration of instream works.
Reduce the area of occupancy of an important population	The waterway works are not likely to reduce the large of purpose of the planting and Environment Act 1987. The information occupancy for Australian Grayling given into at this species is socument to currently unlikely to inhabit the electron of the Lang Lang River weir.  Ultimately the construction of the Lang Lang River fish lock has the potential to significantly increase the area of occupancy of the Lang Lang River Australian Grayling population.	austream from the weir will require partial dewatering. Any fish that augustream from the weir will require partial dewatering. Any fish that will be dewatered may lose access to aquatic vegetation and become trapped in the pool that remains. The weir pool does not provide optimum conditions for Dwarf Galaxias — which prefer swampy slow-flowing wetland habitat with good connectivity to waterways to allow for passage when wetland habitat dries. However, there exists the possibility that the fish may be present in small numbers in the weir pool.  The waterway works therefore have the potential to temporarily reduce the area of occupancy for Dwarf Galaxias if they are present. However, any impact is likely to be short-term and, in the context of the Lang Lang River population, the area impacted (potentially 20-50 m - to allow access to the weir) is considered minor.
Fragment an existing important population into two or more populations	The works required on the Lang Lang River are not likely to fragment the population present as the species is currently restricted to the area downstream from the Lang Lang River weir.	The works required on the Lang Lang River are not likely to fragment the population present. The construction period is short (four months) and localised in nature. The works will not lead to fragmentation of the current population into two populations.

Criterion	Response Australian Grayling	Response Dwarf Galaxias
Adversely affect habitat critical to the survival of the species	No critical habitat is listed for this species under the EPBC Act.  The species is currently known from waterways of south-eastern Australia, including southern NSW, Victoria and Tasmania.  Given the wide distribution and range of habitats used by the species throughout its life, it is not practical to specify habitat that is critical to survival. However, some habitats such as spawning, refuge and juvenile habitats are likely to be limited in distribution, yet crucial to the Australian Grayling life cycle.  The waterway works are not likely to significantly affect habitat that this species may use. Any physical impacts to the Lang Lang River will be temporary in nature (approximately four months) and are concentrated on the area upstream from the Lang Lang River weir, where this species does no currently reside. The lowering of water levels will essentially replicate current conditions (i.e. weir acting as a barrier for fish passage) and will therefore not impact the species.  The fish lock construction is therefore unlikely to adversely	No critical habitat is listed for this species under the EPBC Act.  The species is likely to inhabit the Lang Lang River and adjacent wetlands throughout the catchment along with waterways throughout the Port Phillip and West Gippsland regions.  The waterway works are not likely to adversely affect habitat that is critical to the survival of the species. Any physical impacts to the Lang Lang River will be temporary in nature (approximately four months) and are concentrated on the area upstream from the Lang Lang River weir.
Disrupt the breeding cycle of an important population	under current conditions juvenile Australian Grayling are likely to migrate up the Lang Lang River between approximately for comber 2025 and December and travel until they reach the Lang Lang River weir, where passage into the upper tracking and provided the lang lang River weir, where passage into the upper tracking and making the proposed the plant of the plant and travel until they reach the Lang Lang River weir, where passage into the upper tracking and making the proposed to the plant and the pla	abs such, the construction of the Lang Lang River fish lock is
	Construction of the fish lock is not likely to disrupt the breeding cycle, as this species can currently only use the Lang Lang River downstream from Lang Lang River weir.	
Modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline.	The construction of the fish lock will not directly decrease the quality of habitat available for the Australian Grayling to the extent that the species is likely to decline. Any impacts to the aquatic habitat in the Lang Lang River during the construction period will be temporary in nature and, in terms of fish passage, essentially replicate current conditions. Fish lock construction will increase the availability and quality of habitat for this species.	The development is unlikely to directly decrease the quality of habitat available for the Dwarf Galaxias to the extent that the species is likely to decline. Any impacts to the aquatic habitat in the Lang Lang River during the construction period will be temporary in nature and impact a relatively short reach of the river (approximately 50 metres) and as such the impacts would not be to the extent that the population as a whole would decline.

Criterion	Response Australian Grayling	Response Dwarf Galaxias
Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat.	It is unlikely that invasive species (such as introduced fish) that are harmful to the Australian Grayling would become further established as a result of the proposed development.	It is unlikely that invasive species (such as introduced fish) that are harmful to the Dwarf Galaxias would become further established as a result of the proposed development.
Introduce disease that may cause the species to decline	Fish lock construction is unlikely to lead to the introduction or spread of disease that may cause the species to decline.	Fish lock construction is unlikely to lead to the introduction or spread of disease that may cause the species to decline.
Interfere substantially with the recovery of the species	The fish lock construction is unlikely to result in the threatening processes identified in the Australian Grayling National Recovery Plan (Backhouse et. al. 2008) or include activities with the potential to have detrimental impact on the Australian Grayling. Thus, the construction of the fish lock will not interfere substantially with the recovery of Australian Grayling. Ultimately the fish lock's operation will aid in the recovery of the species.	The fish lock construction is unlikely to result in the threatening processes identified in the Dwarf Galaxias National Recovery Plan (Saddlier et. al. 2010). The fish lock is designed to create lasting benefit for diadromous (migratory) fish. Although Dwarf Galaxias do not migrate the fish lock will provide increased opportunity for movement within the catchment. Thus the construction of the fish lock will not interfere substantially with the recovery of Dwarf Galaxias.
Conclusion	The likelihood of this project having a significant impact upon Australian Grayling or interfering with its recovery is very low. Ultimately, the project has the potential to lead to a significantly positive impact on the population.	The key identified threat to the Dwarf Galaxias population is the possible temporary loss of an area of localised habitat for this species. The likelihood of the development having a significant impact upon Dwarf Galaxias or interfering with its recovery is very low. Ultimately, operation of the fish lock has the potential to lead to a significantly positive impact on the population.



Planning Application: T250442
Date Prepared: 26 November 2025



Thank you for your queries regarding the vegetation impacts under the SLO and the temporary hardstand, and for the discussion last week. We have provided a response to these items, please see below.

#### Vegetation within \$LO

The total area of impacted native vegetation remains at 0.17 ha with 0.047 ha of this potentially retained as specified in the report. As requested in our meeting last week, we have updated Figure 4 to reflect all "potentially impacted vegetation" as "impacted vegetation". Please see revised Figure 4 attached, and further detail below.

#### Impacted planted vegetation

The orange polygon, located along the private property access way, contains the following planted native species:

- Yertchuk (Eucalyptus consideniana)
- Narrow-leaf Peppermint (Eucalyptus radiata subsp. radiata)
- Southern Blue-gum (Eucalyptus globulus)
- Yellow Gum (Eucalyptus leucoxylon)
- · Red Box (Eucalyptus polyanthemos)
- Mugga (Eucalyptus sideroxylori subsp. sideroxylori)
- Eucalypt (Eucalyptus app.)
- Manna Gum (Eucalyptus viminalis subsp. viminalis)
- Swamp Paperbark (Melaleuca ericifolia)

As discussed, these trees will be impacted through trimming as a tree management practice, to provide access to the works and hardstand location. This has been updated from 'potentially impacted planted vegetation' to 'impacted planted vegetation' as requested. Photos were taken of this vegetation during the site visit, which is provided as an attachment.

Please note that our Flora and Fauna Report has been updated to reflect these items and has been provided as an attachment.

#### Temporary hardstand

The Site Plan figure has also been updated to include the land parcels, dimensions of both the hardstand area and no-go zone and relevant setbacks. Please note as discussed that we have provided a hardstand area which is the maximum amount required, and the temporary hardstand will be within this area. The updated Site Plan is attached to this email.

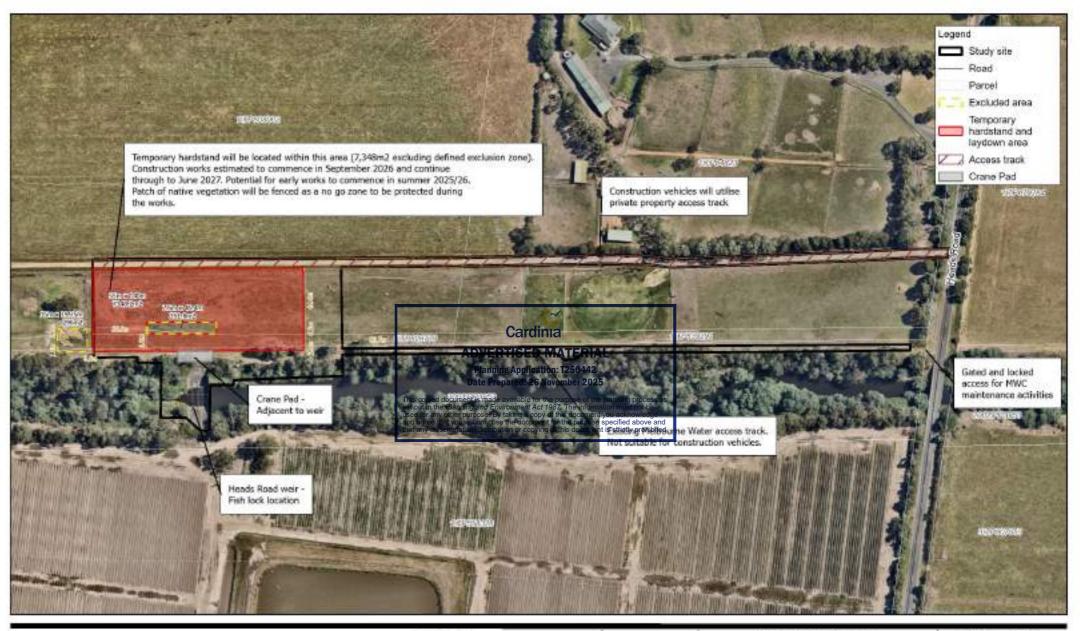
We trust that this will assist you with closing out your queries and progressing to public notice, please reach out to us should you have any queries on the above.

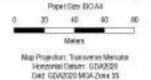
Kind regards.



Planning Application: T250442

Date Prepared: 26 November 2025









Melbourne Water Corporation Lang Lang Creek Fishway -Design Review and Tender Assistance Project No. 12637984 Revision No. F

Date 7/11/2025

Heads Road Weir Site Plan

FIGURE





Ged. GDA2029 MGA Zone 35



Melbourne Water Corporation Lang Lang Creek Fishway -Design Review and Tender Assistance

Project No. 12637984 Revision No. 0

Date 7/11/2025