

Final Report

Annual Compliance Report: 2 Years Post-Approval

For development at 78-88 Groves Road, Armstrong Creek,
Victoria (EPBC 2022/9357)

Prepared for

AC Manager Ltd

March 2026




Ecology and Heritage Partners Pty Ltd

DOCUMENT CONTROL

Assessment type	Annual Compliance Report: 2 Years Post-Approval
Reporting Period	5 March 2025 to 4 March 2026
Address	78-88 Groves Road, Armstrong Creek, Victoria
Project number	16303
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File name	16303_EHP_Year 2 Annual Compliance Report development at 78-88 Groves Rd (EPBC 2022_9357)_04032026
Client	AC Manager Pty Ltd
Bioregion	Otway Plain and Victorian Volcanic Plain
Catchment Management Authority	Corangamite
Council	City of Greater Geelong

VERSION CONTROL

Report version	Comments	Report updated by:	Date submitted
Draft	Report sent to client for review	CS/AW	27/02/2026
Final	Jinding	AW	04/03/2026

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1 EXECUTIVE SUMMARY

Ecology and Heritage Partners Pty Ltd were commissioned by AC Manager Pty Ltd to prepare the Year 2 Compliance Report for the approved action comprising the development of 200 residential lots and raising a section of Groves Road to facilitate access to 78-88 Groves Road, Armstrong Creek, Victoria (EPBC 2022/9357).

This report details the results of monitoring undertaken within the second year post-approval (i.e. between 5 March 2025 and 4 March 2026) in accordance with the Growling Grass Frog Conservation Management Plan (GGFCMP) (Ecology and Heritage Partners 2024a), including the status of one matter of National Environmental Significance (MNES) that occurs within the site, Growling Grass Frog. The intention of the GGFCMP is to detail the management strategy to mitigate the loss of an area of terrestrial and aquatic Growling Grass Frog habitat via the creation and maintenance of GGF breeding wetlands in an on-site offsite site. Monitoring was conducted between March 2025 and March 2026 and included assessment of constructed habitat establishment, targeted GGF population surveys, water quality monitoring, weed and pest management review, and compliance with EPBC approval conditions.

Wetland Creation

To mitigate against the impacts to the resident GGF population, habitat creation was undertaken within offset site (Figure 2). The creation of dedicated GGF wetlands will provide additional breeding and foraging habitat for the species, and improve habitat connectivity and frog dispersal within the property to improve the dispersal between neighbouring wetlands known to support the species (Sparrovale and Baenchs).

Habitat creation works were completed by late August 2025, with installation of rock beaching, terrestrial refuge structures and aquatic planting zones confirmed during inspections undertaken in August and September 2025. Vegetation establishment was observed during the November 2025 site assessments, indicating early-stage development of suitable structural habitat.

Growling Grass Frog

Targeted nocturnal surveys recorded GGF individuals only at the southern effluent pond, with no detections in the newly constructed wetlands across four survey rounds between November 2025 and February 2026. Although detections were lower across the broader site and neighbouring wetlands than in previous years, no trigger thresholds were reached under the GGFCMP. Habitat quality within the constructed wetlands was assessed as moderate, with appropriate cover of fringing and emergent vegetation and permanent open-water areas suitable for future colonisation. Water quality monitoring demonstrated progressive improvement following construction, with turbidity decreasing to within target ranges by November, phosphorus stabilising at acceptable levels, and dissolved oxygen remaining consistently suitable for amphibians. Nitrogen levels remained above interim triggers, though trending downward. Electrical conductivity remained within acceptable tolerances, albeit higher in Wetland 2.

Created wetlands and habitat will initially be secured under an on-title Section 173 Agreement [Planning and Environment Act 1987] prior to commencement of residential construction in accordance with condition 13 of the approval, and will be protected from the surrounding land uses. The site will be managed for the purposes of conservation of GGF through the control of pest animals and environmental weeds, in accordance

with the relevant Responsible Authority to ensure the land is secured and managed appropriately in perpetuity.

Conclusion and Recommendations

Year 2 monitoring confirmed that the constructed wetlands and associated terrestrial habitat are tracking toward the ecological objectives of the GGFCMP. While GGF have not yet colonised the created wetlands, the habitat is maturing, and no contingency thresholds have been reached. Continued monitoring, targeted weed control, maintenance of exclusion fencing, installation of the long-term water delivery system and completion of remaining administrative requirements (including Section 69 and 173 agreements) will support ongoing habitat improvement and readiness for future GGF occupation.

The works undertaken throughout Year 2 were as outlined by the GGFCMP, and were in compliance with the EPBC Act approval conditions. As per the GGFCMP, there have been no trigger thresholds for corrective work triggered. Management and monitoring is required to ensure that the offset site maintains optimal habitats for the species to ensure that the vegetation and habitat for GGF continues to improve.

To ensure that GGF habitat continues to improve, the following works should be incorporated into Year 3 management and monitoring in accordance with and addition to GGFCMP management requirements (Ecology and Heritage Partners 2024a):

- Regularly consult an experienced zoologist for maintenance issues that could impact on the GGF population and associated habitat;
- Ongoing habitat and GGF monitoring as per the approved GGFCMP (Ecology and Heritage Partners 2024a);
- Undertake routine monitoring to investigate the success of aquatic and terrestrial plant establishment and weed densities;
- Replace any failed plantings;
- Control any weeds invading terrestrial habitat by hand, or spot treatment methods with frog sensitive herbicides, or as advised by the Ecologist (e.g. Soursob control in winter 2026);
- Regular inspection of the fencing is required to ensure its effectiveness;
- The control of pest animals such as foxes and cats will be undertaken in accordance with local government laws and relevant legislation;
- Hygiene Protocol (Murray *et.al.* 2011) to be used to guide best practice Chytrid management;
- Complete and submit the application for the Section 173 Agreement to DEECA;

Monitor the level of any public disturbance in and around GGF habitat and manage accordingly (e.g. fencing repairs and signage).

2 INTRODUCTION

2.1 Background

Ecology and Heritage Partners Pty Ltd were commissioned by AC Manager Pty Ltd to prepare a Growling Grass Frog Conservation Management Plan (GGFCMP) and Offset Management Plan (OMP) for the nationally threatened Growling Grass Frog (GGF) *Litoria raniformis major* for the development at 78-88 Groves Road, Armstrong Creek, Victoria (EPBC 2022/9357). The GGFCMP provided detailed measures to ensure the development does not have a significant impact on the Growling Grass Frog population and supporting habitat. This included two GGF habitat creation areas and monitoring of new habitat within the study area during pre-development, development, and post-development stages.

As part of the implementation of the GGFCMP, trigger values have been established based on the Growling Grass Frog Habitat Design Standards and the background condition of neighbouring wetlands (Baenchs and Sparrovale). Habitat monitoring schedules must be implemented to assess the impact of the development and/or monitor the suitability of the site's management regime (Ecology and Heritage Partners 2024a). Section 3.12 of the GGFCMP states:

"A water quality monitoring site will be established at two sites within the constructed wetland prior to the commencement construction immediately following the completion of the constructed wetlands. Trigger values will be established and based on pre-construction water quality within the constructed wetland, and assessed predominantly against the GGF Habitat Design Standard water quality standards (DELWP 2017)"

Section 5.2 of the GGFCMP outlines Growling Grass Frog population targets and contingency, stating:

"For the site as a whole, regular population monitoring will determine if the Growling Grass Frog population is no longer present. Obvious causes of decline will be rectified if possible and as close as possible to the time of detection."

Chapter 3 discusses the results of the habitat, weed and pest, and population assessments, and baseline water quality recorded within the Offset Area, including the results of the targeted GGF surveys within the project area and Offset Areas. The purpose of this report is to document the management practices implemented within the Offset Areas, as required under the approved GGFCMP and OMP (Ecology and Heritage Partners 2024a, Ecology and Heritage Partners 2024b).

2.2 Objectives of the GGFCMP

The overall aim of the GGFCMP is to provide detailed measures to ensure the proposed activity does not have a significant impact on the GGF population and supporting habitat. The GGFCMP outlines management actions to meet this objective through the creation, protection, enhancement, and ongoing management of GGF habitat. The GGFCMP also outlines monitoring requirements to ensure that the species is not adversely affected during works and following development of the site. Specifically, the GGFCMP aims to:

- Determine what management actions are required to complete the proposed development without negatively impacting the resident GGF population;

- Provide a map showing the extent of current GGF habitat within the study area and surrounds;
- Demonstrate measures taken to avoid and minimise impacts during the project planning stage;
- Provide detailed management measures to further minimise impacts on the GGF population during development works;
- Provide detailed management and habitat design measures which provides for the construction, maintenance and enhancement of a permanent breeding site for GGF including:
 - Pre-development: habitat enhancement requirements, including development design considerations; details of design, construction and location of additional habitat;
 - During development: management requirements for protecting existing habitat from sedimentation and pollution and direct disturbance that may result from development activities; providing advice and recommendations on other habitat protection requirements, such as establishment of ‘no-go’ zones and clearly marked fencing; and,
 - Post-development: management requirements, including vegetation, water quality, protection of habitat from current and potential future threats (such as foxes, feral and domestic cats and Eastern Gambusia).
- Outline monitoring, maintenance and reporting requirements post development; and,
- Provide the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) with sufficient information to continue their assessment of the referred activity, and ultimately progress the implementation of the management plan during development works.

In order to adhere to the GGFCMP, annual Growling Grass Frog population and habitat monitoring must be undertaken during the development and for the first 10 years following the completion of construction of the Growling Grass Frog habitat areas (Offset Areas). The current Annual Compliance Report outlines the results of the second year of monitoring (i.e. two years post-approval), including results of all monitoring procedures, habitat creation (i.e. wetlands) and any maintenance activities will be provided in a report suitable for submission to DCCEEW. This annual audit also outlines the progress of the CMP implementation and identifies any key issues and management responses.

2.3 Offset Site Security

Condition 13 of the EPBC Act approval specifies that:

“To compensate for the residual impact of the Action on Growling Grass Frog, the approval holder must temporarily secure the onsite offset site prior to undertaking any construction of the Residential Development. The onsite offset site must remain temporarily secured at least until the:

- a) creation of the Constructed Growling Grass Frog Wetlands has been completed; and*
- b) the onsite offset site is secured.”*

A Section 173 Agreement has not yet been entered into by the proponent but will be secured prior to commencement of construction of residential development, as per Condition 13 of the EPBC Act approval.

2.4 Monitoring Methods

Baseline data to determine the condition and extent of GGF habitat, as well as the current population status within the study area was recorded by Ecology and Heritage Partners in 2021 (Ecology and Heritage Partners 2021a; 2021b; 2021c). The data collected during the targeted surveys was used to inform the GGFCMP (Ecology and Heritage Partners 2024a). As per the approved GGFCMP, ecological and population monitoring is undertaken annually during the development and for the first 10 years following the completion of construction.

The second year of compliance monitoring was undertaken by Ecology and Heritage Partners from 5 March 2025 to 4 March 2026. Nocturnal Growling Grass Frog surveys were undertaken within the study area, and at three separate reference sites in the surrounding area where the species has previously been observed. Surveys were conducted during the species' active season (October - March), in weather conditions considered optimal for detection (i.e. warm and humid, overnight temperature not less than 14°C) and when the species was known to be active on-site or elsewhere in the region. The survey effort consisted of spotlighting (using a hand-held 30-watt 12-volt spotlight) in and around each of the sites searching for frogs in open water; floating, emergent and fringing vegetation; and under logs and other refuge. The following habitat features were recorded as part of the assessment:

- Waterbody type;
- Visual water quality;
- Flow and depth;
- Overall habitat quality;
- Cover of fringing, emergent, floating and submerged vegetation;
- Availability and suitability of shelter and over-wintering sites;
- Presence of introduced fish, particularly Eastern Gambusia and Goldfish;
- Presence of pollutants, rubbish and other threatening processes;
- Photographic reference at marked locations so that comparisons of habitat conditions can be made over time;
- Landscape connectivity; and
- In situ water quality measuring; dissolved oxygen, pH, electrical conductivity, temperature and total dissolved solids.

Several diurnal surveys were undertaken throughout the year to record the type and cover of fringing, emergent, submerged and floating aquatic vegetation, and other refugia. Dip netting was undertaken within the waterbody to target tadpoles and predatory fish. Each nocturnal survey involved spotlighting surveys, call identification, and active searching for adults and metamorphs. More specifically;

- An initial period of five minutes was spent listening to any calling frogs (all species) in and adjacent to habitats;
- The advertisement call was broadcast to elicit a response from any adult males present;

- Surveyors used “Olight” LED hand-held spotlights (up to 1020 lumens/8.4 volts) to locate any calling males on floating vegetation in the waterbody and around the perimeter of waterbodies; and,
- Surveyors actively searched ground-level habitat including surface rocks, underneath hard litter, and at the base of vegetation for frogs.

During the habitat assessments, attributes of the land traversed on foot between sites was also noted for the presence (or otherwise) of suitable dispersal and/or foraging habitat. The entire site, including the effluent ponds proposed for removal was searched during monitoring events for any GGF outside the Offset Area. These areas were traversed on foot. Results of the habitat and water quality assessment is provided below (Section 3).

3 RESULTS

3.1 Habitat Creation Construction

A site inspection was conducted on the 15th of August 2025 to assess whether wetland creation actions have been undertaken in compliance with the approved GGFCMP (Ecology and Heritage Partners 2024a). The site inspection confirmed both one large and one smaller wetland had been constructed and filled with water.

The GGF habitat creation to this point was assessed to meet the standards outlined in the GGFCMP, as well as the Growling Grass Frog Habitat Design Standards (DELWP 2017). Loose rock piles generally extending >1m past normal water level had been installed at multiple locations around the perimeter of each wetland and covered approximately 25-30% of perimeter of each wetland (Plate 1). Terrestrial shelter in the form of large logs and log piles had been spread around the perimeter of the constructed wetlands within the terrestrial offset area (Plate 2). Mulch piles had also been laid around the perimeter of both constructed wetland, however this was corrected to not be within 50 metres of the wetlands.

Planting and installation of bird netting was completed prior to the 10th of September 2025. Each zone (littoral, entry and embankment) were all confirmed to be completed during a site inspection on the 19th of September 2025 and growth of the planted tube stock was confirmed during targeted GGF surveys during November 2025.



Plate 1. Jute matting and rock piles installed around the edge of the created wetland (Ecology and Heritage Partners 15/08/2025)



Plate 2. Large logs placed atop mulch piles along wetland edge (Ecology and Heritage Partners 15/08/2025)



Plate 3. Fence posts installed to exclude livestock during planting stage (Ecology and Heritage Partners 15/08/2025)



Plate 4. Detritus and debris collected in dip-net, with no evidence of aquatic fauna (Ecology and Heritage Partners 15/08/2025)



Plate 5. Welcome Swallows aerially foraging over created wetland (Ecology and Heritage Partners 22/09/2025)



Plate 6. Fringing vegetation becoming established at created wetland (Ecology and Heritage Partners 18/11/2025)

3.1.1 Alignment of the constructed habitat with the Growling Grass Frog Habitat Design Standards (DELWP 2017)

The degree to which the constructed habitat in the offset area meets the *Growling Grass Frog Habitat Design Standards* is provided below (Table 1).

Table 1. Adherence to Growling Grass Frog Habitat Design Standards (DELWP 2017)

Masterplan habitat standards	Constructed Habitat	Comments
Wetland clusters (nodes)		
Clusters contain at least 10 off-stream wetlands (including existing wetlands)	No	There is insufficient space for 10 off-stream wetlands. However the two constructed wetlands link larger clusters of wetlands in neighbouring Baenches and Sparrovale Wetlands.
Wetlands less than 200-300 m apart	Yes	
75% of wetlands should have a permanent hydroperiod (particularly Sept to Feb)	Yes	Both wetlands confirmed to be holding water from initial filling until February.
Variety of wetland types within a cluster	Yes	-
50% of wetlands to be 'anti-chytrid' (high rock cover, warm shallows, moderate salinity)	Ongoing	Rock piles installed in shallow edges of wetlands.
All wetlands offline (i.e. except during 'exceptional' floods)	Yes	-
Wetland size and morphology		
Area of most created wetlands must be at least 0.3 ha; where space is limited, wetlands to be at least 0.15 ha (in all cases submergent zone must be at least 0.1 ha)	Yes	-
At least one wetland should be large (>0.7 ha)	Yes	-
All wetlands must have a deep water zone (maintained at greater than 1.5 m deep) of at least 50% of surface area	Yes	-
Emergent vegetation zone of 30-40%, and should include a littoral zone with fluctuating water levels	Yes	-
Incorporate a variety of slopes in banks	Yes	-
Wetlands lined (e.g. clay liner) to prevent leakage, with soil over the liner	Yes	-
Hydroperiod		
75% of wetlands in a cluster to have a permanent hydroperiod; all wetlands should hold water between Sept. to Feb.	Likely	Wetlands likely to have a permanent hydroperiod due to reliable water source (i.e. Balog Channel water (filtered through silt fencing to exclude Eastern Gambusia), groundwater, direct rainwater and recycled water from

Masterplan habitat standards	Constructed Habitat	Comments
		the residential development). Monitoring to ensure water levels do not drop below 0.5 metres.
Created wetlands designed to be able to be dried out (drained)	Yes	-
Thermal properties		
Wetlands to incorporate an extensive shallow, permanently inundated zone	Yes	-
Wetlands incorporate rock piles around at least 20% of margin, extending into water	Yes	-
'Anti-chytrid' wetlands to have c. 50% rock cover	Yes	-
Aquatic vegetation		
Planting density to establish c. 50% submergent/floating cover within 2-3 years	Likely	Growth of submergent and floating vegetation cover observed.
Diverse vegetation established, in line with Growling Grass Frog planting species list	Yes	-
Water quality		
pH between 6.0 and 8.5	Yes	pH was recorded at the upper limit of the target range.
Salinity up to c. 5.0 mS/cm	Yes	-
Turbidity <40	Yes	Due to recent construction of the wetlands this standard was not initially met for Wetland 1 (20/10/2025). The following inspection (20/11/2025) showed that turbidity was now within target range.
Terrestrial habitat		
A minimum 50 m buffer of wetlands from development (i.e. roads/buildings)	Yes	-
Shared use paths and minor infrastructure (e.g. passive recreation) must not be constructed closer than 30 m from wetland	Yes	-
c. 50% of area within 10 m of wetlands to be low grassy vegetation to 10 cm height; ≤20% cover of tussock-forming graminoids	Yes	-
Rock piles established around wetlands	Yes	-
No mulch within 50 m of a wetland	Yes	Mulch observed ~10m from wetland edge. Corrected by contractor shortly after.
No trees or shrubs within 10 m; < 10% cover of trees/shrubs within 100 m of wetlands	Yes	-
The area between 10 m and 100 m should primarily have an open structure (e.g. short mown grass) with scattered denser plantings of tussock-forming vegetation	Yes (although some buffer <100m wide)	-

Masterplan habitat standards	Constructed Habitat	Comments
Other		
Inclusion of a fish exclusion filter between Growling Grass Frog wetlands and water source(s)	Yes	-
Groundwater is generally the preferred water source	Yes	However, wetlands also draw on Balog Channel water, direct rainwater and local recycled water as supplementary water sources.

3.2 Growling Grass Frog Monitoring

The habitat assessment identified that moderate quality habitat for GGF is now present within created wetland 1 and 2, in the Offset Area. The waterbodies provide large, open and permanent area of water that currently supports similar percentage cover of fringing and emergent aquatic vegetation (Plate 8).

No GGF were recorded within Offset Area, however several individuals (6) were recorded in the southern, larger effluent pond. No GGF tadpoles or metamorphs were found during surveys conducted. It was noted during surveys that water levels had dropped significantly across all sites, with the northern, smaller effluent pond and Baenchs Wetlands both recorded as dry during January and February surveys, indicating a reduction in suitable habitat for GGF.

Table 2. Details and weather conditions of the nocturnal GGF surveys

Date	Survey Times	Air temp (°C) Start	Humidity (%)	Wind (0-4)	Post rain
18/11/2025	21:33	16.3	80	14.8 SW	No
11/12/2025	22:29	13.6	85	7.4 S	No
14/01/2026	21:47	17.8	87	14.8 SE	No
04/02/2026	23:46	16.0	86	7.4 S	No

Table 3. Survey results and site observations

Date	Site	GGF Observed	GGF Calling	GGF Tadpoles Observed	Site Notes
18/11/2025	Effluent Ponds	0	0	0	Other species heard: Eastern Common Froglet, Eastern Banjo Frog, Spotted Marsh Frog, Southern Brown Tree Frog, Whistling Tree Frog, Striped Marsh Frog
18/11/2025	Sparrovale	0	0	0	Other species heard: Eastern Common Froglet, Spotted Marsh Frog
18/11/2025	Baenchs	0	0	0	Other species heard: Eastern Common Froglet, Spotted Marsh Frog, Whistling Tree Frog,
18/11/2025	Created Wetland 1	0	0	0	Other species heard: Eastern Common Froglet, Eastern Banjo Frog, Spotted Marsh Frog, Striped Marsh Frog
18/11/2025	Created Wetland 2	0	0	0	Other species heard: Eastern Banjo Frog, Spotted Marsh Frog, Striped Marsh Frog
11/12/2025	Effluent Ponds	6 (south pond)	6 (south pond)	0	Red Fox observed. Other species heard: Eastern Common Froglet, Spotted Marsh Frog, Whistling Tree Frog. GGF observed on floating vegetation in south pond.

Date	Site	GGF Observed	GGF Calling	GGF Tadpoles Observed	Site Notes
11/12/2025	Sparrovale	0	0	0	-
11/12/2025	Baenchs	0	0	0	-
11/12/2025	Created Wetland 1	0	0	0	Other species: Large numbers of Eastern Common Froglet, Spotted Marsh Frog and Striped Marsh Frog. Evidence of breeding by non-target species (tadpoles, eggs).
11/12/2025	Created Wetland 2	0	0	0	Other species: Large numbers of Eastern Common Froglet, Spotted Marsh Frog and Striped Marsh Frog. Evidence of breeding by non-target species (tadpoles, eggs).
14/01/2026	Effluent Ponds	1 (south pond)	0	0	1 GGF recorded in south effluent pond.
14/01/2026	Sparrovale	0	0	0	Other species: Spotted Marsh Frog
14/01/2026	Baenchs	0	0	0	No standing water
14/01/2026	Created Wetland 1	0	0	0	Other species: Spotted Marsh Frog, Eastern Common Froglet
14/01/2026	Created Wetland 2	0	0	0	Other species: Spotted Marsh Frog, Eastern Common Froglet
04/02/2026	Effluent Ponds	0	0	0	Other species: Spotted Marsh Frog, Eastern Common Froglet
04/02/2026	Sparrovale	0	0	0	Did not survey
04/02/2026	Baenchs	0	0	0	Minimal standing water
04/02/2026	Created Wetland 1	0	0	0	Other species: Spotted Marsh Frog
04/02/2026	Created Wetland 2	0	0	0	Other species: Spotted Marsh Frog

Ongoing population and habitat monitoring must be conducted in accordance with the detailed GGFCMP (Ecology and Heritage Partners 2024a) to assess any impacts associated with proposed development and to ensure habitat conditions within the offset area remain suitable for the species. Monitoring will be conducted during the species' active period between September and March for the life of the Offset Management Plan (Ecology and Heritage Partners 2024b).



Plate 7. Striped Marsh Frog observed within Wetland 1 (Ecology and Heritage Partners Pty Ltd 18/11/2025).



Plate 8. Fringing and emergent vegetation observed at Wetland 1 (Ecology and Heritage Partners Pty Ltd 18/11/2025).

3.2.1 Hydrology and Water Quality

The approved GGFCMP states that conductivity should not increase beyond the approximate limit for the species of 10,000 $\mu\text{S}/\text{cm}$ (Heard and Scroggie 2008). The following trigger values have been set to identify any potential reduction in water quality if conditions deteriorate from the baseline (pre-construction) water quality conditions:

- If turbidity is >20% than 40.0 (upper target value);
- If nitrogen is >1.0 mg/L;
- If phosphorous is >0.1 mg/L;
- If electrical conductivity is >1% above 5.0 mS/cm (target value c. <5.0 mS/cm);
- If dissolved oxygen concentration is <1% of the background condition recorded in adjacent wetlands known to contain a population of GGF (Sparrovale / Baenches);
- If pH ± 0.5 pH unit from targeted range (target range between 6.0 – 8.5pH); and,
- All other water quality parameters (including any nutrients or heavy metals) have not substantially exceeded the GGF Habitat Design Standard parameters (i.e. no statistically significant difference ($\alpha > 0.05$)).

Water quality monitoring was undertaken by Douglas Partners Pty Ltd (Douglas Partners Pty Ltd; Appendix 5). Across the four, monthly sampling rounds (Oct 2025 -Jan 2026), turbidity improved markedly, particularly in Created Wetland 1. An initial construction-related turbidity peak settled into the target range (<40 NTU) by the November and December checks and remained low by January. Wetland 2 was consistently clearer and also trended down over time. While pH remained alkaline in both wetlands, this persisted in the upper bound of the target range (6.0–8.5) and briefly exceeded it in both wetlands in December and Wetland 2 in January. Alkalinity will likely reduce as plant communities establish. Electrical conductivity (EC) was persistently higher

in Wetland 2 than Wetland 1 across the period, but values in both remained within the design standard threshold (≤ 5.0 mS/cm), suggesting salinity was acceptable from a habitat-suitability perspective.

Total nitrogen (TCN) remained above the interim trigger (>1.0 mg/L) at each round in both wetlands, albeit with a trend showing steady decline toward the target range. Total phosphorus declined to the ≤ 0.1 mg/L trigger by late spring/early summer. Dissolved oxygen (DO) was not recorded in October but was healthy in November, December and January (around ~ 9 – 12 mg/L initially, easing to ~ 9 mg/L by January), comfortably above amphibian-friendly levels (preferably ≥ 5 mg/L). Temperatures rose from ~ 17 °C in October to ~ 20 °C in January, reflecting seasonal warming, and both wetlands sat close to normal water level in mid-November (~ 3 cm below NWL), before dropping to ~ 12 below NWL by December. Water levels were reported during GGF population and habitat monitoring checks as decreasing by January and February, in line with expectations for late summer. Collectively, these data show water clarity and phosphorus improving as the systems settled, salinity acceptable (albeit higher in Wetland 2), alkalinity hovering at the upper end, and nitrogen continuing to settle post-construction of the wetlands.



Plate 9. Wetland 1 water level at approximately 3cm below normal water level depth (Ecology and Heritage Partners 18/11/2025).

Table 4. Water Quality.

Site	Date	Waterbody type	Water quality (in situ)	Water Level
Created Wetland 1	20/10/2025	Wetland	Temp: 17.2 PH: 8.2 Turbidity: 56.0 NTU TCN (Nitrogen): 2.6mg/L P (Phosphorous): 0.3 mg/L EC: 1.6 mS/cm DO: N/A	N/A
Created Wetland 2	20/10/2025	Wetland	Temp: 17.3 PH: 8.2	N/A

Site	Date	Waterbody type	Water quality (in situ)	Water Level
			Turbidity: 17.0 NTU TCN (Nitrogen): 2.9mg/L P (Phosphorous): 0.2 mg/L EC: 4.3 mS/cm DO: N/A	
Created Wetland 1	20/11/2025	Wetland	Temp: 16.7 PH: 8.5 Turbidity: 20.0 NTU TCN (Nitrogen): 2.0mg/L P (Phosphorous): 0.1 mg/L EC: 1.5 mS/cm DO: 11.6 mg/L	NWL -3cm (18/11/2025)
Created Wetland 2	20/11/2025	Wetland	Temp: 16.9 PH: 8.4 Turbidity: 4.7 NTU TCN (Nitrogen): 2.3mg/L P (Phosphorous): 0.1 mg/L EC: 3.8 mS/cm DO: 9.4 mg/L	NWL -3cm (18/11/2025)
Created Wetland 1	15/12/2025	Wetland	Temp: 16.3 PH: 8.6 Turbidity: 24.0 NTU TCN (Nitrogen): 1.8mg/L P (Phosphorous): 0.2 mg/L EC: 1.5 mS/cm DO: 11.7 mg/L	NWL -12cm (11/12/2025)
Created Wetland 2	15/12/2025	Wetland	Temp: 16.5 PH: 8.6 Turbidity: 4.1 NTU TCN (Nitrogen): 2.1mg/L P (Phosphorous): 0.2 mg/L EC: 3.6 mS/cm DO: 9.6 mg/L	NWL -12cm (11/12/2025)
Created Wetland 1	21/01/2026	Wetland	Temp: 20.0 PH: 8.1 Turbidity: 15.0 NTU TCN (Nitrogen): 1.6mg/L P (Phosphorous): <0.1 mg/L EC: 2.1 mS/cm	N/A

Site	Date	Waterbody type	Water quality (in situ)	Water Level
			DO: 8.9 mg/L	
Created Wetland 2	21/01/2026	Wetland	Temp: 20.2 PH: 8.6 Turbidity: 3.6 NTU TCN (Nitrogen): 1.8mg/L P (Phosphorous): <0.1 mg/L EC: 4.7 mS/cm DO: 8.8 mg/L	N/A

3.3 Habitat Monitoring

The degradation of GGF habitats can occur through a wide range of active and passive processes. Typical processes contributing to habitat degradation include:

- Lack of adequate maintenance and/or mitigation during construction;
- Ongoing erosion and sedimentation;
- Chemical and/or hard rubbish influx following flood events;
- Increased weed encroachment into areas of indigenous or planted terrestrial and aquatic vegetation
- Vegetation trampling, removal and/or dieback; and,
- Low water levels and/or poor water quality.

Significantly degraded habitat is unlikely to support GGF, reducing the dispersal and breeding opportunities which would normally be facilitated by areas of non-degraded habitat. As per the approved GGFCMP, any evidence of habitat degradation must be noted as part of the monitoring program.

3.3.1 Photopoints

Photopoint monitoring involves repeat photographs being taken from a fixed point at least once per year, which can show work completed, results and improvement or deterioration in site condition over time. The location of photopoints at this site has been selected by on-site ecologists during the initial monitoring event. These photopoints provide detailed photographic coverage of the site from different vantage points and angles, and photos will be taken at each of these points during each monitoring period required under the GGFCMP.

See Appendix 1 for photopoint images, locations and details recorded during the 2025-26 monitoring period.

3.3.2 Livestock / Frog Exclusion Fencing

Livestock exclusion fence was erected to protect planted vegetation from grazing to ensure successful creation of suitable GGF habitat (Plate 10). Frog exclusion is yet to be installed as successful migration has not yet occurred.



Plate 10. Stock Exclusion Fencing installed along western border of Offset Site (Ecology and Heritage Partners Pty Ltd 22/09/2025).



Plate 11. No Go Zone sign not attached to fence (Ecology and Heritage Partners Pty Ltd 22/09/2025).

3.3.3 Rubbish Removal

No litter was observed at the created wetlands during monitoring surveys, however a No Go Zone sign was observed in the offset area that had detached from the fence and blown in (Plate 11). This was corrected shortly after notification was provided to the approval holder. The risk of rubbish is largely due to the potential for blown rubbish from the surrounding area, which is likely to increase once residential construction commences. Ongoing rubbish removal and monitoring will be required, as per the approved GGFCMP.

3.3.4 Weed Control

Okologie Consulting have undertaken regular weed survey, while regular maintenance and weed control was undertaken by Absolute Maintenance Pty Ltd and Australian Ecosystems Pty Ltd, since commencement of the action. Weed control methods were in accordance with the Weed Management Plan (WMP) and GGFCMP.

Ecology and Heritage Partners undertook a weed monitoring survey on 30 September 2025, as per the GGFCMP. Some evidence of successful woody weed control in western section of offset area was recorded (reduced African Boxthorn), however noxious and woody weeds were yet to be removed in north-east (i.e. high cover of African Boxthorn, Bathurst Burr and Artichoke Thistle). This was due to avoidance of large vehicles and machinery within the offset area, and these weeds were subsequently controlled by hand/implements.

A newly established infestation of Soursob *Oxalis pes-caprae* was recorded during the Ecology and Heritage Partners monitoring survey, with control advised to be undertaken the same way that other CaLP Act 'Restricted' noxious weeds are proposed to be controlled (i.e. Spear and Variegated Thistle - reduce to less than 1% after 2 years). Timing of control is critical, and manual or chemical control was advised to be implemented just before or at flowering when the plant is weak, root is young/thin and bulbs are shrivelled (i.e. June-July 2026).

Subsequent weed surveys undertaken by Okologie Consulting have demonstrated that weed cover has largely been reduced in accordance with the weed control plan in the GGFCMP (see Appendix 3).

3.3.5 *Pest Animal Control*

During GGF monitoring at effluent dams on 11th December 2025, a Red Fox *Vulpus vulpus* was observed in proximity to the ponds, while no Fox dens were recorded. This was reported to the approval holder. Licenced contractors may be required to implement fox control if further individuals or dens are observed on site.

No Eastern Gambusia *Gambusia holbrooki* or any other fish species were observed during targeted surveys and dip netting.

3.4 Schedule of Management Actions

The following section relates to the management actions and targets summarised in Table 1 of the GGFCMP prepared for the offset site (Ecology and Heritage Partners 2024a).

Table 5. Schedule of management actions

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
1 and ongoing	<p>1. Creation of Dedicated Growing Grass Frog Wetlands.</p> <p>The creation of dedicated Growing Grass Frog waterbodies within the proposed wetlands will provide additional breeding and foraging habitat for the species and improve habitat connectivity and frog dispersal.</p>	Following establishment of no-go zone and exclusion fencing	<p>The created wetland habitat will be constructed prior to and during development to allow frogs to naturally colonise the wetlands during the species active season.</p> <p>Design features of constructed wetlands:</p> <ol style="list-style-type: none"> 1. Wetlands will be designed to permanently contain water and the Balog Channel will be the initial primary water source for the constructed wetlands with supplementary groundwater also used, if required. Water will be piped from the Balog Channel initially, with a sediment filter preventing Eastern Gambusia from accessing the wetland. Groundwater, direct rainwater and recycled water (post-residential construction) will then be used to maintain water levels in the wetlands, including during periods of low rainfall (e.g. drought). The specifics of the groundwater water delivery system are to be finalised but are likely to utilise a self-sustaining solar-powered groundwater pump system. 2. Depth gauges will be installed in all wetlands, and wetland depth will be monitored monthly for the first two years following construction. 3. Supplied with the best feasible water quality consistent with the Growing Grass Frog Habitat Design Standards. 4. Able to sustain appropriate vegetation to provide habitat (see below). 5. Will be clay-lined to retain water with a loamy or sand-substrate topsoil. <p>Include rock mattresses, covering minimum 20% of the bank area, as alternative refuge and overwintering sites around the wetland margins (Figure 3).</p>	3.1	Complete. Ongoing monitoring and maintenance required.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<p>Trees and/or large shrubs must not be planted within 20 metres of the banks of Growling Grass Frog wetlands as this may shade out ponds, thus potentially rendering them unsuitable for the species.</p> <p>Designed, constructed and managed so that they predominantly comprise open water, low water turbidity, be still, and have low nitrate, phosphate, and salinity levels.</p>		
1 and ongoing	<p>2. Salvage and Relocation</p> <p>The salvage and relocation of Growling Grass Frog individuals from within the Created Habitat Area 1 prior to habitat creation</p>	<p>Both immediately prior to and during the development works, as required</p>	<p>Salvage and relocation (if required) will be undertaken as follows:</p> <p>The salvage and relocation of Growling Grass Frog individuals from within the Created Habitat Area 1 may need to be undertaken prior to habitat construction activities.</p> <p>Salvage and relocation procedures may be initiated to reduce the occurrence of death, injury or displacement of individuals.</p> <p>All areas where rock beaching is to be incorporated must be identified using clearly visible timber stakes and/or bunting prior to works being carried out.</p> <p>The area will be searched by a suitably qualified zoologist and appropriate salvage and relocation protocols initiated.</p> <p>If a suitably qualified zoologist is not present during a stage of development where GGF is located on site, contractors are required to temporarily halt works in that area, contact a zoologist and follow procedures outlined in section 3.9.7 of GGFCMP.</p>	3.9	Complete.
1 and ongoing	<p>3. Migration of Growling Grass Frog from effluent pond (existing habitat) into constructed wetland</p>	<p>Prior to and during construction</p>	<p>The habitat corridor will be constructed prior to commencement of construction in the adjacent residential development area to allow frogs to naturally migrate from the effluent pond (existing habitat) and colonise the constructed wetlands during the species active season.</p>	3.5	Ongoing. Migration corridor observed to be suitable for dispersal although no migration of GGF from effluent ponds observed during monitoring.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
1 and ongoing	<p>4. Removal of Effluent Ponds (possible salvage and relocation)</p> <p>The removal of Effluent Pond 1 where Growling Grass Frog was recorded</p>	Prior to and during construction	<p>Removal of effluent ponds will occur following completion of constructed wetland habitat and after one Growling Grass Frog breeding season, to allow migration of Growling Grass Frog individuals from the effluent ponds into constructed habitat.</p> <p>The following steps will be undertaken during removal of effluent ponds:</p> <ol style="list-style-type: none"> 1. Pre-clearance searches and salvage; 2. De-watering of effluent ponds; 3. Removal of terrestrial habitat; 4. Filling of ponds. <p>Salvage and relocation (if required) will be undertaken as follows:</p> <ol style="list-style-type: none"> 1. The salvage and relocation of Growling Grass Frog individuals from Effluent Pond 1 and 2 will be undertaken prior to their removal. 2. Salvage and relocation procedures may be initiated to reduce the occurrence of death, injury or displacement of individuals. 3. The area will be searched by a suitably qualified zoologist and appropriate salvage and relocation protocols initiated. 4. If a suitably qualified zoologist is not present during a stage of development where GGF is located on site, contractors are required to temporarily halt works in that area, contact a zoologist and follow procedures outlined in section 3.9.7 of GGFCMP. 	3.8 3.9	Incomplete. Action is scheduled to commence during the GGF 2026 overwintering period, prior to commencement of construction.
1 and ongoing	<p>5. Staged development.</p> <p>Development of the Groves Road site will be undertaken over multiple stages to protect existing habitat until the dispersal corridor has been constructed.</p>	Throughout construction	<p>Development of the site will be staged as follows:</p> <ol style="list-style-type: none"> 1. The created wetland habitat will be constructed prior to commencement of residential construction in the adjacent development area to allow frogs to naturally colonise the wetlands during the species active season. 2. Frog Exclusion fencing will be installed along the border of the constructed wetland habitat with the development area once frog colonisation has occurred. Fencing will be installed prior to the commencement of residential construction in areas adjacent to the constructed wetland to prevent Growling Grass Frog from entering the residential development area during 	3.1 3.4 3.1 3.6	Ongoing. Creation of GGF wetlands completed prior to any development works commencing on site.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<p>and after residential construction. Impacted Growling Grass Frog habitat (i.e. Effluent Pond 1 and 2) will only be removed once all Growling Grass Frog individuals are confirmed to have migrated to constructed wetlands or elsewhere. This will be confirmed via targeted surveys for the species at the impacted wetlands following the migration period.</p> <p>1. Temporary frog fencing in all areas will be decommissioned once permanent frog exclusion fencing and all construction activities within the constructed wetland habitat have been completed.</p>		
1 and ongoing	<p>6. Establish no-go zones and temporary exclusion fencing.</p> <p>Protect existing habitat (prior to its removal) and subsequently the habitat corridor and no-go areas during construction.</p>	Prior to commencement of construction	Temporary frog exclusion fencing and signage will be installed around the outer perimeter of Created Habitat Area 1 prior to the commencement of construction (see Figure 3).	3.1 3.8 3.10	Complete. Fencing that excludes livestock confirmed to be erected with 'NO GO ZONE' signage.
		Prior to and during construction of the habitat corridor / frog migration	Fencing will be installed along the entire boundary of the development areas during construction of created wetland habitat and the Growling Grass Frog migration from effluent pond. This is to prevent Growling Grass Frog from entering the development area during and after construction.		Complete. Temporary fencing installed and present throughout construction of wetlands.
		Following completion of permanent exclusion fencing	Temporary frog fencing in all areas will be decommissioned once and all construction activities, Growling Grass Frog migration, and permanent frog exclusion fencing within the constructed wetland habitat have been completed.		Incomplete. Activity will commence following the successful migration (or relocation) of GGF.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
		Monthly	Fencing and “no-go” zones inspected monthly for damage or evidence of dumping/activity.		Complete and ongoing.
		As required	All no-go zones and sensitive habitat areas for Growling Grass Frog clearly signed and discussed during on site inductions.		Ongoing.
1 and ongoing	<p>7. Revegetation and constructed wetland and habitat creation of Created Habitat Areas.</p> <p>New constructed wetland habitat (Created Habitat Area 1) and the area within the movement corridor (Created Habitat Area 2) will be created through the provision of appropriate revegetation and habitat enhancement.</p>	<p>During stage 1 in Created Habitat Area 1.</p> <p>Following earthworks and landscaping of wetlands within movement corridor (Created Habitat Area 2)</p>	<p>The creation of constructed Growling Grass Frog wetland habitat will include the provision of terrestrial habitat (rock, logs and other ground debris) and aquatic habitat (supplementary aquatic vegetation). Habitat creation and enhancements activities associated with Created Habitat Area 1 at the large constructed pond will commence prior to, or during the first stage of the development.</p> <ol style="list-style-type: none"> To achieve these habitat requirements, in each Growling Grass Frog wetland there will be three distinct zones (as shown in Error! Reference source not found. of GGFCMP). Timing of works - works will be undertaken between April and August inclusively and ideally planting should occur in late winter/ early spring, providing there is adequate rainfall. All works must be subject to disease control in accordance with the measures contained in section 5.1 and the Hygiene Protocols for the Control of Diseases in Australian Frogs (Murray <i>et.al.</i> 2011) (Attachment D of GGFCMP). Protective netting will be installed, where required, to prevent damage to aquatic plants by waterfowl. Trees and/or large shrubs must not be planted within 20 meters of the banks of Growling Grass Frog wetlands. A minimum topsoil depth of 150 mm within all wetland planting areas. The planting area will contain floristically diverse and structurally similar vegetation, planted at a nominal density of <u>six individuals per square meter</u> with the provision for areas of bare ground between plantings. Recommended species for wetland planting known to be present in Growling Grass Frog habitats are provided in Attachment C of GGFCMP. 	<p>3.1</p> <p>3.4</p> <p>3.8</p> <p>4.1</p> <p>Attachment C</p>	<p>Complete. Ongoing monitoring and maintenance required.</p>

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<p>The following species must not be introduced into Created Habitat Area 1 and 2 or included in the list of suitable species to be planted in order to avoid the risk of constructed wetlands becoming choked with vegetation;</p> <ul style="list-style-type: none"> Narrowleaf Cumbungi <i>Typha domingensis</i> Broadleaf Cumbungi <i>Typha orientalis</i> Lesser Reed-mace <i>Typha latifolia</i> Common Reed <i>Phragmites australis</i> Tall Spike-rush <i>Eleocharis sphacelata</i> 		
1 and ongoing	<p>8. Chemical/petroleum spill and hard rubbish dumping.</p> <p>Protect existing and constructed Growling Grass Frog habitat from contamination.</p>	Both immediately prior to and during the development works, as required	<ol style="list-style-type: none"> Chemical and fuel storage area to be established as far from Growling Grass Frog habitat as practical. Equipment to be regularly serviced and inspected daily. Personnel to undergo adequate training in equipment usage. Engage a specialist contractor, as required, to clean up contaminants such as oil spills, etc. Inspection of all drainage points leading to the water bodies for chemical spills, leaks, and rectify where necessary. Once-off intensive hard litter removal (and if required between normal maintenance schedules). Several 'Spill Response Kits' will be maintained on site in areas where chemicals are stored and in construction areas. Appropriate training will be provided on how to use the kits if a spillage occurs on site. 	2.3.1 3.10.3 5.3.2	Complete, ongoing.
1 and ongoing	<p>9. Chytrid management.</p> <p>Chytrid fungus is a major threat to amphibian populations in Australia.</p>	During habitat construction and management of created habitat areas,	<ol style="list-style-type: none"> All footwear and equipment (e.g. nets, buckets, callipers, headlamps, waders), will be thoroughly cleaned and disinfected before entering and exiting the constructed wetland, and between sites including between the site of salvage and No-Go-Areas. 	2.3.2 3.9.2 3.10	Ongoing.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
	Hygiene Protocol will be used to guide best practice Chytrid management.	throughout construction and post-construction (when residential development and offsite site maintenance occurs for both GGF Wetlands and the 6.7ha foraging and dispersal habitat).	<ol style="list-style-type: none"> Any equipment used to handle frogs and tadpoles will be cleaned and disinfected between each use. The tyres of all vehicles will be cleaned and disinfected before entering and exiting the construction area of the proposed wetlands habitat (if required). The tyres/tread and other parts of machinery and plant (e.g. the excavator bucket; pumps) involved in the habitat construction and associated activities, will be cleaned and disinfected before entering the construction area of the proposed wetlands habitat. A new pair of disposable latex gloves will be used between each frog and tadpole. Gloved hands will be dipped in the local water in the immediate area so that loss of skin secretions is minimised when frogs are picked up. Frogs will be placed into new and clean plastic sample bags, with a 'one bag-one frog' policy. Bags will not, under any circumstances, be reused. Disinfection methods will follow the procedures outlined in the Hygiene Protocol. 	5.1 Attachments B, D	
		During salvage and relocation.	Follow handling guidelines for salvage and relocation (see section 5.1 and Attachments B, D of GGFCMP).		
		Ongoing	Sterilise footwear before entering created habitat areas.		
1 and ongoing	<p>10. Manage artificial lighting and noise.</p> <p>Artificial light and noise will be kept to a minimum to reduce impacts to Growling Grass Frogs.</p>	During construction activities	<ol style="list-style-type: none"> Construction activities will comply with the Greater Geelong City Council Building works – Local Law requirements (Greater Geelong City Council 2014). Building or other works that may produce noise can only be carried out between the hours 7.00 am and 6.00 pm on weekdays, 9.00 am and 6.00 pm on Saturdays, Sundays, and public holidays. Sources of artificial light from the surrounding development will be directed away from the existing habitat, constructed wetland and migration corridor. 	2.3.5 2.3.6	Ongoing.
		Design and installation phase	<ol style="list-style-type: none"> No additional lighting directed towards the existing habitat or constructed wetlands. Shields will be placed on lights to reduce lateral light spill. 		Ongoing.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<ol style="list-style-type: none"> If necessary embedded lights will be used on walkways adjacent to the constructed wetland habitat. Use of high intensity lights in white or blue range (<50 nm wavelengths) will be avoided. 		
1 and ongoing	<p>11. Monitor and control pest fauna species.</p> <p>If Eastern Gambusia is observed within Created Habitat Area 1, protocols outlined in Section 3.7 will be implemented.</p> <p>Feral Animal Control measures will be implemented in the study area to reduce the population size of foxes.</p>	Both immediately prior to and during the development works, as required	<ol style="list-style-type: none"> Assessment of feral predators within Created Habitat Area 1 and 2 prior to the commencement of construction. If evidence of foxes is found, appropriate control measure to be implemented immediately. Destroying any dens discovered on site. 	2.3.7 3.7 3.10.2 5.3.7	Ongoing. Monitoring for pest species undertaken concurrently with targeted GGF surveys. Management actions required.
		During wetland habitat construction	<ol style="list-style-type: none"> The newly constructed wetlands will be hydrologically independent from Sparrovale and Baenches wetlands. The wetlands will contain a drainage outlet at the lowest point of the waterbody for removing some or all water from the system. 		Complete.
		Monitor fish in autumn and September.	<ol style="list-style-type: none"> Monitoring of created habitats will continue for ten years and will be undertaken every six months for the first two years during the development, and annually for the first five years following the completion of construction of the Growling Grass Frog habitat areas (Created Habitat Areas 1, 2). After the fifth year, monitoring frequency will be determined based on the results of the first five years, and conducted every second year, at minimum. Wetlands will be drained (i.e. via a pump) and allowed to completely dry out should Eastern Gambusia be detected. Wetlands will only be drained outside of the Growling Grass Frog active season (i.e. not to be drained in Spring and Summer). Wetlands will be re-filled naturally once the wetlands have completely dried and once evidence of predatory fish is no longer detected. Although absence of predatory fish cannot be confirmed, a high probability of absence can be 		Complete. Ongoing monitoring of predatory fish required.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			inferred if the species is not detected during dip net surveys undertaken during consecutive water quality monitoring checks. The cause of Eastern Gambusia introduction will be investigated and the water delivery system repaired (if necessary)..		
		Opportunistic and ongoing	Destroy any fox dens found on site.		Ongoing.
1 and ongoing	<p>12. Monitor and managed vegetation in habitat corridor.</p> <p>Once constructed, habitat in the created habitat areas will need to be maintained through ongoing revegetation or slashing.</p>	<p>Twice annually (autumn and spring) in years 1 and 2. Annually for the first five years following the completion of construction.</p>	<ol style="list-style-type: none"> Monitoring of created habitats will continue for ten years and will be undertaken every six months for the first two years during the development, and annually for the first five years following the completion of construction of the Growling Grass Frog habitat areas (Created Habitat Areas 1, 2). After the fifth year, monitoring frequency will be determined based on the results of the first five years, and conducted every second year, at minimum. Monitoring of vegetation will be conducted in autumn and spring. Replace any failed plantings. Increase planting density by planting additional vegetation, or conversely, removal of wetland vegetation (if it is smothering the waterbody); as required. Control any weeds invading terrestrial habitat by hand, or spot treatment methods with frog sensitive herbicides. Building material and other unwanted materials (e.g. plastic, polystyrene) will be removed from wetlands/waterways and ponds. Identify and remove barriers to frog dispersal. Where relevant gross pollutant traps and/or sediment filters will be checked and, if necessary, subsequently cleaned, particularly after heavy rain or storm events. 	5.3	Ongoing. Some failed plantings observed during site inspections.
		As required, based on conditions.	<ol style="list-style-type: none"> Increasing the intensity of feral animal controls. Additional refuge sites such as rocks, logs and dense low-lying vegetation will be added if it is considered, during site monitoring, that the area of shelter is insufficient. 		

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<ol style="list-style-type: none"> 3. Routine maintenance of grassed areas within the reserve area around the periphery of the waterbodies. 4. Monitor the level of any public disturbance in and around Growling Grass Frog habitat and manage accordingly (e.g. fencing repairs and signage). 5. Revise mitigation and monitoring measures in agreement with responsible authorities, if necessary. 		
1 and ongoing	<p>13. Pest plant monitoring and control.</p> <p>It is important to ensure that any weed control works using herbicides are both targeted (i.e. spot spraying) and undertaken at the right time of the year. Where possible, weeds will be controlled by hand or with the use of implements.</p>	Monitoring quarterly for two years, then biannually.	Monitoring of created habitats will be undertaken every six months for the first two years during the development, and annually for the first five years following the completion of construction of the Growling Grass Frog habitat areas (Created Habitat Areas 1, 2). After the fifth year, monitoring frequency will be determined based on the results of the first five years, and conducted every second year, at minimum.	3.1 5.3.5 5.3.10	Ongoing. Weed surveys undertaken in September 2025 and January 2026 (Appendix 3).
		Ongoing pest plant controls as required	<ol style="list-style-type: none"> 1. Where possible, weeds will be controlled by hand or with the use of implements. 2. Where herbicide application is necessary, waterway sensitive products such as Roundup Bioactive®, Weedmaster Duo® or Weedmaster 360® must be employed, without the addition of surfactant; 3. When used in riparian areas, will be directly sponged or wicked onto weeds to minimise off target damage. 4. Herbicides must not be used within 10 meters of wetlands during the breeding season (October-March). 5. Any weed control works must be completed in a manner that minimises soil disturbance. 6. Pest plants that reproduce sexually (by seed) must be controlled before seeds ripen. <p>The following species must not be introduced into Created Habitat Areas 1 and 2 or included in the list of suitable species to be planted in order to avoid the risk of constructed wetlands becoming choked with vegetation;</p>		Ongoing.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<ul style="list-style-type: none"> Narrowleaf Cumbungi <i>Typha domingensis</i> Broadleaf Cumbungi <i>Typha orientalis</i> Lesser Reed-mace <i>Typha latifolia</i> Common Reed <i>Phragmites australis</i> Tall Spike-rush <i>Eleocharis sphacelate</i> <p>If these species are observed within Created Habitat Areas 1 and 2 during habitat monitoring a nominated principal contact of AC Manager Pty Ltd must be notified, and a wetland revegetation specialist contractor must be engaged to remove these species so that wetlands remain clear and support open water. A suitably qualified zoologist must be notified prior to removal so that appropriate salvage and relocation activities can be assessed and implemented.</p>		
1 and ongoing	<p>14. Water quality monitoring.</p> <p>A monitoring program has been designed to identify any potential reduction in water quality if conditions deteriorate from the baseline (pre-construction) water quality conditions.</p>	Both immediately prior to and during the development works, as required	<ol style="list-style-type: none"> A water quality monitoring site will be established at two sites within the constructed wetland prior to the commencement construction immediately following the completion of the constructed wetlands. Trigger values will be established and based on pre-construction water quality within the constructed wetland. Given that there is no long-term water quality data for the constructed wetland the following trigger values will be used: <ul style="list-style-type: none"> If turbidity is >20% than 40.0 (upper target value); If nitrogen is >1.0 mg/L; If phosphorous is >0.1 mg/L; If electrical conductivity is >1% above 5.0 mS/cm (target value c. <5.0 mS/cm); If dissolved oxygen concentration is <1% of the background condition recorded in adjacent wetlands known to contain a population of GGF (Sparrovale / Baenches); 	3.10.3	Ongoing. Water quality monitoring undertaken on 05/08/2025, 19/09/2025, 20/10/2025, 20/11/2025, 15/12/2025 and 21/01/2026.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<ul style="list-style-type: none"> If pH ± 0.5pH unit from targeted range (target range between 6.0 – 8.5pH); and, All other water quality parameters (including any nutrients or heavy metals) have not substantially exceeded the GGF Habitat Design Standard parameters (i.e. no statistically significant difference (alpha >0.05). <p>3. Water quality monitoring will be conducted on a monthly basis as soon as approvals are granted, prior to commencement of construction, to establish any relevant background conditions.</p> <p>4. Weekly monitoring will be undertaken until the water quality conditions return to background conditions or within SEPP Waters of Victoria (WoV) objectives (EPA 2009; 2018).</p>		
1 to 5	<p>15. Growling Grass Frog Population Monitoring</p> <p>Surveys will be conducted to assess the impact of the development and/or monitor the suitability of a site's management regime.</p>	Annually during the development and for the first 5 years following the completion of construction	<p>Each monitoring event will comprise diurnal and nocturnal surveys.</p> <p>1. At least 4 nights of surveys will be conducted; at least two in the early part of the active season (to collect data when calling and mobility is high) and two later in the season (when reproductive output is greatest i.e. tadpoles, metamorphs).</p> <p>2. Tadpole surveys will be undertaken annually for the first five years post-development, and conducted every second year, at minimum, from the fifth year.</p> <p>3. Monitoring of created habitats will be undertaken every six months for the first two years during the development, and annually for the entire 10-year management period.</p> <p>Contingency management actions provided above will be implemented if a population trigger event occurs (Section 6.2 of GGFCMP) and informed by all monitoring results, including population, habitat and water quality. The trigger events were developed with reference to the EPBC Act triggers endorsed for Growling Grass Frog populations at other offset sites and sites containing a significant population (Ecology and Heritage Partners 2024a). There are currently no guidelines for determining unacceptable population change and total. Local extinction risk is more commonly measured by the probability of occupied wetlands</p>	3.10.1 5.2	Ongoing. Year 2 GGF monitoring undertaken by Ecology and Heritage Partners over the 2025-2026 breeding season.

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
			<p>declining below a threshold, however given only two wetlands are proposed for construction, population levels are considered a more appropriate indicator (DELWP 2017).</p> <p>4. If, after implementation of contingency management actions, monitoring results indicates a continued decline in the Growling Grass Frog population or degradation of Growling Grass Frog habitat, the OMP will be re-evaluated and adapted accordingly.</p>		
2 and ongoing	<p>16. Management of Constructed Wetland Hydroperiod</p> <p>Water levels will be checked monthly over the species breeding season (October to March).</p>	Following completion of construction of wetland and ongoing	<p>Design features and active management to be implemented:</p> <ol style="list-style-type: none"> 1. Balog Channel water will be the initial water source for the constructed wetlands. Groundwater and direct rainwater will be the primary ongoing water source for the constructed wetlands, with recycled water providing a supplementary water source. 2. The wetlands will contain a drainage outlet at the lowest point of the waterbody for removing some or all water from the system. 3. Water levels will be checked monthly over the species breeding season (October to March). 4. Depth gauges will be installed in all ponds, and wetland depth will be monitored monthly for the first two years following construction. 	3.7	Ongoing. Water level checks undertaken during monitoring surveys.
2 and ongoing	<p>17. Management of Wetland Hydroperiod</p> <p>Water levels will be actively checked monthly over the species breeding season (October to March).</p>	Following completion of construction of wetland and ongoing	<p>Design features and active management to be implemented:</p> <ol style="list-style-type: none"> 1. Water quality and levels within the constructed wetland will be regularly monitored as part of the monitoring program outlined in the Section 3.10.1 of GGFCMP. 2. A depth gauge will be installed in the constructed wetland. 	3.7 3.10	Ongoing.
1 to 10	<p>18. Annual Monitoring Reporting and Review.</p> <p>A summary of the results of all monitoring procedures,</p>	Annual reporting as required	<ol style="list-style-type: none"> 1. The annual audit will outline the progress of the CMP implementation and identify any key issues and management responses. 2. Management actions may need to be amended or updated if new information becomes available, or if management actions are considered inappropriate or 	3.11	Complete (Ecology and Heritage Partners 2026).

Year	Objective	Timing of activity	Standard to be achieved	Related section(s) of GGFCMP	Status
	habitat creation (i.e. wetlands) and any maintenance activities will be provided to DCCEEW on an annual basis throughout the 10-year implementation of the CMP.		<p>inadequate for the long-term persistence of Growling Grass Frog within the site.</p> <p>3. New information may become available through ongoing monitoring procedures or following review of ongoing reporting submitted to DCCEEW. Recommendations based on this information will be provided to the responsible land manager.</p> <p>4. In addition to revisions triggered by adaptive management, additional changes to this CMP may be required following the EPBC Act assessment and approval process.</p> <p>Any proposed amendments or deviations to the actions and requirements of this CMP must be approved by DCCEEW, and the plan must be updated with any approved changes.</p>		

3.5 EPBC Act Approval Conditions Compliance Table

The following section demonstrates compliance or non-compliance with all conditions of the EPBC Act approval (2022/9357).

Table 6. EPBC Act Approval Conditions and Compliance Table

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
1	a. The approval holder must not clear more than 16.502 hectares of Growling Grass Frog dispersal and foraging habitat within the project area.	Compliant.	The approval holder has not cleared more than 16.502 hectares of Growling Grass Frog (GGF) dispersal and foraging habitat.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
	b. The approval holder must not clear outside of the project area.	Compliant.	During site visits, Ecology and Heritage Partners did not observe that the approval holder had cleared outside of the project area.
2	The approval holder must implement the Weed Management Plan until the expiry of this approval.	Compliant.	A weed management plan has been prepared (Ecology and Heritage Partners 2024a). Weed monitoring has been undertaken September, October 2025 and January 2026 (Appendix 3).
3	The approval holder must implement the Stormwater Management Plan until the expiry of this approval.	Compliant.	A stormwater management strategy has been prepared and implemented (Stormy Water Solutions Consulting Pty Ltd 2022).
4	The approval holder must implement the Construction Environmental Management Plan until the expiry of this approval.	Compliant.	Construction Environmental Management Plan has been prepared and implemented.
5	The approval holder must install fencing along the fence line prior to construction of the residential development. The approval holder must retain and maintain the fencing until the expiry date of this approval.	Compliant.	Frog fencing is yet to be installed as successful migration into the offset wetlands is yet to occur.
6	To avoid and mitigate harm and compensate for the residual impact of the Action on Growling Grass Frog as a result of the Action, the approval holder must implement the Growling Grass Frog Management Plan for the life of this approval. The approval holder must implement all management actions in accordance with the Growling Grass Frog Management Plan and Offset Management Plan. In accordance with the Growling Grass Frog Management Plan and Offset Management Plan, the approval holder must: <ul style="list-style-type: none"> a) Create wetland habitat for Growling Grass Frog at the Constructed Growling Grass Frog Wetlands; 	Compliant	Constructed wetlands completed by 29 August 2025.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
	b) Commence enhancement of the Growling Grass Frog Terrestrial Habitat prior to the breeding season;	Compliant	Enhancement of terrestrial habitat undertaken via weed and biomass control.
	c) Notify the department in writing of the completion of creating wetland habitat for Growling Grass Frog at the Constructed Growling Grass Frog Wetland within 5 business days of the Growling Grass Frog wetland habitat creation being completed;	Not compliant (corrected)	Construction of wetland habitat was completed by 29 th August 2025. Notice of completion was provided by the proponent to Ecology and Heritage Partners on 29 September 2025. This was not communicated to the department until 20 th January 2026, when it became evident that this communication to the department had not occurred.
	d) Not commence construction of the residential development prior to end of the first breeding season that commences after the completion of the Constructed Growling Grass Frog Wetland created in accordance with the Offset Management Plan;	Compliant	Construction of residential development has not yet commenced.
	e) Not deconstruct any existing effluent ponds during the breeding season;	Compliant	Effluent ponds have not yet been deconstructed.
	f) Monitor the population of Growling Grass Frog so that any trigger event will be detected promptly.	Compliant	Growling Grass Frog monitoring has been undertaken as per the OMP.
7	To compensate for the residual impact of the Action on Growling Grass Frog as a result of the Action, the approval holder must implement the Offset Management Plan at least until the expiry date of this approval.	Compliant	The approval holder has commenced management and monitoring activities in accordance with the Offset Management Plan.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
8	To compensate for the residual impact of the Action on Growling Grass Frog as a result of the Action, the approval holder must ensure that the created Growling Grass Frog wetlands support a viable population.	Compliant / Not applicable	Monitoring to date has included assessment for evidence of GGF migration to the constructed wetlands, as per the OMP and GGFCMP. No evidence of GGF has been recorded to date in the constructed wetlands. While a viable population is yet to be established at the constructed wetlands, this is not a requirement of the GGFCMP until two years post-construction of wetlands. The GGFCMP states that contingency management actions will be taken in the event that <3 individuals are recorded across the entire offset site for each of the first two years.
9	The approval holder must provide the department, prior to each anniversary of the date of this approval decision, an annual report detailing the results of the population and habitat monitoring, as specified in sections 5.6.13, 5.7 and 5.8 of the Offset Management Plan and section 3.10 of the Growling Grass Frog Management Plan.	Compliant	This Annual Compliance Report details the results of the population and habitat monitoring undertaken post-approval, as specified in the GGFCMP. Ecology and Heritage Partners submitted the current Year 2 Post-Approval Compliance Report via email epbcmonitoring@dceew.gov.au on 03/03/2026.
10	The approval holder must, within 2 business days of detecting that a trigger event has occurred, notify the department in writing that a trigger event has occurred.	Compliant / Not applicable	No trigger events have occurred. Monitoring to date has been undertaken to review the construction of wetlands, establish background condition (i.e. water quality) of constructed wetlands, measure weed monitoring progress, and assess for GGF migration to the constructed wetlands, as per the OMP and GGFCMP. Trigger values do not yet apply.
11	If a trigger event occurs, the approval holder must, within 30 business days of the trigger event provide the department with a revised Growling Grass Frog Management Plan for approval. The revised plan must include;:	Compliant / Not applicable	No trigger events have occurred. Monitoring to date has been undertaken to review the construction of wetlands, establish background condition (i.e. water quality) of constructed wetlands, measure weed monitoring progress, and assess for GGF migration to the constructed wetlands, as per the OMP and GGFCMP. Trigger values do not yet apply.
	a. a description of the trigger event and potential causes;	Compliant / Not applicable	No trigger events have occurred.
	b. contingency management measures to be implemented;	Compliant / Not applicable	No trigger events have occurred.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
			Monitoring to date has been undertaken to review the construction of wetlands, establish background condition (i.e. water quality) of constructed wetlands, measure weed and pest management progress, and assess for GGF migration to the constructed wetlands, as per the OMP and GGFCMP. Trigger values do not yet apply.
	c. a monitoring protocol to review the effectiveness of the contingency management measures.	Compliant / Not applicable	No trigger events have occurred. Monitoring to date has been undertaken to review the construction of wetlands, establish background condition (i.e. water quality) of constructed wetlands, measure weed and pest management progress, and assess for GGF migration to the constructed wetlands, as per the OMP and GGFCMP. Trigger values do not yet apply.
12	If the revised Growling Grass Frog Management Plan has not been approved by the Minister in writing within 3 months of the date on which the approval holder submitted the revised Growling Grass Frog Management Plan to the Department for approval, and the Minister notifies the approval holder that the submitted revised Growling Grass Frog Management Plan is not suitable for approval, the Minister may, at least one month after notifying the approval holder that the submitted revised Growling Grass Frog Management Plan is not suitable for approval, approve a version of the Growling Grass Frog Management Plan revised by the Department. The approval holder must implement the Growling Grass Frog Management Plan as approved by the Minister until the expiry of this approval.	Compliant / Not applicable	No revisions to the GGFCMP have occurred.
13	To compensate for the residual impact of the Action on Growling Grass Frog, the approval holder must temporarily secure the onsite offset site prior to undertaking any construction of the Residential Development. The onsite offset site must remain temporarily secured at least until the: <ul style="list-style-type: none"> a) Creation of the Constructed Growling Grass Frog Wetlands has been completed; b) The onsite offset site is secured. 	Compliant	A Section 173 Agreement has not yet been entered into by the approval holder, but the approval holder is negotiating and preparing it and will secure it prior to commencement of construction of the residential development and within three years after completing construction of the wetland habitat.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
14	To compensate for the residual impact of the Action on Growling Grass Frog as a result of the Action, the approval holder must secure the onsite offset site no later than 3 years after completing construction of the wetland habitat for Growling Grass Frog at the Constructed Growling Grass Frog Wetlands. The approval holder must ensure the onsite offset site remains secured at least until the expiry date of this approval.	Compliant	A Section 173 Agreement has not yet been entered into by the approval holder, but the approval holder is negotiating and preparing it and will secure it prior to commencement of construction of the residential development and within three years after completing construction of the wetland habitat.
15	The approval holder may, at any time, apply to the Minister for a variation to an action management plan approved by the Minister or as subsequently revised in accordance with the following conditions, by submitting an application in accordance with the requirements of section 143A of the EPBC Act. If the Minister approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previous action management plan.	Compliant	No applications for a revised action management plan (RAMP) have been lodged by the approval holder.
16	The approval holder may choose to revise an action management plan approved by the Minister under condition 2, 3 and 4, or as subsequently revised in accordance with these conditions, without submitting it for approval under section 143A of the EPBC Act, if the taking of the Action in accordance with the RAMP would not be likely to have a new or increased impact.	Compliant / Not applicable	No applications for a revised action management plan (RAMP) have been lodged by the approval holder.
17	If the approval holder makes the choice under condition 16 to revise an action management plan without submitting it for approval, the approval holder must: <ul style="list-style-type: none"> a) Notify the department electronically that the approved action management plan has been revised and provide the department with: <ul style="list-style-type: none"> i) An electronic copy of the RAMP. 	Compliant / Not applicable	No applications for a revised action management plan (RAMP) have been lodged by the approval holder.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
	<ul style="list-style-type: none"> ii) An electronic copy of the RAMP marked up with track changes to show the differences between the approved action management plan and the RAMP. iii) An explanation of the differences between the approved action management plan and the RAMP. iv) The reasons the approval holder considers that taking the Action in accordance with the RAMP would not be likely to have a new or increased impact. v) Written notice of the date on which the approval holder will implement the RAMP (RAMP implementation date), being at least 20 business days after the date of providing notice of the revision of the action management plan, or a date agreed to in writing with the department. <p>b) Subject to condition 19, implement the RAMP from the RAMP implementation date.</p>		
18	<p>The approval holder may revoke its choice to implement a RAMP under condition 16 at any time by giving written notice to the department. If the approval holder revokes the choice under condition 16 the approval holder must implement the action management plan in force immediately prior to the revision undertaken under condition 16.</p>	Compliant / Not applicable	No applications for a revised action management plan (RAMP) have been lodged by the approval holder.
19	<p>If the Minister notifies the approval holder that the Minister is satisfied that the taking of the Action in accordance with the RAMP would be likely to have a new or increased impact, then:</p> <ul style="list-style-type: none"> a) Condition 16 does not apply, or ceases to apply, in relation to the RAMP. b) The approval holder must implement the action management plan specified by the Minister in the notice. 	Compliant	No applications for a revised action management plan (RAMP) have been lodged by the approval holder.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
20	At the time of giving the notice under condition 19, the Minister may also notify that for a specified period of time, condition 16 does not apply for one or more specified action management plans.	Compliant	No applications for a revised action management plan (RAMP) have been lodged by the approval holder.
21	The approval holder must notify the department electronically of the date of commencement of the Action, within 5 business days following commencement of the Action.	Compliant	The action commenced on 14 February 2025, and a letter was provided to the department on the same day to epbcmonitoring@dcceew.gov.au.
22	The approval holder must not Commence the Action later than 5 years after the date of this approval decision.	Compliant	The action commenced on 14 February 2025, which is within 5 years from the date of approval (i.e. 5 March 2024).
23	a. The approval holder must maintain accurate and complete compliance records.	Compliant	Accurate and complete compliance records have been kept for all aspects of this project. Detailed record-keeping will continue to be kept for the remainder of the life of the project.
24	If the department makes a request in writing, the approval holder must provide electronic copies of compliance records to the department within the timeframe specified in the request	Compliant / Not Applicable	No request has been made to date.
25	The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guidelines for biological survey and mapped data, Commonwealth of Australia 2018, or as otherwise specified by the Minister in writing	Compliant / Not Applicable	The GGFCMP and WMP were published on the Ecology and Heritage PARTners website and provided to DCCEEW on 24/01/2024 for public exhibition. These management plans are still available on the website via the following link: https://www.ehpartners.com.au/files/documents-for-exhibitions/2.%2016303_EHP_PD_78-88GrovesRd_Final_08012024.pdf .

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
			This link has been provided to DCCEEW along with all Offset Site shapefiles and relevant data.
26	The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guide to providing maps and boundary data for EPBC Act projects, Commonwealth of Australia 2021, or as otherwise specified by the Minister in writing.	Compliant / Not Applicable	<p>The GGFCMP and WMP were published on the Ecology and Heritage PARTners website and provided to DCCEEW on 24/01/2024 for public exhibition.</p> <p>These management plans are still available on the website via the following link: https://www.ehpartners.com.au/files/documents-for-exhibitions/2.%2016303_EHP_PD_78-88GrovesRd_Final_08012024.pdf.</p> <p>This link has been provided to DCCEEW along with all Offset Site shapefiles and relevant data.</p>
27	The approval holder must submit all monitoring data (including sensitive ecological data), surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the department within 20 business days of each anniversary of the date of this approval decision	Compliant	<p>The GGFCMP and WMP were published on the Ecology and Heritage PARTners website and provided to DCCEEW on 24/01/2024 for public exhibition.</p> <p>These management plans are still available on the website via the following link: https://www.ehpartners.com.au/files/documents-for-exhibitions/2.%2016303_EHP_PD_78-88GrovesRd_Final_08012024.pdf.</p> <p>This link has been provided to DCCEEW along with all Offset Site shapefiles and relevant data.</p> <p>This year's monitoring data will be submitted to the department within 20 business of 5 March 2026.</p>
28	The approval holder must prepare a compliance report for each 12-month period following the date of this approval decision (or as otherwise agreed to in writing by the Minister)	Compliant	<p>The Year 1 compliance report was published on Jinding's website and a link provided to DCCEEW epbcmonitoring@dcceew.gov.au on 28/02/2025.</p> <p>The current Year 2 compliance report will be published on Jinding's website and a link provided to DCCEEW epbcmonitoring@dcceew.gov.au.</p>

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
29	Each compliance report must be consistent with the Annual Compliance Report Guidelines, Commonwealth of Australia 2023.	Compliant	The Year 1 compliance report was published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au on 28/02/2025. The current Year 2 compliance report will be published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au.
30	Each compliance report must include: a. Accurate and complete details of compliance and any non-compliance with the conditions and the plans, and any incidents.;	Compliant	The Year 1 compliance report was published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au on 28/02/2025. The current Year 2 compliance report will be published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au.
	b. One or more shapefile showing all clearing of protected matters, and/or their habitat, undertaken within the 12-month period at the end of which that compliance report is prepared.	Compliant	No clearing of protected matters has occurred to date.
	c. A schedule of all plans in existence in relation to these conditions and accurate and complete details of how each plan is being implemented.	Compliant	Sections 3.4 and 3.5 of this compliance report outline a schedule of all plans in existence in relation to these conditions and accurate and complete details of how each plan is being implemented.
31	The approval holder must: a) Publish each compliance report on the website within 60 business days following the end of the 12-month period for which that compliance report is required	Compliant	The Year 1 compliance report was published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au on 28/02/2025. The current Year 2 compliance report will be published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au.
	b) Notify the department electronically, within 5 business days of the date of publication that a compliance report has been published on the website	Compliant	The Year 1 compliance report was published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au on 28/02/2025. The current Year 2 compliance report will be published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au.
	c) Provide the weblink for the compliance report in the notification to the department	Compliant	The Year 1 compliance report was published on Jinding's website and a link provided to DCCEEW epbmonitoring@dceew.gov.au on 28/02/2025.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
			The current Year 2 compliance report will be published on Jinding's website and a link provided to DCCEEW epbcmonitoring@dcceew.gov.au .
	d) Keep all published compliance reports required by these conditions on the website until the expiry date of this approval	Compliant	All compliance reports will remain on the website until expiry date of this approval.
	e) Exclude or redact sensitive ecological data from compliance reports published on the website or otherwise provided to a member of the public	Compliant / Not applicable	No sensitive ecological data is contained within any published compliance reports to date.
	f) If sensitive ecological data is excluded or redacted from the published version, submit the full compliance report to the department within 5 business days of its publication on the website and notify the department in writing what exclusions and redactions have been made in the version published on the website	Compliant / Not applicable	No sensitive ecological data is contained within any published compliance reports to date.
32	The approval holder must notify the department electronically, within 2 business days of becoming aware of any incident and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a plan	Compliant	No incidents have occurred. Practical completion occurred on 29 th August 2025. Potential non-compliance of approval condition 6c was recorded on 20/01/2026 with no record of notification to DCCEEW of practical completion of landscape construction works for the constructed wetland. DCCEEW was notified of this potential non-compliance on the same day (20/01/2026) and a completion letter was provided to epbcmonitoring@dcceew.gov.au .
33	The approval holder must specify in the notification: <ul style="list-style-type: none"> a) Any condition or commitment made in a plan which has been or may have been breached. b) A short description of the incident and/or potential non-compliance and/or actual non-compliance 	Compliant	No incidents have occurred. Practical completion occurred on 29 th August 2025. Potential non-compliance of approval condition 6c was recorded on 20/01/2026 with no record of notification to DCCEEW of practical completion of landscape construction works for the constructed wetland. DCCEEW was notified of this potential non-compliance on the same day (20/01/2026) and a completion letter was provided to epbcmonitoring@dcceew.gov.au .

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
	c) The location (including co-ordinates), date and time of the incident and/or potential non-compliance and/or actual non-compliance		
34	<p>The approval holder must provide to the department in writing, within 12 business days of becoming aware of any incident and/or potential non-compliance and/or actual non-compliance, the details of that incident and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a plan. The approval holder must specify:</p> <ul style="list-style-type: none"> a) Any corrective action or investigation which the approval holder has already taken. b) The potential impacts of the incident and/or non-compliance c) The method and timing of any corrective action that will be undertaken by the approval holder. 	Compliant	<p>No incidents have occurred.</p> <p>Practical completion occurred on 29th August 2025. Potential non-compliance of approval condition 6c was recorded on 20/01/2026 with no record of notification to DCCEEW of practical completion of landscape construction works for the constructed wetland. DCCEEW was notified of this potential non-compliance on the same day (20/01/2026) and a completion letter was provided to epbcmonitoring@dcceew.gov.au.</p>
35	The approval holder must ensure that an independent audit of compliance with the conditions is conducted for every five-year period following the commencement of the Action until this approval expires (unless otherwise specified in writing by the Minister)	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.
36	<p>For each independent audit, the approval holder must:</p> <ul style="list-style-type: none"> a) Provide the name and qualifications of the nominated independent auditor, the draft audit criteria, and proposed timeframe for submitting the audit report to the department prior to commencing the independent audit. 	Compliant / Not applicable	The Minister has not requested in writing that any independent audits are undertaken.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
	b) Only commence the independent audit once the nominated independent auditor, audit criteria and timeframe for submitting the audit report have been approved in writing by the department.	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.
	c) Submit the audit report to the department for approval within the timeframe specified and approved in writing by the department	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.
	d) Publish each audit report on the website within 15 business days of the date of the department's approval of the audit report.	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.
	e) Keep every audit report published on the website until this approval expires.	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.
37	Each audit report must report for the five-year period preceding that audit report.	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.
38	Each audit report must be completed to the satisfaction of the Minister and be consistent with the Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines, Commonwealth of Australia 2019.	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.
	Each audit report must be completed to the satisfaction of the Minister and be consistent with the Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines, Commonwealth of Australia 2019.	Compliant / Not Applicable	The Minister has not requested in writing that any independent audits are undertaken.

Condition Number	Condition	Is the project compliant with this condition?	Evidence/Comments/Corrections
39	The approval holder must notify the department electronically 60 business days prior to the expiry date of this approval, that the approval is due to expire.	Compliant / Not Applicable	The approval is not due to expire.
40	Within 20 business days after the completion of the Action, and, in any event, before this approval expires, the approval holder must notify the department electronically of the date of completion of the Action and provide completion data. The approval holder must submit any spatial data that comprises completion data as a shapefile.	Compliant / Not Applicable	Completion of the action has not yet occurred.

4 CONCLUSION AND RECOMMENDATIONS

Year 2 post-approval monitoring confirmed that construction of the dedicated Growling Grass Frog wetlands and associated habitat works has been completed in accordance with the requirements of the GGFCMP and is functioning broadly as intended. Site inspections conducted throughout 2025 demonstrated that wetland construction, installation of rock beaching, placement of logs, and establishment of littoral, embankment and entry planting zones were completed by end of August 2025 and are progressing toward stable establishment. Vegetation growth was confirmed during November 2025 GGF monitoring, indicating early establishment of structural components required for foraging and refuge habitat.

Monitoring of GGF activity recorded individuals only within the southern effluent pond, with no detections within the created wetlands across four nocturnal surveys undertaken between November 2025 and February 2026. Although overall GGF numbers across the broader site (and neighbouring wetlands) were lower than previous years, no population-based trigger thresholds were met, and habitat quality within the created wetlands was assessed as moderate, with suitable fringing, emergent and open-water areas available for future colonisation.

Water quality monitoring indicated progressive improvement following construction. Turbidity in Wetland 1 dropped from 56 NTU in October to within target range by November, while Wetland 2 remained consistently low throughout the season. Phosphorus declined to the ≤ 0.1 mg/L trigger by late spring, and dissolved oxygen remained within suitable amphibian thresholds. Electrical conductivity (EC) stayed within recommended limits, though consistently higher in Wetland 2. Total nitrogen remained above the interim trigger in both wetlands but trended downward over the monitoring period. These trends are consistent with early-stage wetland establishment and expected stabilisation as planting becomes more established.

Weed control, rubbish removal and temporary exclusion fencing were implemented throughout the year, with ongoing reduction of woody weeds and annual grasses, though persistent patches of species such as African Boxthorn, Artichoke Thistle and Soursob remained in some locations and require continued targeted control. Pest animal monitoring recorded the presence of a Red Fox at the effluent ponds, with no evidence of predatory fish detected in created wetlands. Overall, monitoring results for Year 2 demonstrate continued compliance with EPBC approval conditions, progressive maturation of constructed habitat, and no requirement for contingency actions at this stage.

It is likely that a combination of minimal current protective cover for GGF due to aquatic vegetation still becoming established and below average spring-summer rainfall contributed to the lack of evidence of GGF colonisation of the created wetlands (Mahoney *et al.* 2004). These explanations remain speculative based on current evidence, and continued monitoring is required to differentiate short-term variation from emerging trends.

To ensure that GGF habitat continues to improve, the following works should be incorporated into Year 3 management and monitoring in accordance with and addition to GGFCMP management requirements (Ecology and Heritage Partners 2024a):

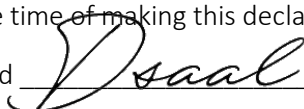
- Regularly consult an experienced zoologist for maintenance issues that could impact on the GGF population and associated habitat;

- Ongoing habitat and GGF monitoring as per the approved GGFCMP (Ecology and Heritage Partners 2024a;)
- Undertake routine monitoring to investigate the success of aquatic and terrestrial plant establishment and weed densities;
- Replace any failed plantings;
- Control any weeds invading terrestrial habitat by hand, or spot treatment methods with frog sensitive herbicides, or as advised by the Ecologist (e.g. Soursob control in winter 2026);
- Regular inspection of the fencing is required to ensure its effectiveness;
- The control of pest animals such as foxes and cats will be undertaken in accordance with local government laws and relevant legislation;
- Hygiene Protocol (Murray *et.al.* 2011) to be used to guide best practice Chytrid management;
- Complete and submit the application for the Section 173 Agreement to DEECA;
- Monitor the level of any public disturbance in and around GGF habitat and manage accordingly (e.g. fencing repairs and signage).

DECLARATION OF ACCURACY

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed



Full name (please print) Daniel Saal

Position (please print) Development Manager

Organisation (please print including ABN/ACN if applicable) AC Manager Pty Ltd (ACN 622 454 871)

Date 04 / 03 / 2026

REFERENCES

- DELWP 2017. Growling Grass Frog Habitat Design Standards, Melbourne Strategic Assessment. Published document prepared by the Department of Environment, Land, Water and Planning, Melbourne, Victoria.
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- Ecology and Heritage Partners 2024a. Growling Grass Frog *Litoria raniformis* Conservation Management Plan for the Proposed Development at 78-88 Groves Road, Armstrong Creek, Victoria (EPBC 2022/9357). Report prepared for AC Manager Ltd.
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- EPA 2018. State Environment Protection Policy: Water for Victoria. Environment Protection Authority Victoria, Melbourne.
- Heard, G., Robertson, P. and Scroggie, M.P. 2008. Microhabitat preferences of the endangered Growling Grass Frog *Litoria raniformis* in southern Victoria. *Australian Zoologist* **34(3)**: 414-425.
- Murray, K., Skerratt, L., Marantelli, G., Berger, L., Hunter, D., Mahony, M. and Hines, H. 2011. Hygiene protocols for the control of diseases in Australian frogs. A report for the Australian Government Department of Sustainability, Environment, Water, Population and Communities.

FIGURES

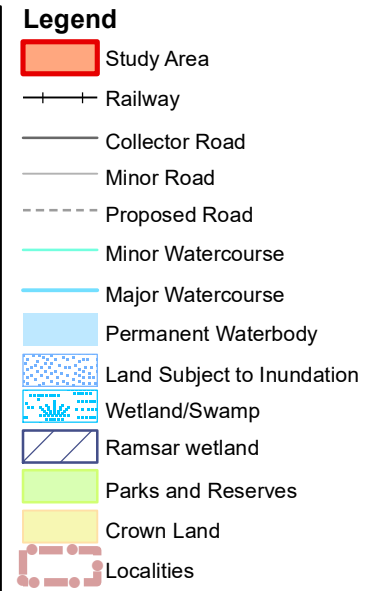
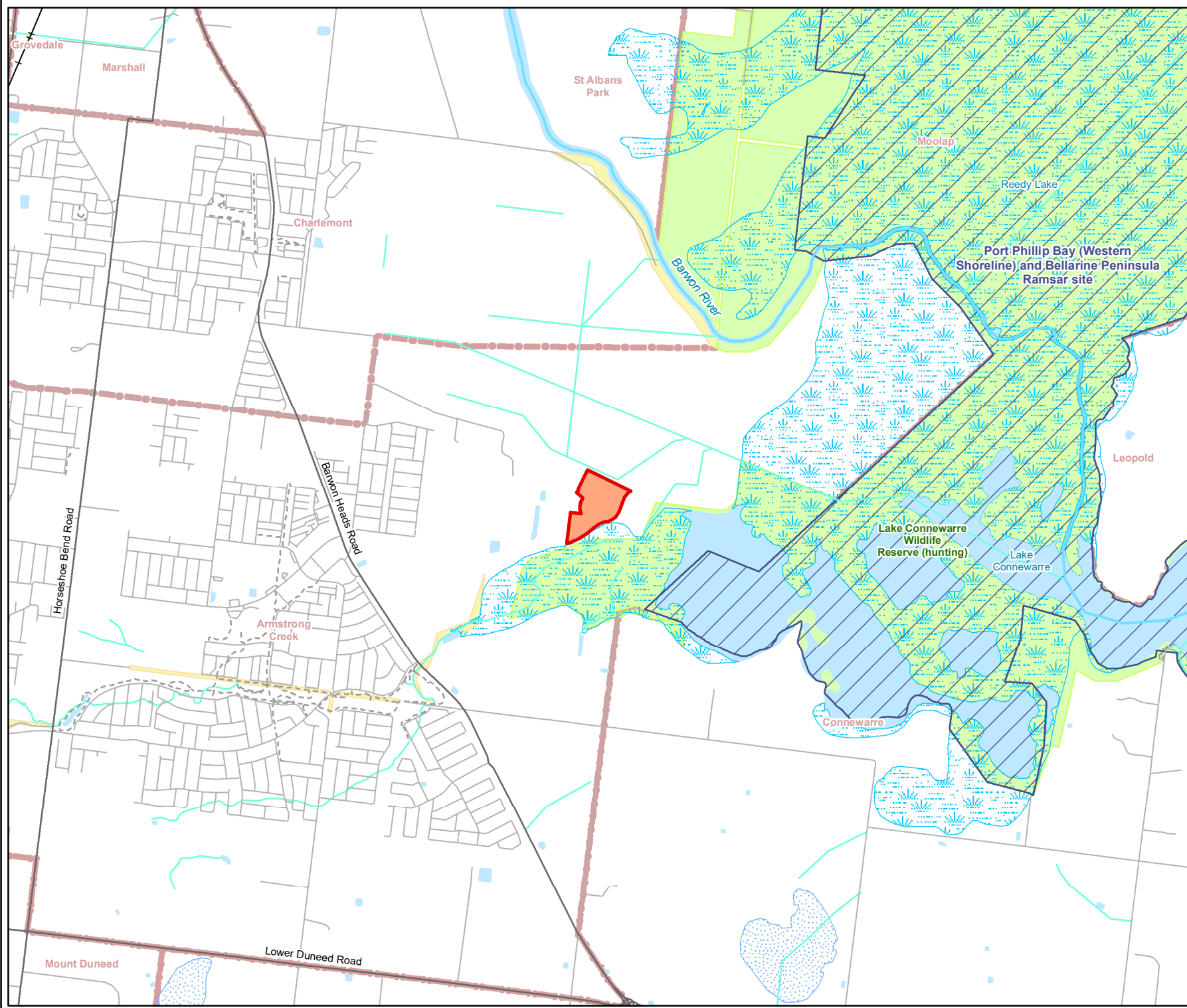
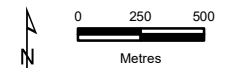


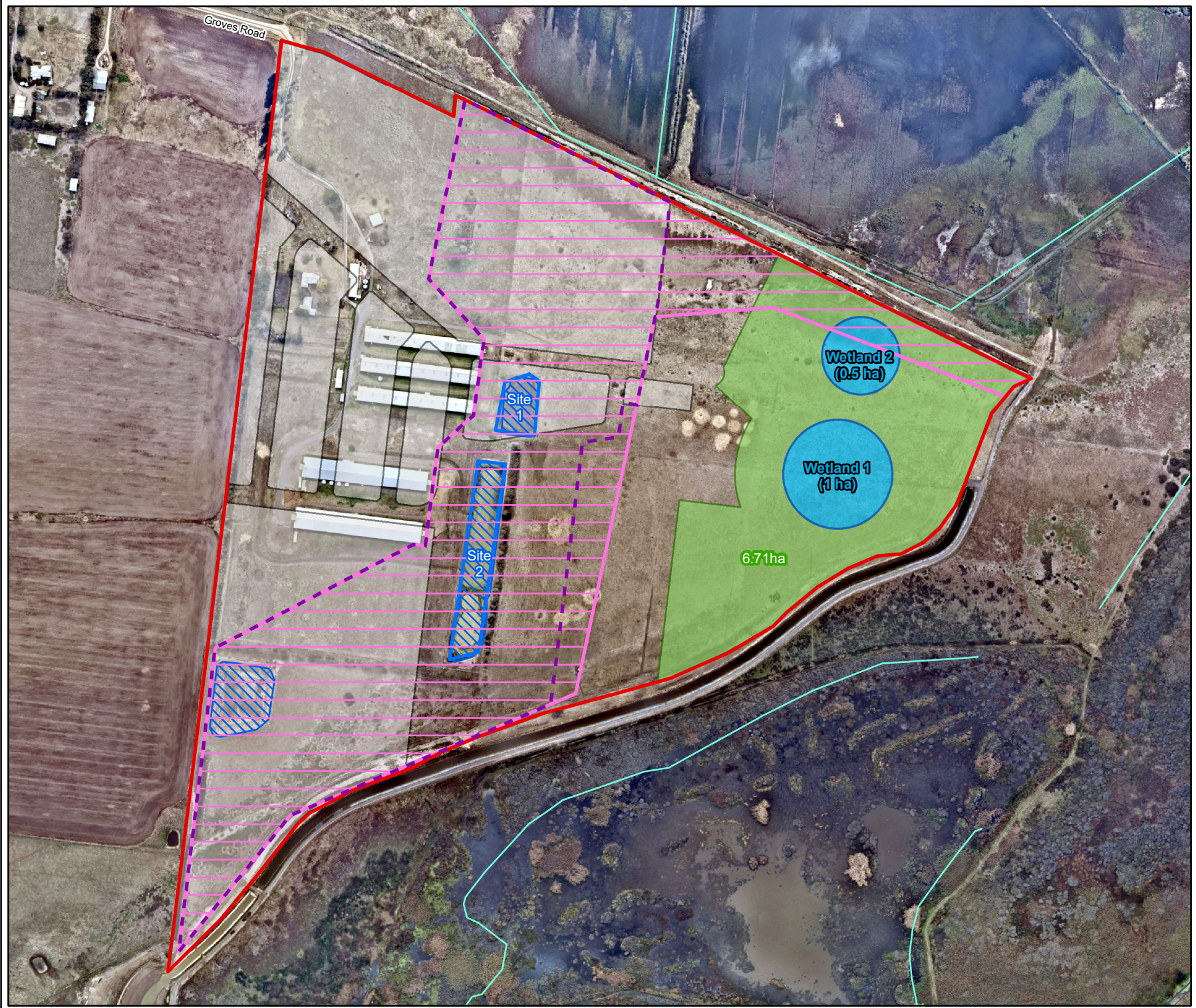
Figure 1
Location of the study area
Growing Grass Frog
Conservation Management
Plan for 78-88 Groves Road,
Armstrong Creek



Map Scale: 1:2,500,000 @ A4
 Coordinate System: GDA 1994 MGA Zone 55



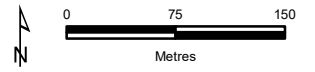
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- Legend**
- Study Area
 - Proposed Constructed Wetland Offset Areas
 - Proposed Constructed Terrestrial Habitat Offset Area
 - Existing dams
 - Survey sites
 - Growling Grass Frog foraging habitat
 - Growling Grass Frog foraging habitat impact area



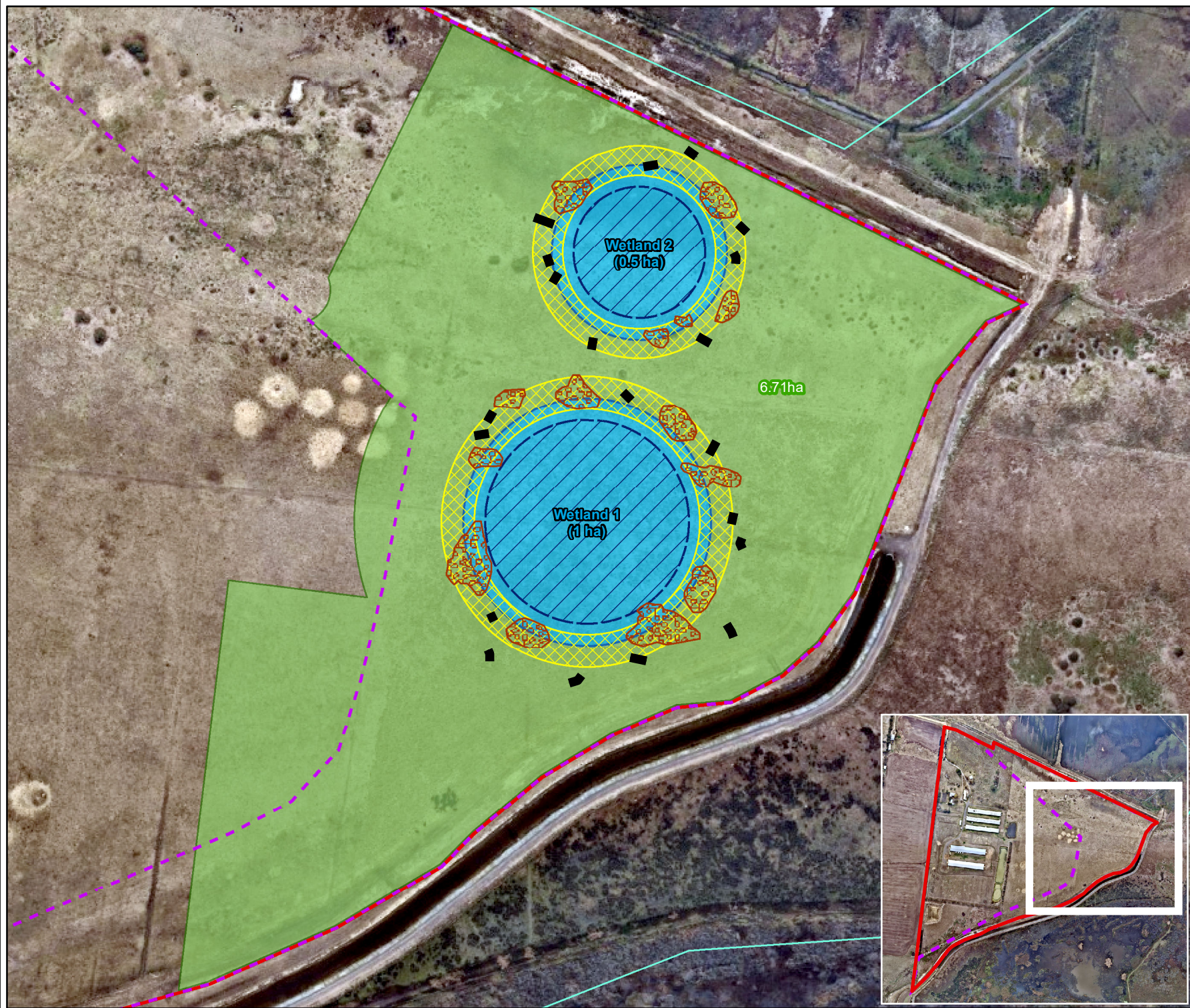
Figure 2
Proposed development plan
Growling Grass Frog
Conservation Management
Plan for 78-88 Groves Road,
Armstrong Creek



Map Scale: 1:5,200 @ A4
 Coordinate System: GDA 1994 MGA Zone 55



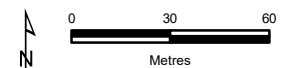
VicMap Data: The State of Victoria does not warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.



- Legend**
- Study Area
 - ESO2 extent
 - Proposed Constructed Wetland Offset Areas
 - Proposed Constructed Terrestrial Habitat Offset Area
 - Deep water submergent vegetation zone (>1.5m)
 - Emergent vegetation zone
 - Rock beds
 - Logs and woody debris



Figure 3
Conservation Management Plan for Growing Grass Frog
Growing Grass Frog Conservation Management Plan for 78-88 Groves Road, Armstrong Creek



Map Scale: 1:2,300 @ A4
 Coordinate System: GDA 1994 MGA Zone 55



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16303_Fig03_CMP_GGF_11/10/2023_dvaladares

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271000

271200

271400

271600

271800

5766000

5765800

5765600

5765400

5765200



Legend

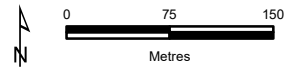
- Study Area
- Proposed Constructed Terrestrial Habitat Offset Area
- Existing dams

Stages

- 1. Waterbodies constructed (Autumn)
- 2. GGF migration period (Spring/ Summer)
- 3. Installation of frog exclusion, dog exclusion, safety and sediment fencing
- 4. Removals of dams following successful GGF migration



Figure 4
Constructed Wetlands Staging and Frog Migration Offset Management Plan for 78-88 Groves Road, Armstrong Creek



Map Scale: 1:5,500 @ A4
 Coordinate System: GDA 1994 MGA Zone 55



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APPENDICES

Appendix 1 – Photopoint Locations and Details



Photopoint 1a, Wetland 2

Description of location: western side of Wetland 2

Direction: North

Date photo taken: 22 September 2025

Description: Constructed Wetland 2, Placement of logs and rocks, planting location (with jute matting)



Photopoint 1b, Wetland 2

Description of location: western side of Wetland 2

Direction: East

Date photo taken: 22 September 2025

Description: Constructed Wetland 2, Placement of logs and rocks, planting location (with jute matting)



Photopoint 1c, Wetland 2

Description of location: western side of Wetland 2

Direction: South

Date photo taken: 22 September 2025

Description: Constructed Wetland 2, Short, grassy terrestrial habitat



Photopoint 1d, Wetland 2

Description of location: western side of Wetland 2

Direction: West

Date photo taken: 22 September 2025

Description: Short, grassy terrestrial habitat



Photopoint 2a, Wetland 2

Description of location: northern side of Wetland 2

Direction: North

Date photo taken: 22 September 2025

Description: Looking towards neighbouring Sparrovale wetlands



Photopoint 2b, Wetland 2

Description of location: northern side of Wetland 2

Direction: East

Date photo taken: 22 September 2025

Description: Looking towards neighbouring Sparrovale and Baenchs wetlands



Photopoint 2c, Wetland 2

Description of location: northern side of Wetland 2

Direction: South

Date photo taken: 22 September 2025

Description: Constructed Wetland 2, planting location (with jute matting)



Photopoint 2d, Wetland 2

Description of location: northern side of Wetland 2

Direction: West

Date photo taken: 22 September 2025

Description: Constructed Wetland 2, Rock beaching and large logs, planting location (with jute matting)



Photopoint 3a, Wetland 1

Description of location: eastern side of Wetland 1

Direction: North

Date photo taken: 22 September 2025

Description: Constructed Wetland 1, Short, grassy terrestrial habitat



Photopoint 3b, Wetland 1

Description of location: eastern side of Wetland 1

Direction: East

Date photo taken: 22 September 2025

Description: Constructed Wetland 1, Short, grassy terrestrial habitat



Photopoint 3c, Wetland 1

Description of location: eastern side of Wetland 1

Direction: South

Date photo taken: 22 September 2025

Description: Constructed Wetland 1, Rock beaching, large log placement, planting location (with jute matting)



Photopoint 3d, Wetland 1

Description of location: eastern side of Wetland 1

Direction: West

Date photo taken: 22 September 2025

Description: Constructed Wetland 1, planting location (with jute matting)

Appendix 2 – Landscape Plan

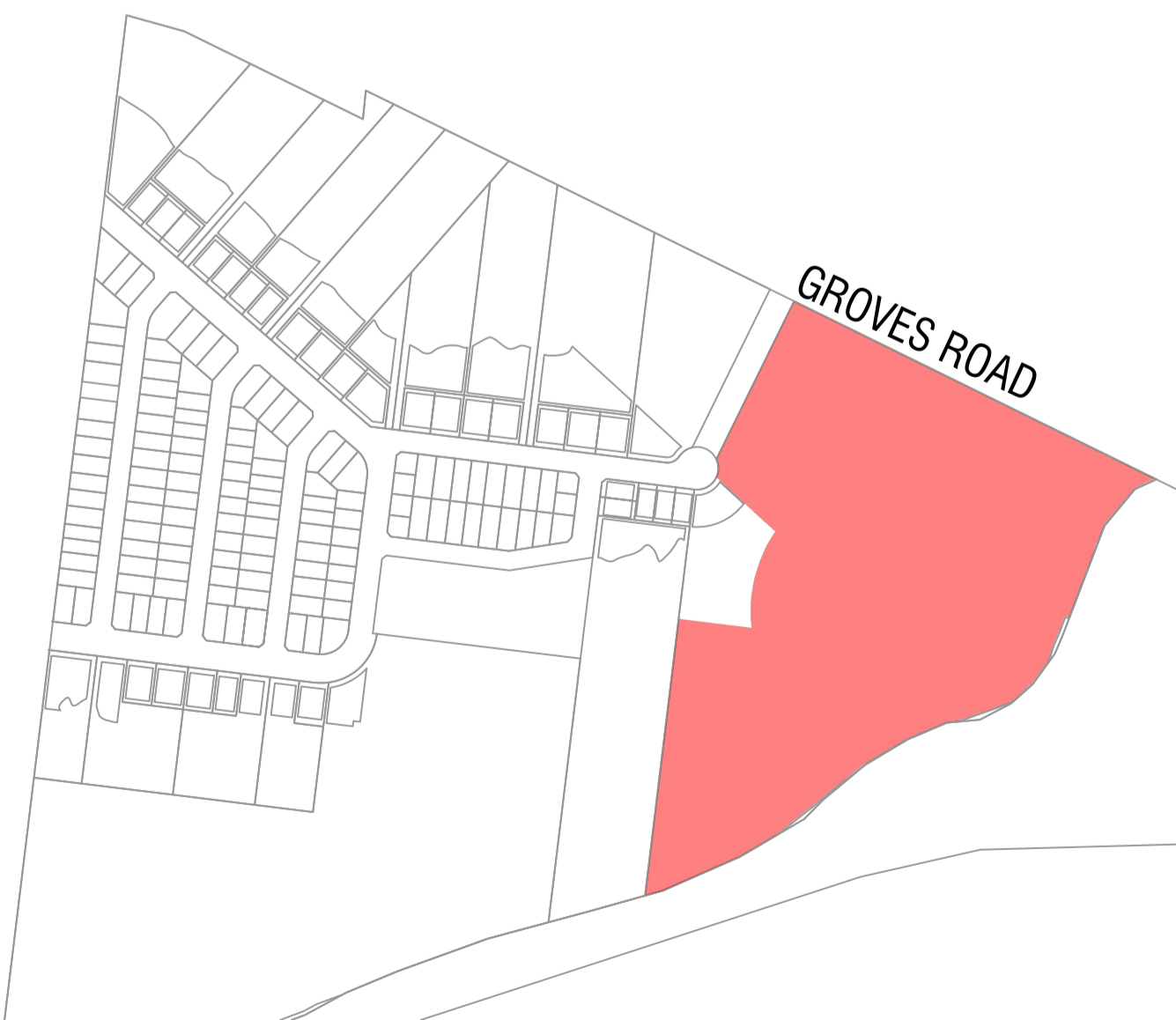
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GGF PONDS

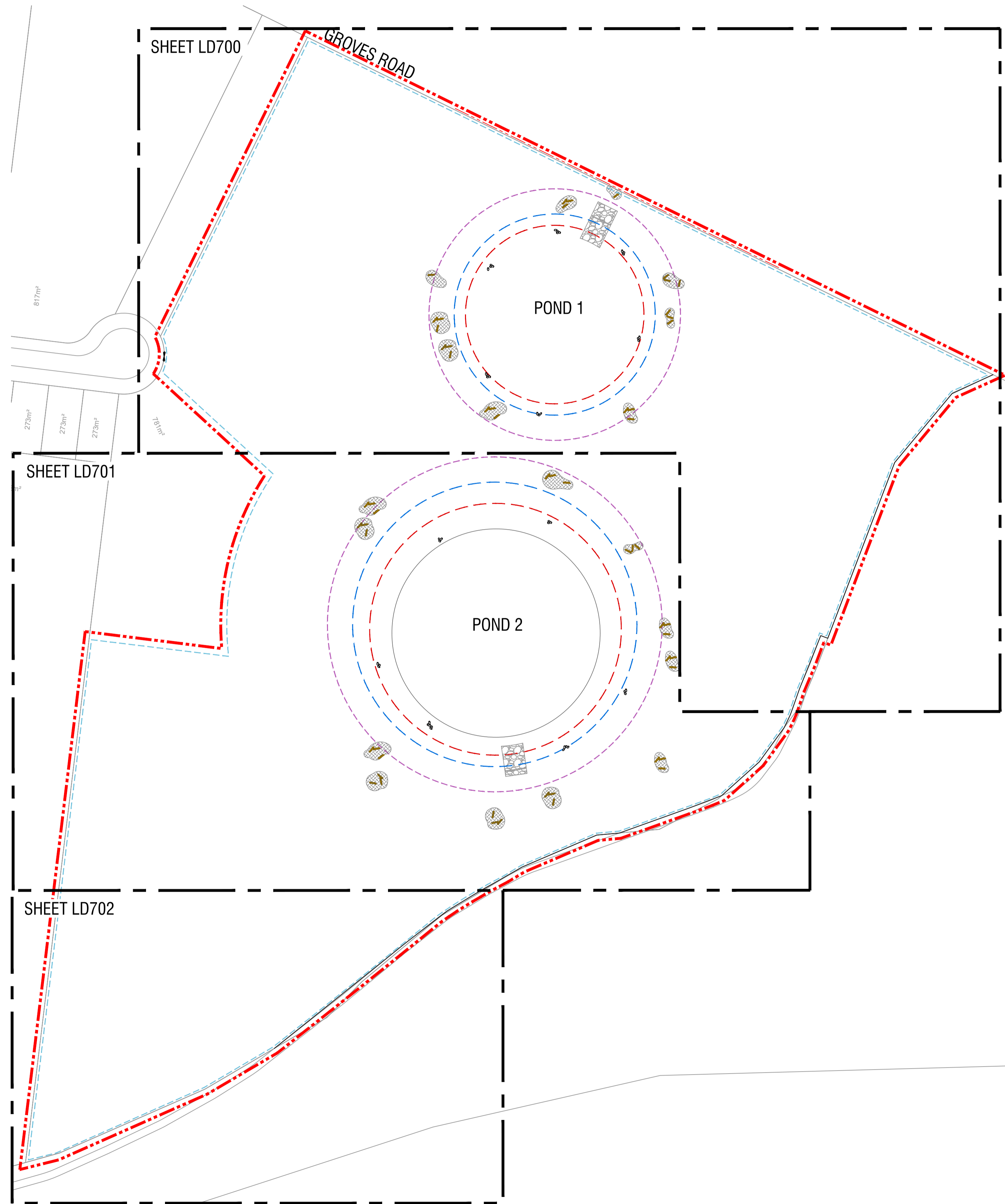
PROJECT NUMBER: 309950
LANDSCAPE ARCHITECTURE DRAWINGS
FOR JINDING

DRAWING SCHEDULE

DRAWING NO.	DESCRIPTION	SHEET NO.	REVISION
LD100	COVER - SHEET 1	1	0
LD200	SCHEDULES - SHEET 1	2	0
LD700	PLANTING PLANS - SHEET 1	3	0
LD701	PLANTING PLANS - SHEET 2	4	0
LD702	PLANTING PLANS - SHEET 3	5	0
LD900	DETAILS - SHEET 1	6	0
LD901	DETAILS - SHEET 2	7	0



1 SITE LOCATION
Scale 1:10000 @ A1



2 GGF PONDS 1 & 2
Scale 1:1000 @ A1

GENERAL NOTES

- Unless otherwise specified on the drawings all measurements, lengths, heights and distances to be determined from dimensions and NOT scaled off the drawings.
- Before commencement of any works it is the responsibility of the Landscape Contractor to contact Dial Before You Dig 1100 (Fax 1300 652 077) for information on services in the area shown on the plan (www.dialbeforeyoudig.com.au)
- The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. The Contractor shall verify the location and depth of all services prior to commencing on site.
- The Contractor must have a copy of Melbourne One Call/Services information and plans on site at all times.
- The Contractor shall be liable for any damage to services during landscape works.
- All trees shall be planted in locations shown on this plan, with setback to be approved on site by the Superintendent prior to planting.
- Tree canopies are shown at 75% of mature diameter.
- Any change in plant species must have the approval of the Superintendent.
- Trees shall not be planted less than the following distances from existing elements, unless otherwise stated in the documentation:
 - Pedestrian pathways - 1.2m
 - Pedestrian pathways in reserve - 2.0m
 - Driveways and crossovers - 3.0m
 - Stormwater and sewerage pits - 2.0m
 - Intersections - 10.0m
 - Service crossings - 2.0m
 - Back of Kerb - 1.0m min.
 - Street lights and power poles - 4.0m
 - Service assets, incl. junction boxes, pits etc - 2.0m
 - Fire plugs - 3.0m
- The Superintendent is to inspect trees supplied by the Contractor prior to planting.
- The Principal will ensure that all property boundaries are to be pegged out by licensed surveyors prior to set out of landscape works.
- All drawings 'For Construction' to be printed in colour.
- ALL TREE STOCK TO CONFORM TO AS 2303:2018; APPENDIX D.**

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10 MOORABOOL STREET GEELONG
VICTORIA 3220 AUSTRALIA T 61 3 5249 6888
www.spiire.com.au ABN 55 050 029 635

CONSTRUCTION

REV	DESCRIPTION	APP	DATE
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GGF PONDS

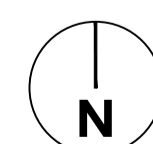
DETAILED DESIGN

COVER - SHEET 1

SHEET 1 OF 7

CITY OF GREATER GEELONG

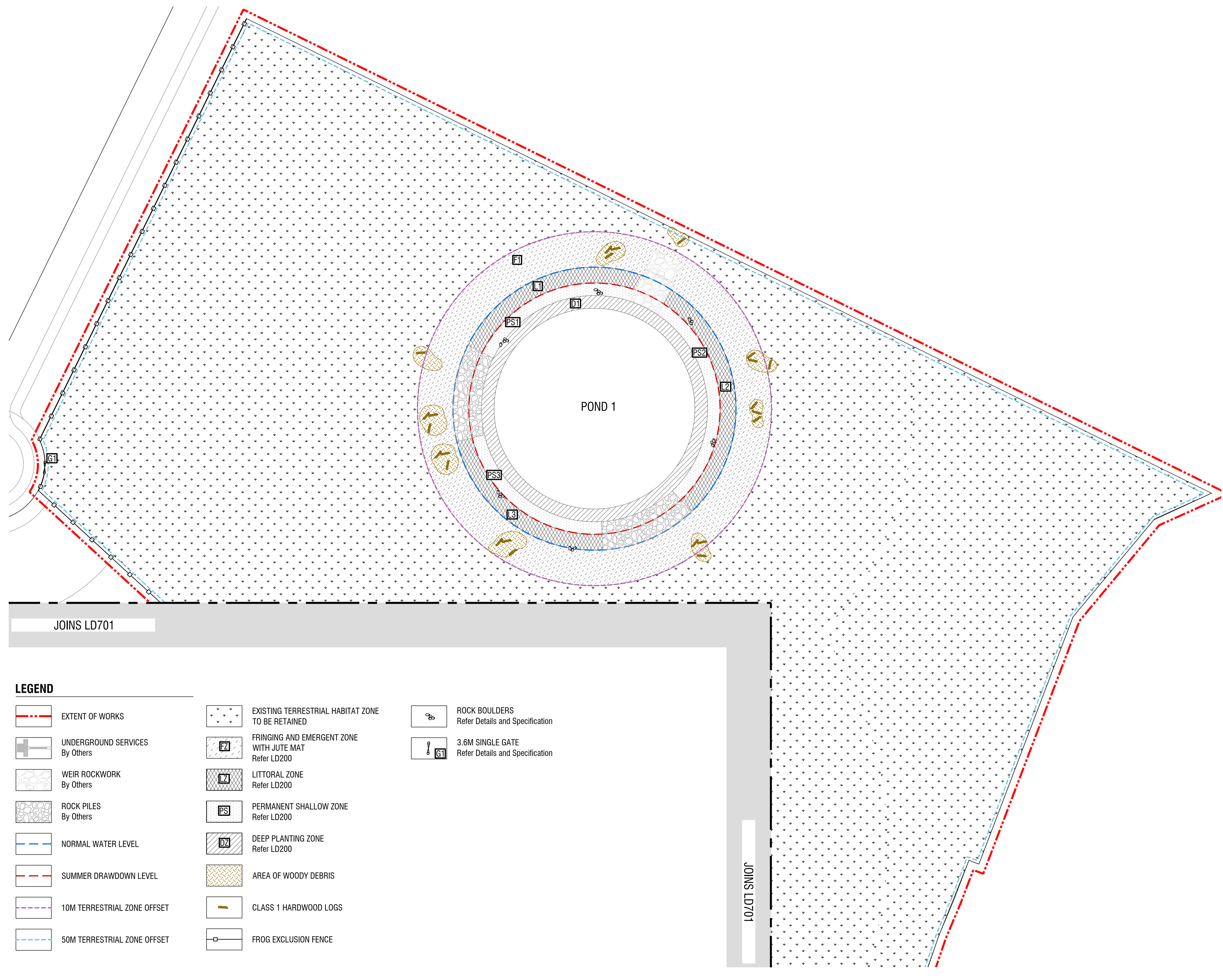
JINDING



MGA 94
ZONE

AS SHOWN

DESIGNED	DRAWN	CHECKED	APPROVED
AT	AT	JMI	SOC
DATE		DRG NO.	REV
18/06/2025		309950LD100	0



JOINS LD701

JOINS LD701

LEGEND

- EXTENT OF WORKS
- UNDERGROUND SERVICES
By Others
- WEIR ROCKWORK
By Others
- ROCK PILES
By Others
- NORMAL WATER LEVEL
- SUMMER DRAWDOWN LEVEL
- 10M TERRESTRIAL ZONE OFFSET
- 50M TERRESTRIAL ZONE OFFSET
- EXISTING TERRESTRIAL HABITAT ZONE
TO BE RETAINED
- FRINGING AND EMERGENT ZONE
WITH JUTE MAT
Refer LD200
- LITTORAL ZONE
Refer LD200
- PERMANENT SHALLOW ZONE
Refer LD200
- DEEP PLANTING ZONE
Refer LD200
- AREA OF WOODY DEBRIS
- CLASS 1 HARDWOOD LOGS
- FROG EXCLUSION FENCE
- ROCK BOULDERS
Refer Details and Specification
- 3.6M SINGLE GATE
Refer Details and Specification

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CONSTRUCTION

REV	DESCRIPTION	APP	DATE
0	ISSUE FOR CONSTRUCTION	SOC	08/06/25

**GROVES ROAD
GGF PONDS**

DETAILED DESIGN
PLANTING PLANS - SHEET 1
SHEET 3 OF 7
CITY OF GREATER GEELONG
JINDING

MGA 94 ZONE 1:500 SCALE @ A1

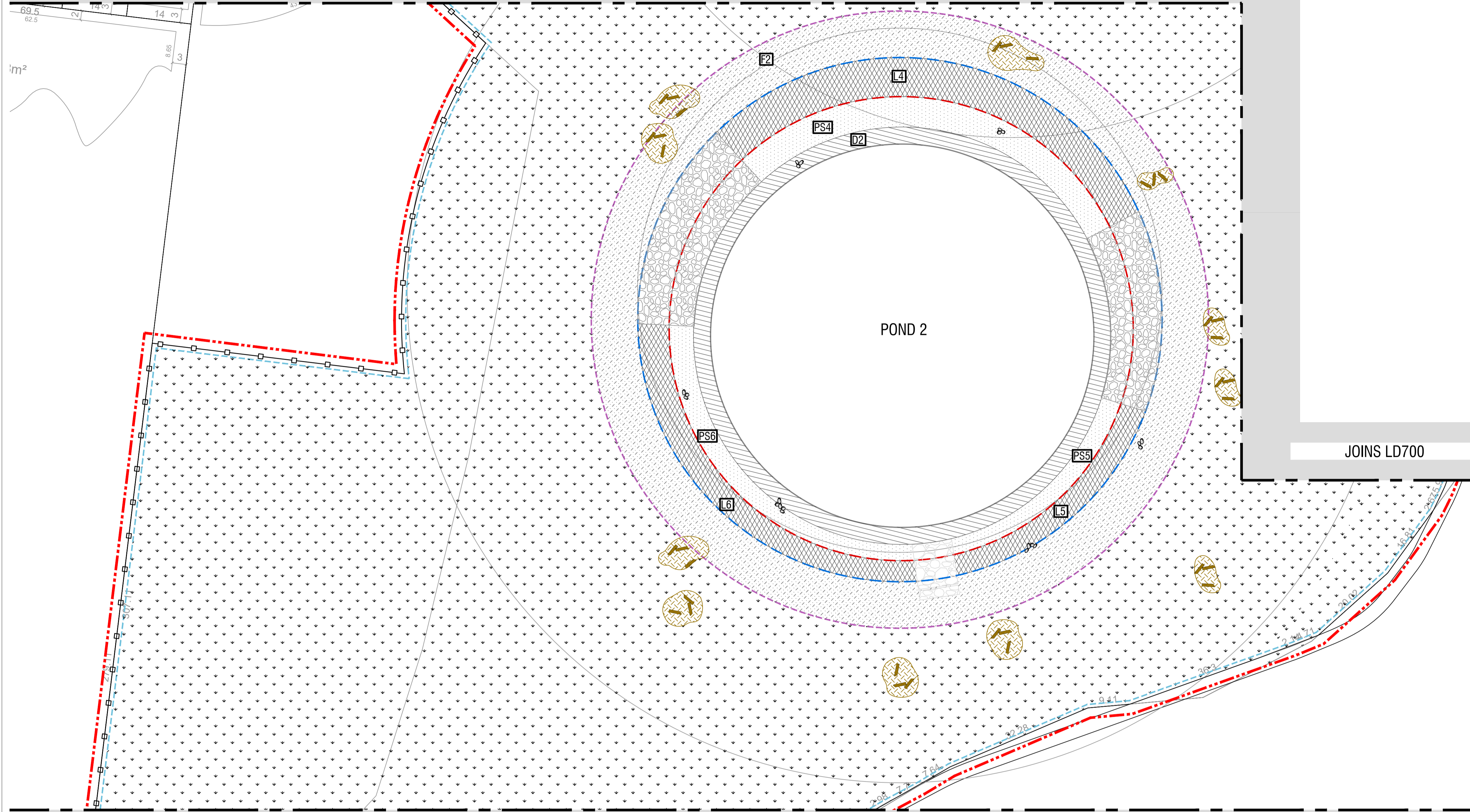
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DRAWN: AT
CHECKED: JMI
APPROVED: SOC

DATE: 18/06/2025
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REV: 0

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JOINS LD700

JOINS LD700






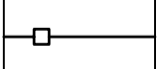







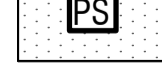





JOINS LD700

JOINS LD702

JOINS LD702

LEGEND

-  EXTENT OF WORKS
-  50M TERRESTRIAL ZONE OFFSET
-  CLASS 1 HARDWOOD LOGS
-  UNDERGROUND SERVICES
By Others
-  EXISTING TERRESTRIAL HABITAT ZONE
TO BE RETAINED
-  FROG EXCLUSION FENCE
-  WEIR ROCKWORK
By Others
-  FRINGING AND EMERGENT ZONE
WITH JUTE MAT
Refer LD200
-  ROCK BOULDERS
Refer Details and Specification
-  ROCK PILES
By Others
-  LITTORAL ZONE
Refer LD200
-  PERMANENT SHALLOW ZONE
Refer LD200
-  NORMAL WATER LEVEL
-  DEEP PLANTING ZONE
Refer LD200
-  SUMMER DRAWDOWN LEVEL
-  AREA OF WOODY DEBRIS
-  10M TERRESTRIAL ZONE OFFSET

NOTES

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REV	DESCRIPTION	APP	DATE

GROVES ROAD

GGF PONDS

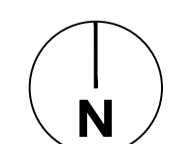
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PLANTING PLANS - SHEET 2

SHEET 4 OF 7

CITY OF GREATER GEELONG




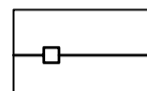
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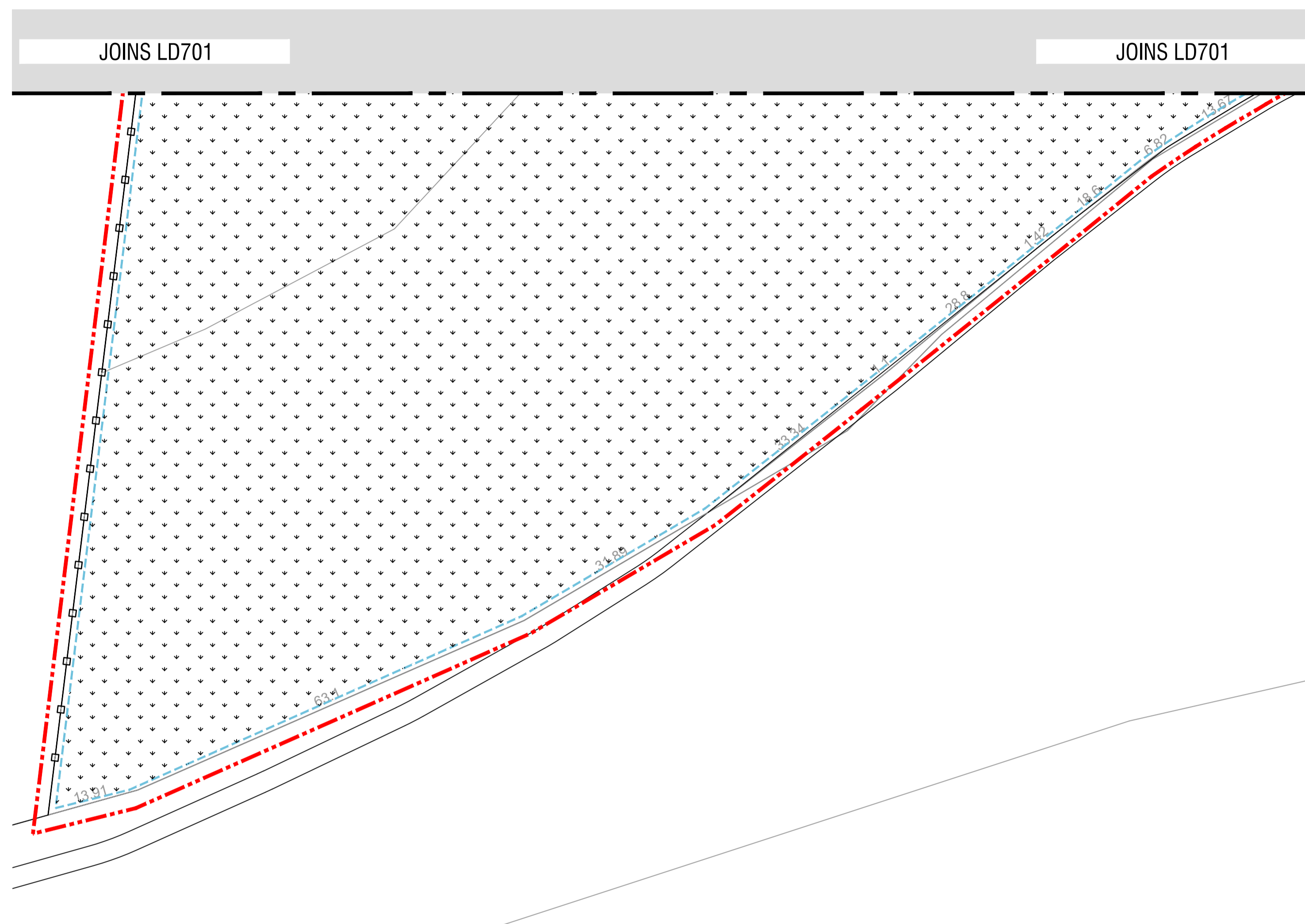


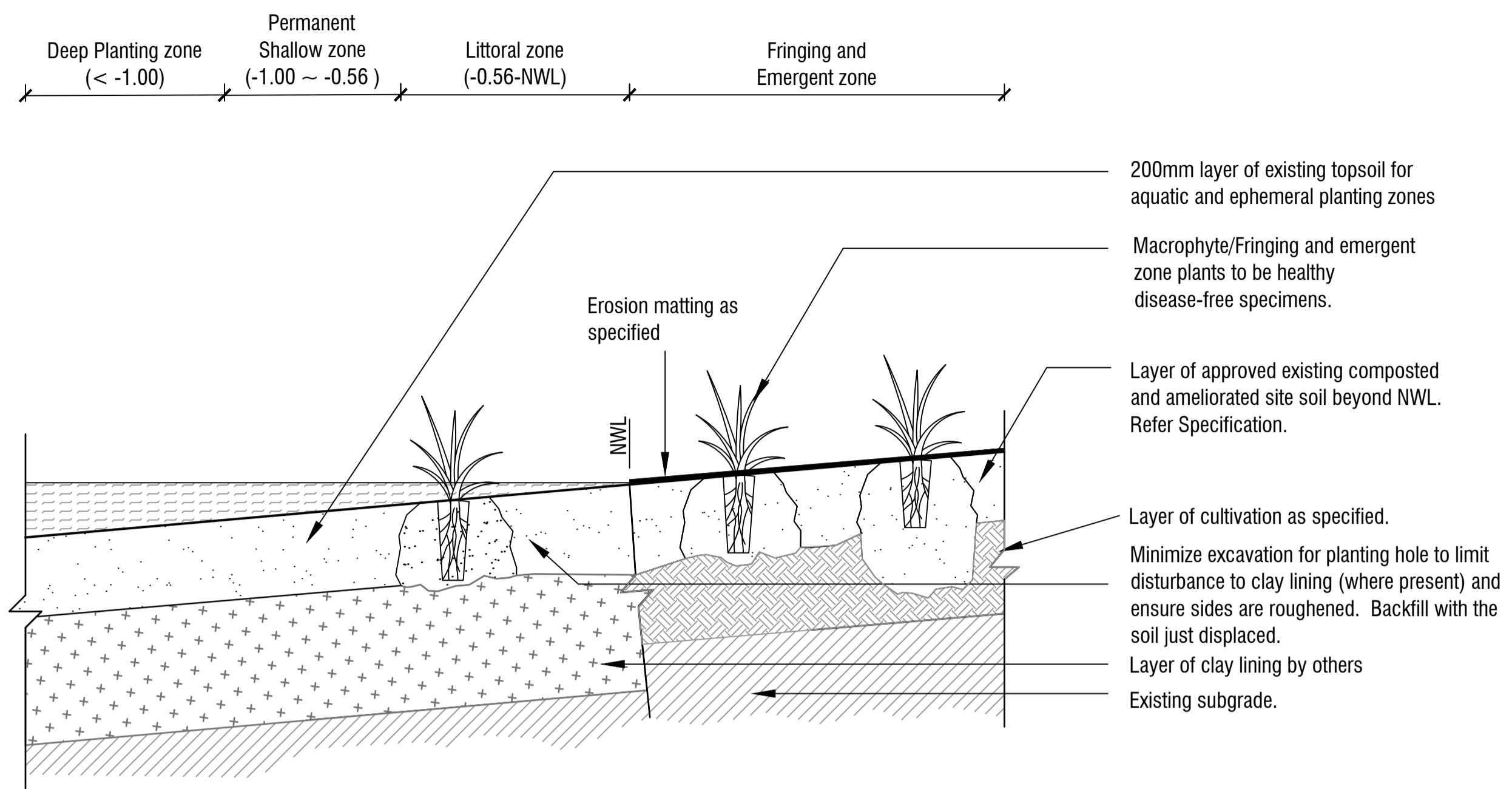
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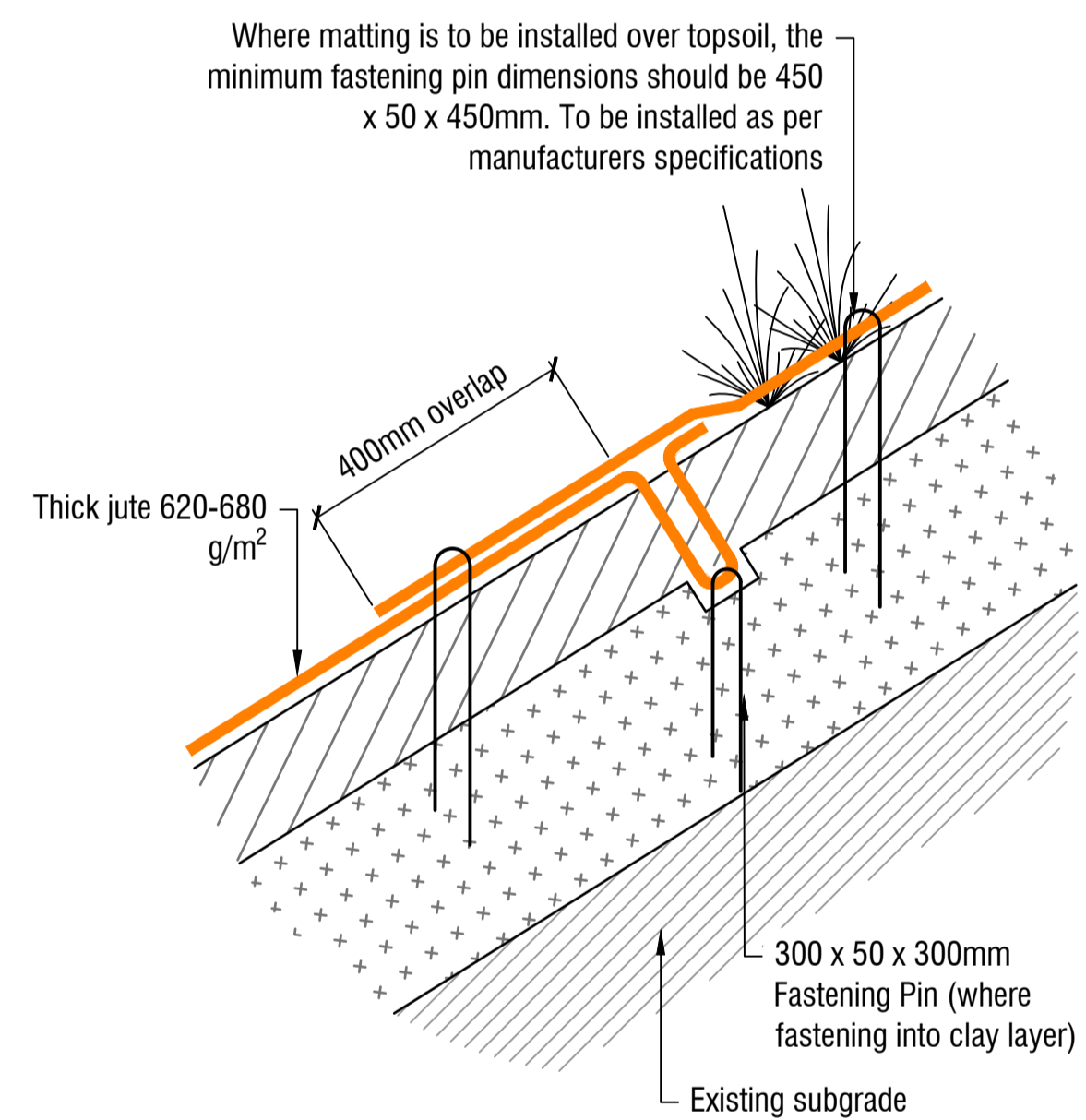
LEGEND

-  EXTENT OF WORKS
-  50M TERRESTRIAL ZONE OFFSET
-  EXISTING TERRESTRIAL HABITAT ZONE TO BE RETAINED
-  FROG EXCLUSION FENCE





1 MACHROPHYTE/FRINGING AND EMERGENT ZONE PLANTING DETAIL
Scale 1:10 @ A1



2 JUTE MATTING DETAIL
Scale 1:20 @ A1

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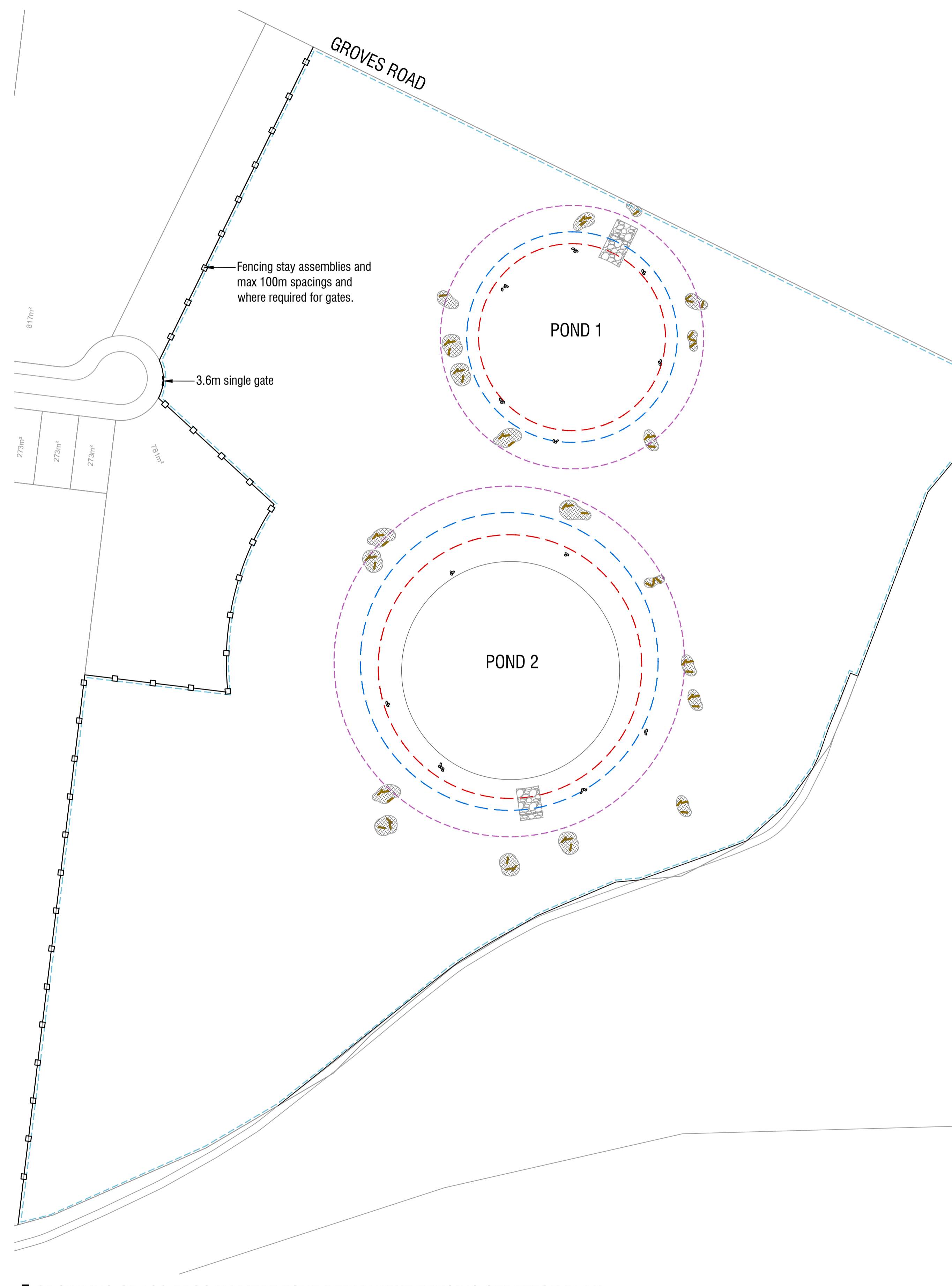
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CONSTRUCTION

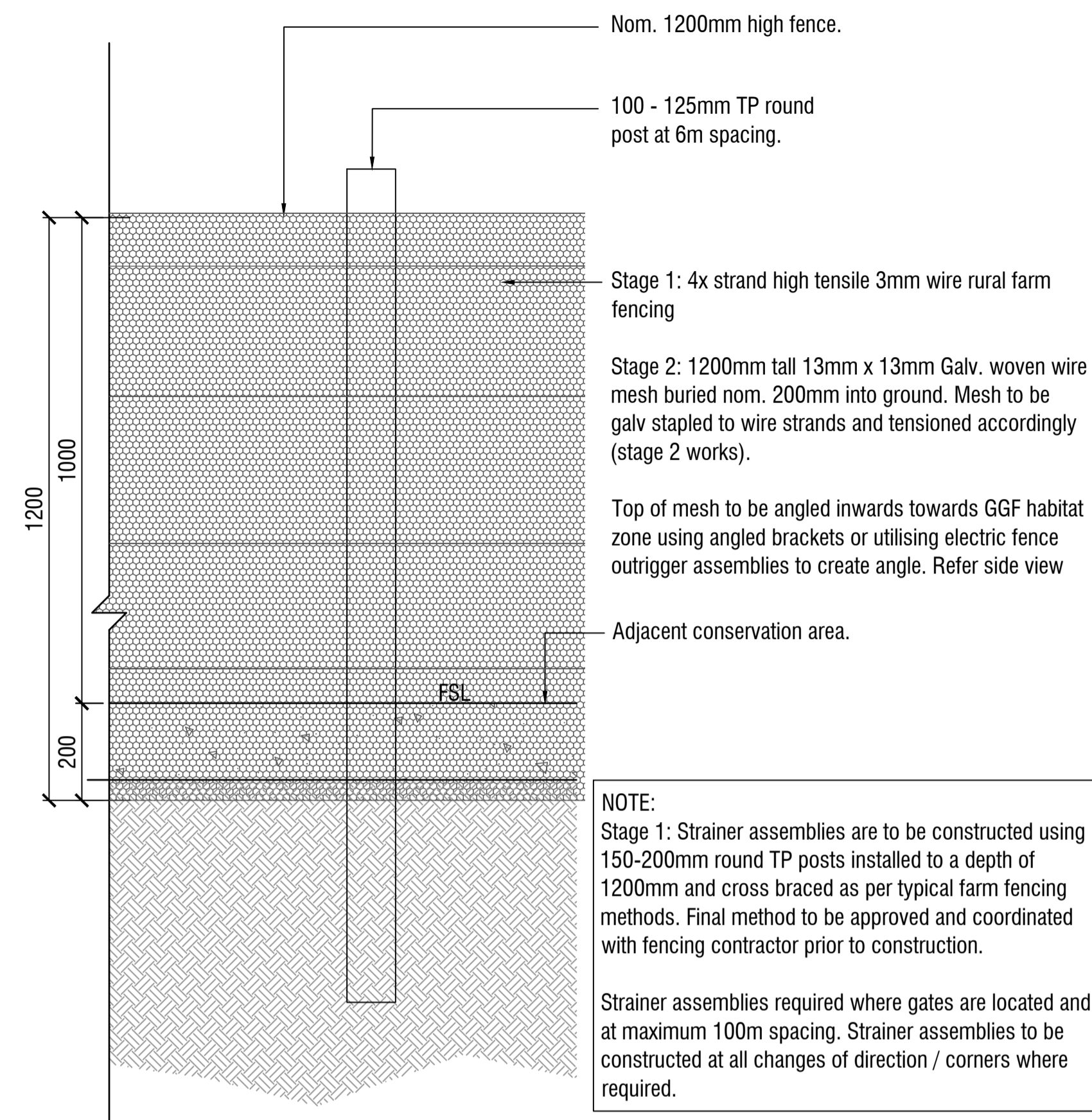
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REV	DESCRIPTION	APP	DATE

GROVES ROAD
GGF PONDS
DETAILED DESIGN
DETAILS - SHEET 1
SHEET 6 OF 7
CITY OF GREATER GEELONG
JINDING

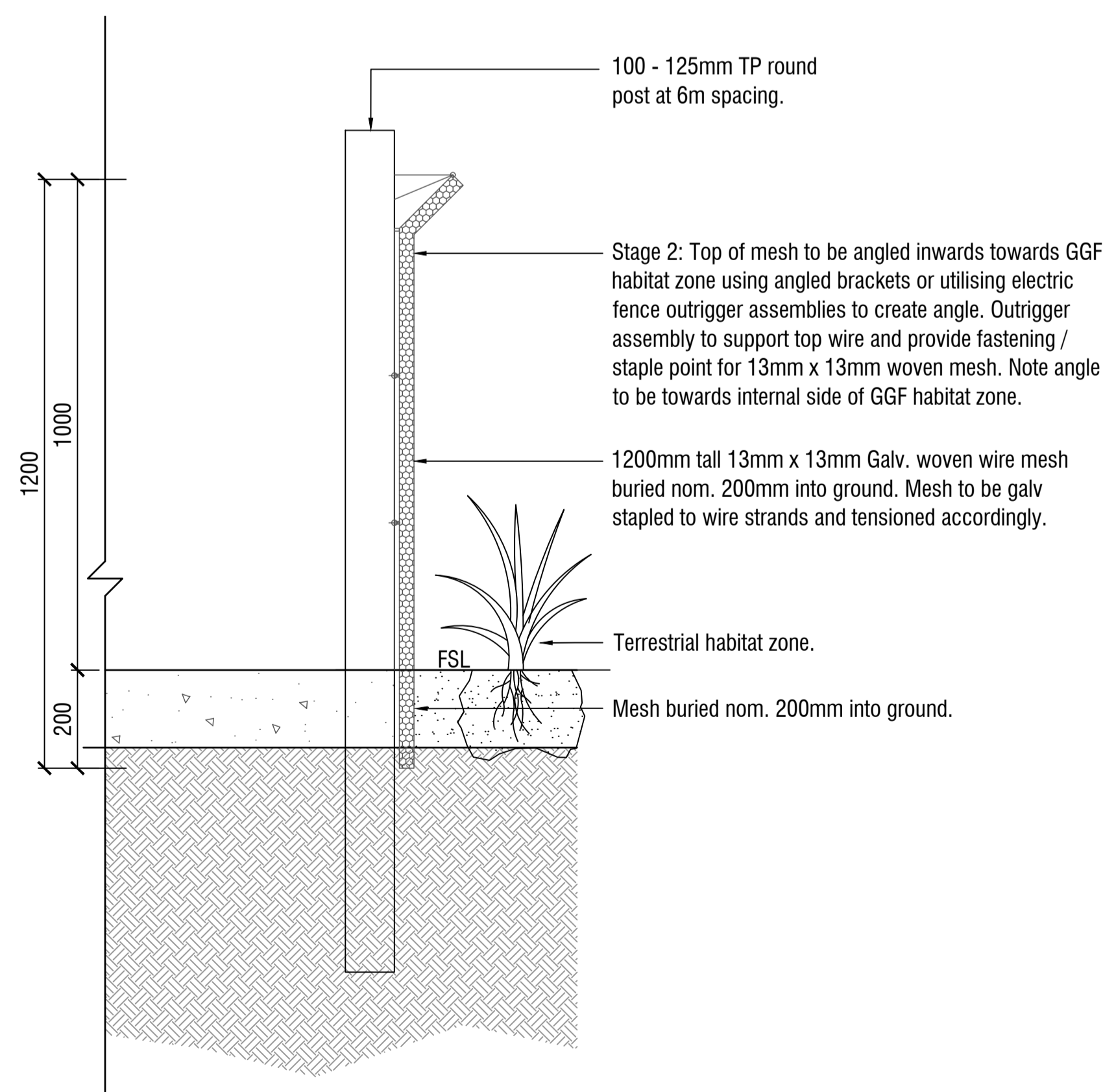
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18/06/2025	309950LD900	0	



1 GROWLING GRASS FROG HABITAT ZONE PERMANENT FENCING STRATEGY PLAN
Scale 1:1000 @ A1



2 1200mm HIGH PERMANENT GROWLING GRASS FROG HABITAT PROTECTION FENCE DETAIL
Scale 1:10 @ A1



3 1200mm HIGH PERMANENT GROWLING GRASS FROG HABITAT PROTECTION FENCE SECTION
Scale 1:10 @ A1

NOTE:
Permanent fencing strategy (including access gates etc) - fencing by others.

Note this is to be a coordinated 2 stage fencing strategy.

Stage 1: construction of 4x strand rural farm fence with 1x permanent gate location as shown (no mesh).

Stage 2: Following completion of all construction works and confirmation of successful GGF migration (inclusive of EHP relocated frogs) the 13mm x 13mm aperture woven mesh (inclusive of angled top section) is to be installed onto the rural style farm fence to create permanent protection fence for the GGF conservation zone. As per detail.

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CONSTRUCTION

REV	DESCRIPTION	APP	DATE
0	ISSUED FOR CONSTRUCTION	SOC	18/06/25

GROVES ROAD
GGF PONDS

DETAILED DESIGN
DETAILS - SHEET 2
SHEET 7 OF 7
CITY OF GREATER GEELONG
JINDING

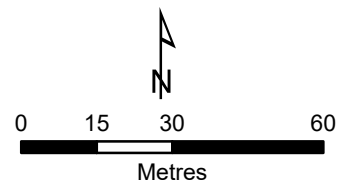
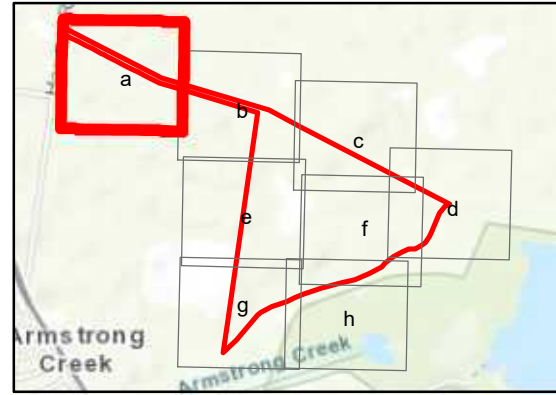
DESIGNED: **JMI** DRAWN: **JT** CHECKED: **JMI** APPROVED: **SOC**
DATE: **18/06/2025** DRG NO: **309950LD901** REV: **0**

Appendix 3 – Weed Control (Okologie Consulting)

Appendix 3a – October Weed Survey Results

Figure 2a
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

Legend
 Project Area



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500

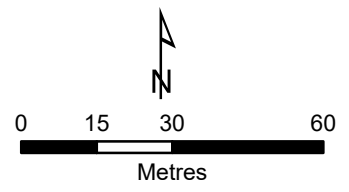
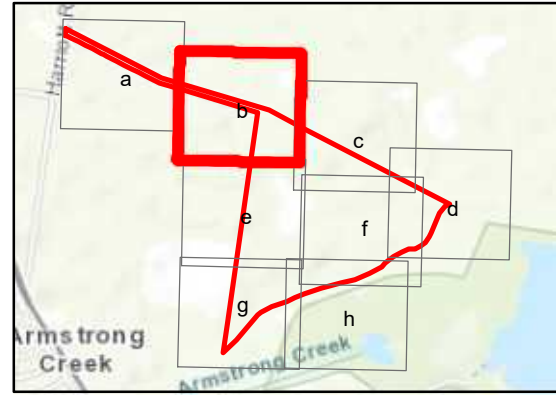


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Figure 2b
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn 5% Cover
 - Artichoke Thistle 5% Cover
 - Artichoke Thistle 20% Cover
 - Artichoke Thistle >50% Cover
 - African Boxthorn <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500




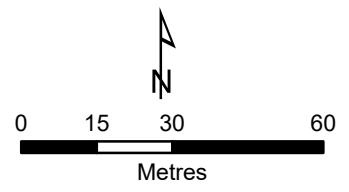
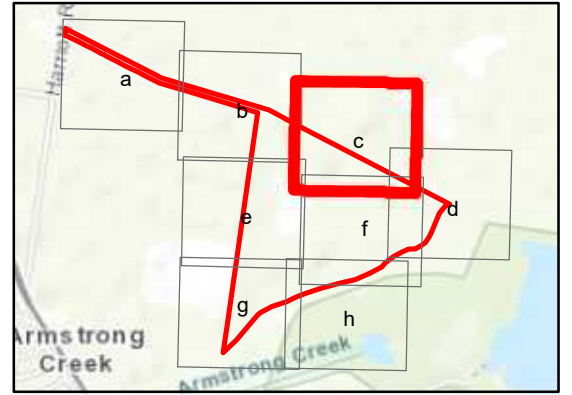
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Figure 2c
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
-  Project Area
 -  African Boxthorn 5% Cover
 -  Artichoke Thistle 5% Cover
 -  Artichoke Thistle 10% Cover
 -  Artichoke Thistle >50% Cover
 -  Spear Thistle and Bathurst Burr 5% Cover
 -  African Boxthorn <1% Cover
 -  Spear Thistle <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



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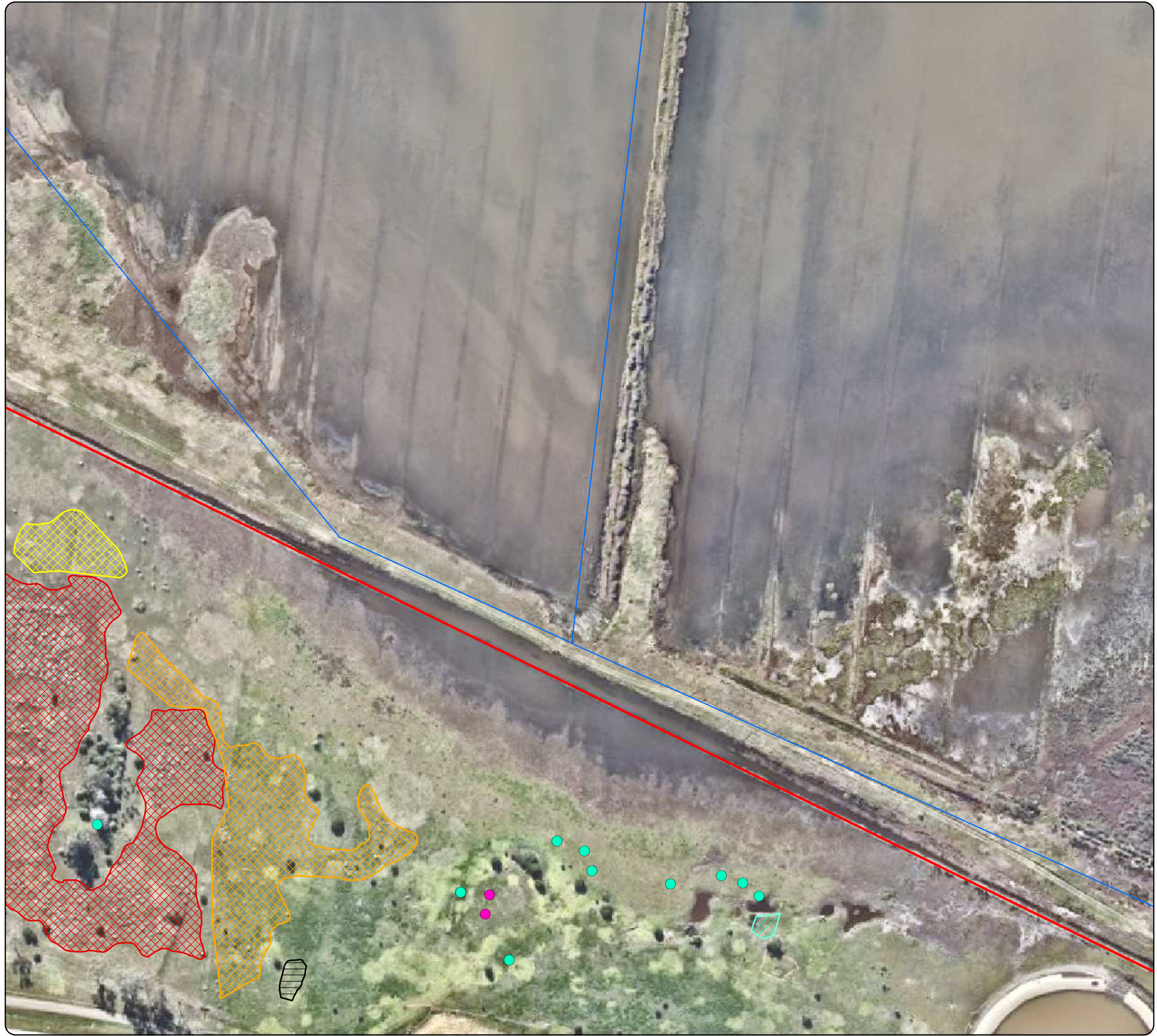







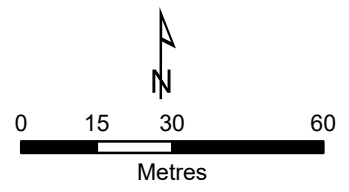
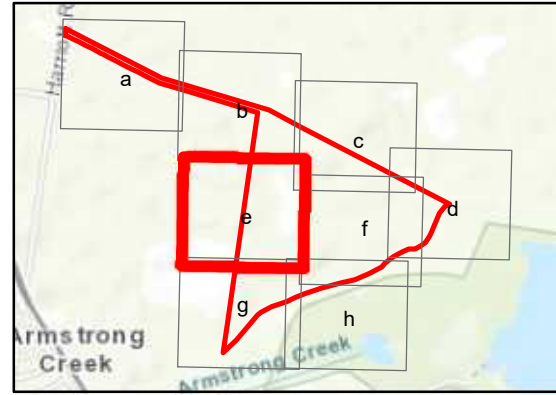


Figure 2e
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
-  Project Area
 -  African Boxthorn 5% Cover
 -  African Boxthorn 20% Cover
 -  African Boxthorn >50% Cover
 -  Artichoke Thistle >50% Cover
 -  African Boxthorn <1% Cover
 -  Gorse <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



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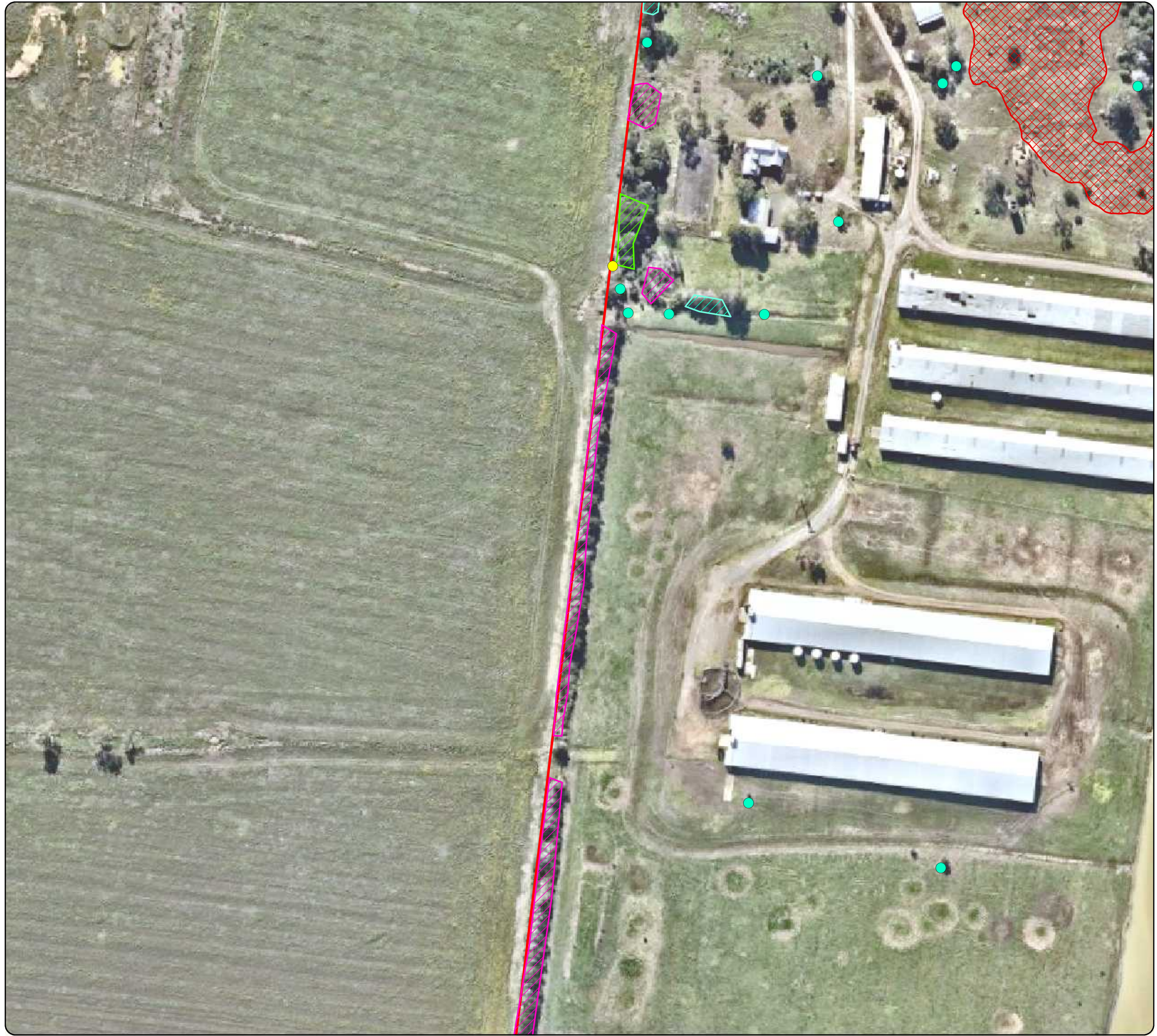
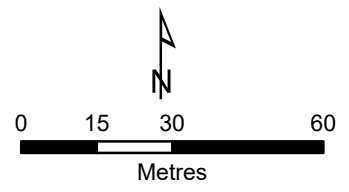
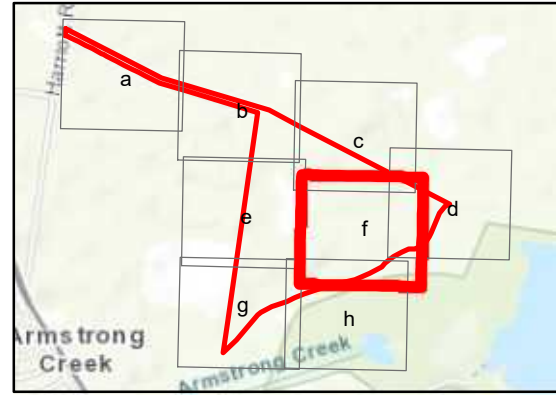


Figure 2f
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

Legend

-  Project Area
-  African Boxthorn 5% Cover
-  African Boxthorn >50% Cover
-  Artichoke Thistle 10% Cover
-  Artichoke Thistle >50% Cover
-  Spear Thistle and Bathurst Burr 5% Cover
-  African Boxthorn <1% Cover
-  Spear Thistle <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



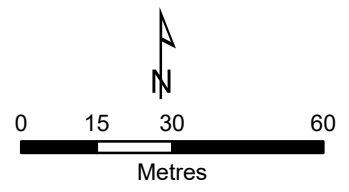
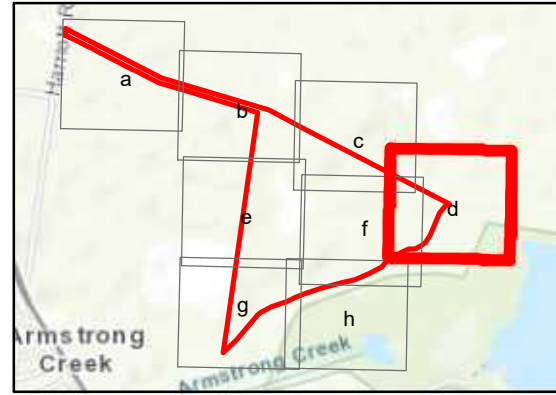
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Figure 2d
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn <1% Cover
 - Spear Thistle <1% Cover






Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500

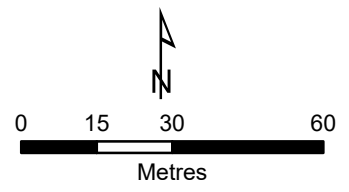
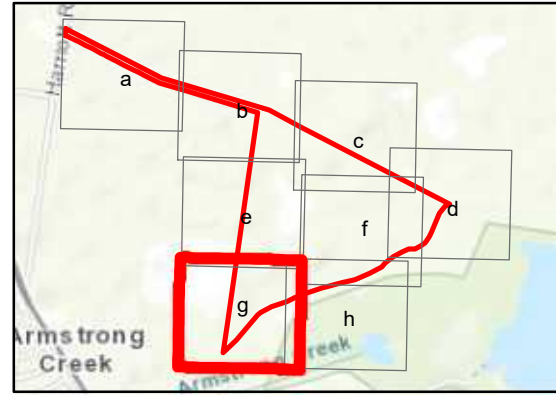


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Figure 2g
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
-  Project Area
 -  African Boxthorn 20% Cover
 -  African Boxthorn >50% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



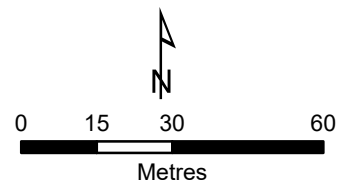
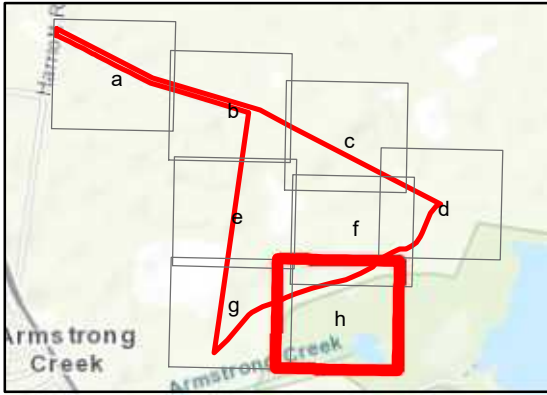
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Figure 2h
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn >50% Cover
 - African Boxthorn <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



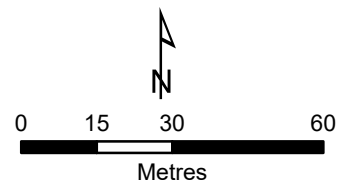
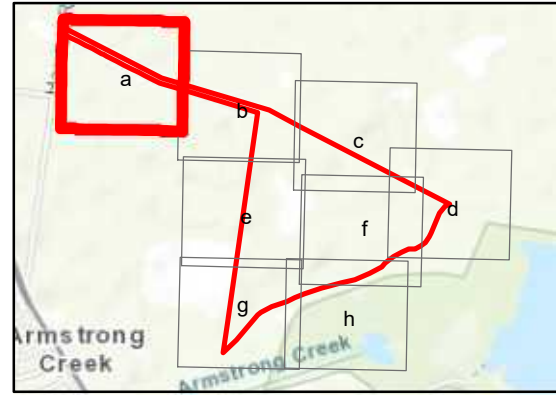
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Appendix 3b – January Weed Survey Results

Figure 2a
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

Legend
 Project Area



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500

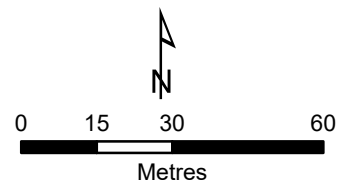
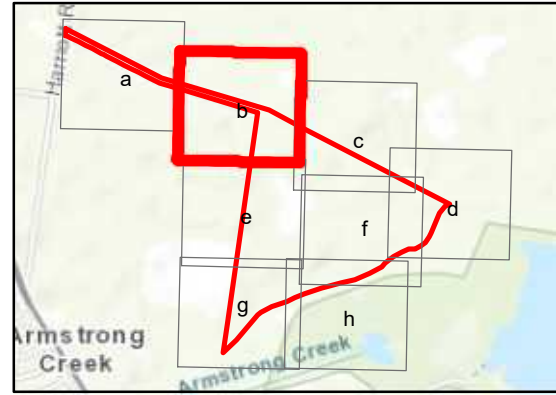


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Figure 2b
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn 5% Cover
 - African Boxthorn <1% Cover
 - Spear Thistle <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



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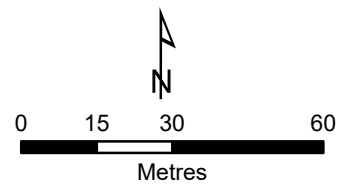
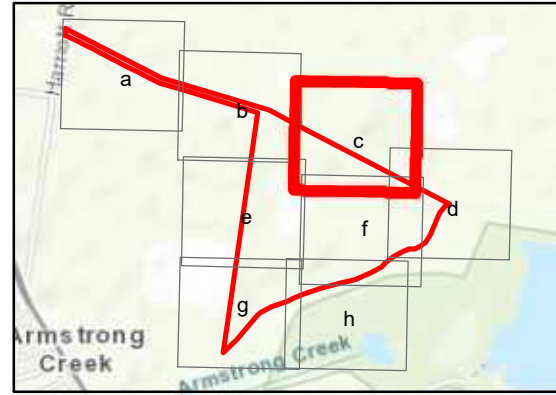
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Figure 2c
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

Legend

-  Project Area
-  African Boxthorn 5% Cover
-  African Boxthorn 10% Cover
-  African Boxthorn >50% Cover
-  Spear Thistle and African Boxthorn 5% Cover
-  Spear Thistle and Bathurst Burr 5% Cover
-  Spear Thistle 5% Cover
-  African Boxthorn <1% Cover
-  Bathurst Burr <5% Cover
-  Spear Thistle <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



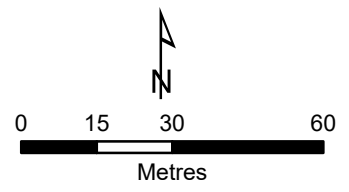
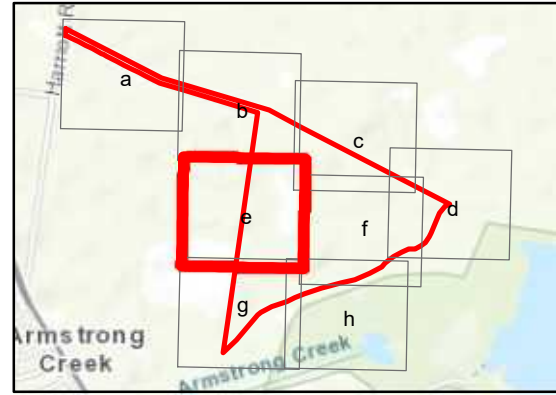
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Figure 2e
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn 5% Cover
 - African Boxthorn 10% Cover
 - African Boxthorn >50% Cover
 - Spear Thistle and African Boxthorn 5% Cover
 - African Boxthorn <1% Cover
 - Bathurst Burr <5% Cover
 - Gorse <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



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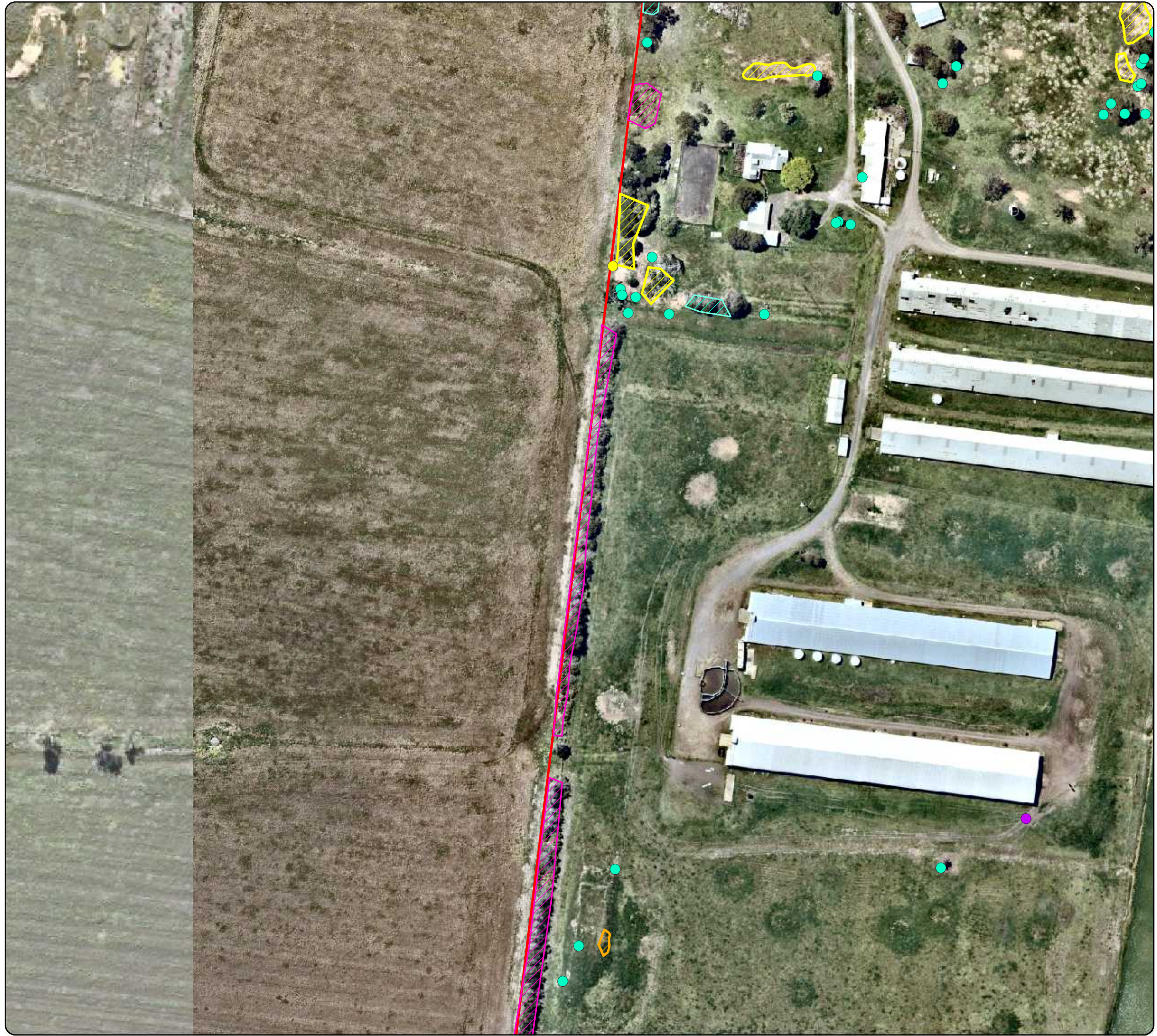
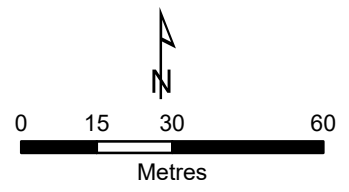
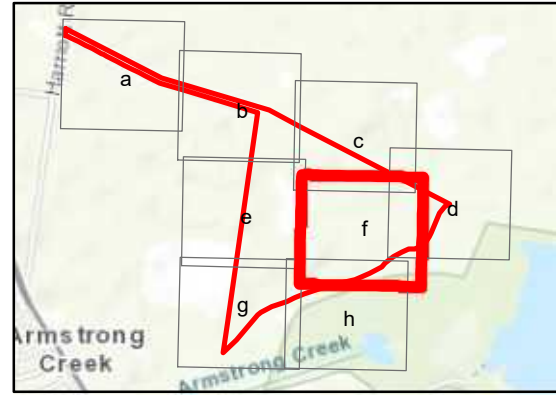


Figure 2f
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn 5% Cover
 - African Boxthorn 10% Cover
 - African Boxthorn >50% Cover
 - Spear Thistle and Bathurst Burr 5% Cover
 - Spear Thistle 5% Cover
 - Bathurst Burr 5% Cover
 - African Boxthorn <1% Cover
 - Bathurst Burr <5% Cover
 - Spear Thistle <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



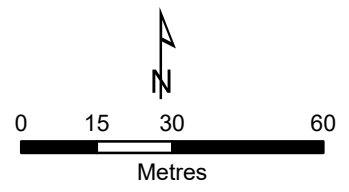
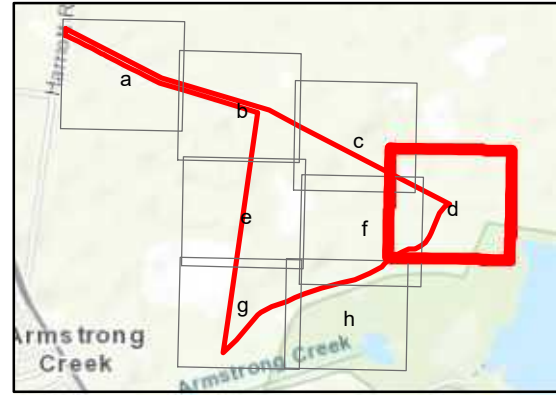
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Figure 2d
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn <1% Cover





Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500

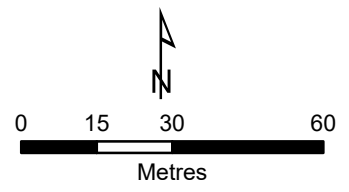
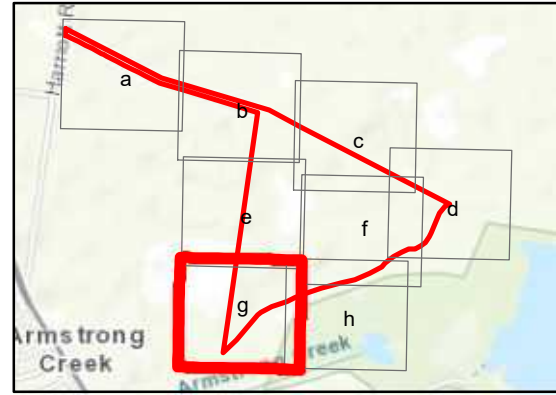


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Figure 2g
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
-  Project Area
 -  African Boxthorn 20% Cover
 -  African Boxthorn >50% Cover
 -  Spear Thistle and African Boxthorn 5% Cover
 -  African Boxthorn <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



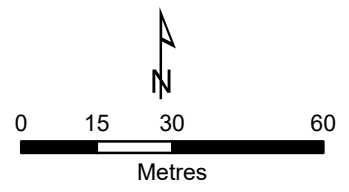
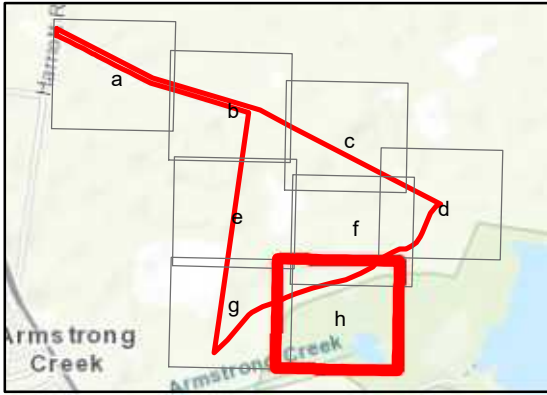
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Figure 2h
Weed Survey Results
 76-88 Groves Road, Armstrong
 Creek

- Legend**
- Project Area
 - African Boxthorn >50% Cover
 - African Boxthorn <1% Cover



Coordinate System: GDA2020 MGA Zone 55
 Map Scale when printed @ A3 1:1,500



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Appendix 4 – Notification of Non-compliance (Practical Completion notification)


Appendix 4a – Notification provided to DCCEEW

RE: 2022/09357 Residential Development at 78-88 Groves Road, Armstr...



Sarah Hill

To  epbcmonitoring

Cc  Alex Wilkinson



20/01/2026



2022-09357_GGF_Landscape_Practical Completion Letter_24092024.pdf
2 MB

Hi Chloe,

All construction and landscaping works for the creation of Frog Habitat Ponds at 78-88 Groves Road, Armstrong Creek (EPBC 2022/09357) were completed by 29 August 2025.

Please find attached letter confirming the Practical Completion of landscape construction works for the Frog Habitat Ponds.

I cannot find confirmation that prior submission of this completion letter was delivered to DCCEEW, and want to ensure that you have received this documentation. Apologies if this is a double-up.

Kind regards,

Sarah Hill | Consultant Zoologist

Ecology and Heritage Partners

T 1300 839 325 | M 0484 949 652 | shill@ehpartners.com.au | www.ehpartners.com.au

Appendix 4b – Letter of Practical Completion

Our Reference 309950

22 September 2025

To whom it may concern,

RE: Landscape Practical Completion for 78-88 Groves Road, Armstrong Creek – Frog Habitat Ponds

Spiire Australia Ltd, on behalf of JD AC NOM Pty Ltd, were engaged as the superintendent for the landscape construction works for the Frog Habitat Ponds (78–88 Groves Road, Armstrong Creek).

The works were completed in accordance with the *78–88 Groves Road Armstrong Creek Frog Ponds (Revision 0)*. A copy of these plans is provided in Appendix A.

Based on Spiire's assessment of the above documents and the construction undertaken by Australian Eco Systems (AE), Spiire is satisfied that the landscape component of these works reached Practical Completion on **29 August 2025**, in accordance with the relevant standards and approved landscape plans. Practical Completion was granted with the condition that the remaining planting would be completed in the following week, which has since been achieved; therefore, the PC date has been backdated.

The 13-week establishment and maintenance period will commence from **29 August 2025** and conclude on **28 November 2025**. Following a site inspection by Spiire and written confirmation, the 91-week extended maintenance period will commence from this date.

Spiire requires that AE shall undertake the following tasks in addition to the ongoing specified maintenance tasks:

- ▶ The landscape contractor is responsible for monthly monitoring of pond water levels. If the water level falls below the expected seasonal drawdown level as marked on the depth indicators (SDL-0.56), the contractor must promptly notify the Superintendent.
- ▶ Any required filling or topping up of ponds will be carried out by the civil contractor.
- ▶ Monitor the bird netting to ensure Growling Grass Frogs (GGF) are not entangled.
- ▶ Undertake maintenance in accordance with EHP advice, including:
 - Using longer hoses/extensions where possible to minimise vehicle movement.
 - Keeping trucks as far from the wetland edge and GGF migration path as possible.
 - Using a spotter when vehicles are in operation to watch for GGF.
 - Following disinfectant protocols for footwear and vehicles entering/exiting the site.
- ▶ Remain alert for any GGF sightings and report them immediately to the superintendent.
- ▶ Complete all other maintenance in accordance with the executed contract and the EHP_GGFCMP Final Report.
- ▶ Install the wire netting to the fence once the migration has finished (EHP to advise when complete, after which AE will arrange installation).

Spiire confirms that the landscape works for the Frog Habitat Ponds have been completed to the required standards and are now practically complete.

Yours sincerely

A handwritten signature in black ink, appearing to read 'P. Spizzica', with a long horizontal flourish extending to the right.

Paul Spizzica
Professional Landscape Architect

Appendix 5 – Water Quality Monitoring Results (Douglas Partners Pty Ltd)

Appendix 5a – October Water Quality Monitoring



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

CERTIFICATE OF ANALYSIS

Batch No: 25-65982

Final Report 311074

Page 1 of 4

Client: **Douglas Partners Pty Ltd**

Contact: **Gareth Griffiths**

Address: Unit 3 131 Shannon Avenue
Manifold Heights
VIC
3218

Laboratory

Address

Phone

Fax

Geelong Laboratory.
16 Crown Street,
South Geelong,
VIC 3220
03 5246 9400

Client Program Ref: **87044-14 Armstrong Creek**

ALS Program Ref: **DOUGLAS**

PO No: **GG170283**

Contact:

Adele Vance-Christensen
Geelong Laboratory Manager
Adele.Vance@alsglobal.com

Date Sampled:

20-Oct-2025

Date Samples Received:

20-Oct-2025

Date Issued:

29-Oct-2025

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>
Colilert (2000)	MM514	Geelong	MS Sol. Metals	WG020A	Scoresby			
TCN	WK062	Geelong	NH3 as N	WK055G	Scoresby			
NOX as N	EK058V & 059GV	Scoresby	pH	WA005	Geelong			
TKN/TP (HL)	WK061A 067A	Scoresby	Turbidity	WA045	Geelong			

Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.

Measurement Uncertainties values for your compliance results are available at this link

Signatories

<i>Name</i>	<i>Title</i>	<i>Name</i>	<i>Title</i>
Hoa T. Nguyen	Analyst	Kurt Matthies	Chemistry Coordinator
Mario Solorzano	Deputy Team Leader - Metals	Pierre Lombard	Microbiologist
Thanh Vu	Senior Chemist		

Batch No: 25-65982
 Report Number: 311074
 Client: Douglas Partners Pty Ltd
 Client Program Ref: 87044-14 Armstrong Creek



Microbiology

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type
11763913	20-10-25	NONE GRW1.0	E COLI(C)	MPN/100mL	WATER
11763914	20-10-25	NONE GRW2.0	E COLI(C)	MPN/100mL	WATER

Chemistry

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type	pH	Turbidity
11763913	20-10-25	NONE GRW1.0	PH	Units	WATER	8.2	56
11763914	20-10-25	NONE GRW2.0	PH	Units	WATER	8.2	17

Nutrients

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type	TKN/TP (HL)	TKN/TP (HL)	TCN	NH3 as N	NOX as N
11763913	20-10-25	NONE GRW1.0	TKN_HL	mg N / L	WATER	2.0	0.29	2.6	<0.1	0.56
11763914	20-10-25	NONE GRW2.0	TOTAL_P_HL	mg P / L	WATER	2.2	0.20	2.9	<0.1	0.71

Metals - Soluble

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals
11763913	20-10-25	NONE GRW1.0	SB	mg/L	WATER	<0.001	0.004	<0.001	0.15	<0.0002	0.003	<0.001	0.004
11763914	20-10-25	NONE GRW2.0	AS	mg/L	WATER	<0.001	0.005	<0.001	0.29	<0.0002	0.003	0.001	0.002

Samples not collected by ALS and are tested as received.

Batch No: 25-65982
 Report Number: 311074
 Client: Douglas Partners Pty Ltd
 Client Program Ref: 87044-14 Armstrong Creek



Metals - Soluble			Analysis:	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	
				PB mg/L	MN mg/L	HG mg/L	MO mg/L	NI mg/L	SE mg/L	AG mg/L	SN mg/L
Sample	Sampled Date	Your Ref	Component: Units: Sample Type								
11763913	20-10-25	NONE GRW1.0	WATER	<0.001	<0.001	<0.0001	0.007	0.005	<0.001	<0.001	<0.001
11763914	20-10-25	NONE GRW2.0	WATER	<0.001	0.011	<0.0001	0.007	0.005	<0.001	<0.001	<0.001

Metals - Soluble			Analysis:	MS Sol. Metals
				ZN mg/L
Sample	Sampled Date	Your Ref	Component: Units: Sample Type	
11763913	20-10-25	NONE GRW1.0	WATER	<0.001
11763914	20-10-25	NONE GRW2.0	WATER	<0.001

Samples not collected by ALS and are tested as received.

Appendix 5b – November Water Quality Monitoring



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

CERTIFICATE OF ANALYSIS

Batch No: 25-72454

Final Report

318492

Page 1 of 2

Client: Douglas Partners Pty Ltd

Contact: Gareth Griffiths

Address: Unit 3 131 Shannon Avenue
Manifold Heights
VIC
3218

Laboratory

Address

Geelong Laboratory.

16 Crown Street,
South Geelong,
VIC 3220

Phone

Fax

03 5246 9400

Contact:

Adele Vance-Christensen
Geelong Laboratory Manager
Adele.Vance@alsglobal.com

PO No: GG170283

Sampler Name: Gareth

ALS Program Ref: DOUGLAS

Program Description: Misc.

Client Ref: 87044-14 Armstrong Creek

Date Sampled: 20-Nov-2025

Date Samples Received: 20-Nov-2025

Date Issued: 02-Dec-2025

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

Analysis	Method	Laboratory	Analysis	Method	Laboratory
Colilert (2000)	MM514	Geelong	DO	# EP025	Geelong
MS Sol. Metals	WG020A	Scoresby	TCN	WK062	Geelong
NH3 as N	WK055G	Scoresby	NOX as N	EK058V & 059GV	Scoresby
pH	WA005	Geelong	TKN/TP (HL)	WK061A 067A	Scoresby
Turbidity	WA045	Geelong			

Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.

DO analysed outside of holding time, therefore is indicative only

Signatories

Name	Title	Name	Title
Alan Chung	Team Leader Metals	Adele Vance-Christensen	Geelong Laboratory Manager
Chatura Perera	Team Leader Nutrients	Hoa T. Nguyen	Analyst
Kurt Matthies	Chemistry Coordinator	Mark Sheedy	Analyst
Mario Solorzano	Deputy Team Leader - Metals	Thanh Vu	Senior Chemist

Samples not collected by ALS and are tested as received.

Calculated results are based on raw data.

Samples are tested within holding time unless otherwise stated.

Results contained within this report relate only to the samples tested.

The report shall not be reproduced, except in full.

Batch No: 25-72454
 Report Number: 318492
 Client: Douglas Partners Pty Ltd
 ALS Program Ref: DOUGLAS
 Program Description: Misc.



For holding time compliance, method uncertainty, quality control and brief method summary, please refer to accompanying QC report. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference. LOR = Limit of Reporting

Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
11892065		GRW1.0	WATER	20/11/25 09:50
11892066		GRW2.0	WATER	20/11/25 10:00

Analysis - Analyte	Sample No. Site Code Units	LOR	11892065	11892066
pH - pH, units	Units	-	8.5	8.4
DO - Dissolved Oxygen, as DO (Meter)	mg/L	<0.1	11.6	9.4
DO - Dissolved Oxygen (%)	%	<0.1	127.5	103.6
TKN/TP (HL) - Total Kjeldahl Nitrogen as N	mg N / L	<0.1	2.0	2.3
TKN/TP (HL) - Phosphorus, total as P	mg P / L	<0.05	0.14	0.10
Turbidity - Turbidity, NTU	NTU	<0.1	20	4.7
TCN - Total Nitrogen as N (Calc)	mg/L	<0.1	2.1	2.6
NH3 as N - Ammonia, as N	mg N / L	<0.1	<0.1	<0.1
NOX as N - Nitrate + Nitrite, as N	mg N / L	<0.01	0.12	0.28
MS Sol. Metals - Antimony	mg/L	<0.001	<0.001	<0.001
MS Sol. Metals - Arsenic	mg/L	<0.001	0.003	0.004
MS Sol. Metals - Beryllium	mg/L	<0.001	<0.001	<0.001
MS Sol. Metals - Boron	mg/L	<0.02	0.20	0.25
MS Sol. Metals - Cadmium	mg/L	<0.0002	<0.0002	<0.0002
MS Sol. Metals - Chromium	mg/L	<0.001	<0.001	<0.001
MS Sol. Metals - Cobalt	mg/L	<0.001	<0.001	0.001
MS Sol. Metals - Copper	mg/L	<0.001	0.003	0.003
MS Sol. Metals - Lead	mg/L	<0.001	<0.001	<0.001
MS Sol. Metals - Manganese	mg/L	<0.001	0.002	0.017
MS Sol. Metals - Mercury	mg/L	<0.0001	<0.0001	<0.0001
MS Sol. Metals - Molybdenum	mg/L	<0.001	0.006	0.007
MS Sol. Metals - Nickel	mg/L	<0.001	0.003	0.004
MS Sol. Metals - Selenium	mg/L	<0.001	<0.001	<0.001
MS Sol. Metals - Silver	mg/L	<0.001	<0.001	<0.001
MS Sol. Metals - Tin	mg/L	<0.001	<0.001	<0.001
MS Sol. Metals - Zinc	mg/L	<0.001	<0.001	0.004
Colilert (2000) - E.coli	MPN/100mL	0	10	<10

A blank space indicates no test performed.

Appendix 5c – December Water Quality Monitoring



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

CERTIFICATE OF ANALYSIS

Batch No: 25-76399

Final Report 323448

Page 1 of 4

Client: **Douglas Partners Pty Ltd**

Contact: **Gareth Griffiths**

Address: Unit 3 131 Shannon Avenue
Manifold Heights
VIC
3218

Laboratory

Address

Phone

Fax

Geelong Laboratory.
16 Crown Street,
South Geelong,
VIC 3220
03 5246 9400

Client Program Ref: **87044.14 Armstrong Creek**

ALS Program Ref: **DOUGLAS**

PO No: **GG170283**

Contact:

Daniel Darby
Client Manager
Daniel.Darby@alsglobal.com

Date Sampled:

15-Dec-2025

Date Samples Received:

15-Dec-2025

Date Issued:

22-Dec-2025

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>
Colilert (2000)	MM514	Geelong	DO	# EP025	Geelong			
MS Sol. Metals	WG020A	Scoresby	TCN	WK062	Geelong			
NH3 as N	WK055G	Scoresby	NOX as N	EK058V & 059GV	Scoresby			
pH	WA005	Geelong	TKN/TP (HL)	WK061A 067A	Scoresby			
Turbidity	WA045	Geelong						

Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.

DO analysed outside of holding time, therefore is indicative only

Measurement Uncertainties values for your compliance results are available at this link

[Signatories](#)

<i>Name</i>	<i>Title</i>	<i>Name</i>	<i>Title</i>
Alan Chung	Team Leader Metals	Chatura Perera	Team Leader Nutrients
Jessica Kelly	Chemist / Analyst	Kurt Matthies	Chemistry Coordinator
Pierre Lombard	Microbiologist	Thanh Vu	Senior Chemist

Batch No: 25-76399
 Report Number: 323448
 Client: Douglas Partners Pty Ltd
 Client Program Ref: 87044.14 Armstrong Creek



Microbiology

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type
11995192	15-12-25	NONE GRW1.0	E COLI(C)	MPN/100mL	WATER
11995193	15-12-25	NONE GRW2.0			WATER

Chemistry

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type	pH	DO	DO	Turbidity
11995192	15-12-25	NONE GRW1.0	PH	Units	WATER	8.6	11.7	129.2	24
11995193	15-12-25	NONE GRW2.0			WATER	8.6	9.6	106.1	4.1

Nutrients

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type	TKN/TP (HL)	TKN/TP (HL)	TCN	NH3 as N	NOX as N
11995192	15-12-25	NONE GRW1.0	TKN_HL	mg N / L	WATER	1.8	0.19	1.8	<0.1	0.01
11995193	15-12-25	NONE GRW2.0			WATER	2.1	0.18	2.1	<0.1	0.01

Metals - Soluble

Sample	Sampled Date	Your Ref	Component:	Units:	Sample Type	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals
11995192	15-12-25	NONE GRW1.0	SB	mg/L	WATER	<0.001	0.003	<0.001	0.16	<0.0002	<0.001	<0.001	0.003
11995193	15-12-25	NONE GRW2.0			WATER	<0.001	0.006	<0.001	0.30	<0.0002	<0.001	0.001	0.002

Samples not collected by ALS and are tested as received.

Batch No: 25-76399
 Report Number: 323448
 Client: Douglas Partners Pty Ltd
 Client Program Ref: 87044.14 Armstrong Creek



Metals - Soluble			<i>Analysis:</i>	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	
				PB mg/L	MN mg/L	HG mg/L	MO mg/L	NI mg/L	SE mg/L	AG mg/L	SN mg/L
<i>Sample</i>	<i>Sampled Date</i>	<i>Your Ref</i>	<i>Component:</i> <i>Units:</i> <i>Sample Type</i>								
11995192	15-12-25	NONE GRW1.0	WATER	<0.001	<0.001	<0.0001	0.006	0.004	<0.001	<0.001	<0.001
11995193	15-12-25	NONE GRW2.0	WATER	<0.001	0.011	<0.0001	0.007	0.005	0.001	<0.001	<0.001

Metals - Soluble			<i>Analysis:</i>	MS Sol. Metals
				ZN mg/L
<i>Sample</i>	<i>Sampled Date</i>	<i>Your Ref</i>	<i>Component:</i> <i>Units:</i> <i>Sample Type</i>	
11995192	15-12-25	NONE GRW1.0	WATER	0.003
11995193	15-12-25	NONE GRW2.0	WATER	<0.001

Samples not collected by ALS and are tested as received.

Appendix 5d – January Water Quality Monitoring



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

CERTIFICATE OF ANALYSIS

Batch No: 26-09204

Final Report 330595

Page 1 of 4

Client: **Douglas Partners Pty Ltd**

Contact: **Gareth Griffiths**

Address: Unit 3 131 Shannon Avenue
Manifold Heights
VIC
3218

Laboratory

Address

Phone

Fax

Geelong Laboratory.
16 Crown Street,
South Geelong,
VIC 3220
03 5246 9400

Client Program Ref: **87044-14 Armstrong Creek**

ALS Program Ref: **DOUGLAS**

PO No: **GG170283**

Contact:

Adele Vance-Christensen
Geelong Laboratory Manager
Adele.Vance@alsglobal.com

Date Sampled:

21-Jan-2026

Date Samples Received:

21-Jan-2026

Date Issued:

30-Jan-2026

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>
Colilert (2000)	MM514	Geelong	DO	# EP025	Geelong			
MS Sol. Metals	WG020A	Scoresby	TCN	WK062	Geelong			
NH3 as N	WK055G	Scoresby	NOX as N	EK058V & 059GV	Scoresby			
pH	WA005	Geelong	TKN/TP (HL)	WK061A 067A	Scoresby			
Turbidity	WA045	Geelong						

Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.

DO analysed outside of holding time, therefore is indicative only

Measurement Uncertainties values for your compliance results are available at this link

[Signatories](#)

<i>Name</i>	<i>Title</i>	<i>Name</i>	<i>Title</i>
Alan Chung	Team Leader Metals	Adele Vance-Christensen	Geelong Laboratory Manager
Jessica Kelly	Chemist / Analyst	Pierre Lombard	Microbiologist

Batch No: 26-09204
 Report Number: 330595
 Client: Douglas Partners Pty Ltd
 Client Program Ref: 87044-14 Armstrong Creek



Microbiology

Sample	Sampled Date	Your Ref	Analysis:	Component:	Units:	Sample Type
			Colilert (2000)	E COLI(C)	MPN/100mL	
12122199	21-01-26	GRW1				WATER
12122200	21-01-26	GRW2				WATER
12122201	21-01-26	GRS1				WATER
12122202	21-01-26	GRS2				WATER
12122203	21-01-26	BC1				WATER
12122204	21-01-26	SW1				WATER

Chemistry

Sample	Sampled Date	Your Ref	Analysis:	pH	DO	DO	Turbidity
				PH	DO METER	DO PERCENT	TURBIDITY
				Units	mg/L	%	NTU
12122199	21-01-26	GRW1		8.1	8.9	97.6	15
12122200	21-01-26	GRW2		8.6	8.8	96.7	3.6
12122201	21-01-26	GRS1		7.5	2.9	31.5	330
12122202	21-01-26	GRS2		9.8	7.3	80.0	4.8
12122203	21-01-26	BC1		8.5	7.2	79.1	70
12122204	21-01-26	SW1		7.7	8.7	95.4	31

Nutrients

Sample	Sampled Date	Your Ref	Analysis:	TKN/TP (HL)	TKN/TP (HL)	TCN	NH3 as N	NOX as N
				TKN_HL	TOTAL P_HL	TCN	AMMONIA_DA	NOX_HL
				mg N / L	mg P / L	mg/L	mg N / L	mg N / L
12122199	21-01-26	GRW1		1.5	<0.05	1.6	<0.1	0.01
12122200	21-01-26	GRW2		1.8	0.06	1.8	<0.1	<0.01
12122201	21-01-26	GRS1		7.1	1.1	7.1	0.3	0.02
12122202	21-01-26	GRS2		2.2	0.17	2.2	<0.1	0.01
12122203	21-01-26	BC1		1.1	0.15	1.1	0.2	0.01
12122204	21-01-26	SW1		14	1.5	14	0.1	<0.01

Samples not collected by ALS and are tested as received.

Batch No: 26-09204
 Report Number: 330595
 Client: Douglas Partners Pty Ltd
 Client Program Ref: 87044-14 Armstrong Creek



Metals - Soluble			Analysis:	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	
				SB mg/L	AS mg/L	BE mg/L	B mg/L	CD mg/L	CR mg/L	CO mg/L	CU mg/L
Sample	Sampled Date	Your Ref	Component: Units: Sample Type								
12122199	21-01-26	GRW1	WATER	<0.001	0.003	<0.001	0.16	<0.0002	<0.001	<0.001	0.001
12122200	21-01-26	GRW2	WATER	<0.001	0.007	<0.001	0.58	<0.0002	<0.001	0.001	0.002
12122201	21-01-26	GRS1	WATER	<0.001	0.004	<0.001	0.43	<0.0002	<0.001	0.001	<0.001
12122202	21-01-26	GRS2	WATER	<0.001	0.016	<0.001	0.31	<0.0002	<0.001	<0.001	<0.001
12122203	21-01-26	BC1	WATER	<0.001	0.001	<0.001	0.12	<0.0002	<0.001	<0.001	<0.001
12122204	21-01-26	SW1	WATER	<0.001	0.006	<0.001	0.22	<0.0002	<0.001	<0.001	0.002

Metals - Soluble			Analysis:	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	MS Sol. Metals	
				PB mg/L	MN mg/L	HG mg/L	MO mg/L	NI mg/L	SE mg/L	AG mg/L	SN mg/L
Sample	Sampled Date	Your Ref	Component: Units: Sample Type								
12122199	21-01-26	GRW1	WATER	<0.001	<0.001	<0.0001	0.006	0.004	0.002	<0.001	<0.001
12122200	21-01-26	GRW2	WATER	<0.001	0.007	<0.0001	0.008	0.005	<0.001	<0.001	<0.001
12122201	21-01-26	GRS1	WATER	<0.001	0.057	<0.0001	0.003	0.004	0.001	<0.001	<0.001
12122202	21-01-26	GRS2	WATER	<0.001	<0.001	<0.0001	0.010	0.001	<0.001	<0.001	<0.001
12122203	21-01-26	BC1	WATER	<0.001	<0.001	<0.0001	0.002	0.001	0.002	<0.001	<0.001
12122204	21-01-26	SW1	WATER	<0.001	0.044	<0.0001	0.001	0.003	<0.001	<0.001	<0.001

Metals - Soluble			Analysis:	MS Sol. Metals
				ZN mg/L
Sample	Sampled Date	Your Ref	Component: Units: Sample Type	
12122199	21-01-26	GRW1	WATER	0.002
12122200	21-01-26	GRW2	WATER	0.005
12122201	21-01-26	GRS1	WATER	<0.001
12122202	21-01-26	GRS2	WATER	<0.001
12122203	21-01-26	BC1	WATER	<0.001
12122204	21-01-26	SW1	WATER	0.009

Samples not collected by ALS and are tested as received.